09/297648

PCT/US99/01619

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

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United States Patent and Trademark Office
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ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 21 September 1999 (21.09.99)	
International application No. PCT/US99/01619	**Applicant's or agent's file reference** 2300-1486WO
International filing date (day/month/year) 28 January 1999 (28.01.99)	**Priority date** (day/month/year) 28 January 1998 (28.01.98)
Applicant WILLIAMS, Lewis, T. et al	

1. The designated Office is hereby notified of its election made:

[X] in the demand filed with the International Preliminary Examining Authority on:

23 July 1999 (23.07.99)

[ ] in a nctice effecting later election filed with the International Bureau on:

2. The election [X] was

[ ] was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

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ATENT COOPERATION TRE .Y

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NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

BLACKBURN, Robert, P.
Chiron Corporation
P.O. Box 8097
Emeryville, CA 94662-8097
ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 22 February 2000 (22.02.00)	
Applicant's or agent's file reference 2300-1486WO	**IMPORTANT NOTIFICATION**
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International publication date (day/month/year) 05 August 1999 (05.08.99)	Priority date (day/month/year) 28 January 1998 (28.01.98)
Applicant CHIRON CORPORATION et al	

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).

2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.

3. An **asterisk(*)** appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, **the attention of the applicant is directed** to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

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Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
28 Janu 1998 (28.01.98)	60/072,910	US	04 Marc 1999 (04.03.99)
24 Febr 1998 (24.02.98)	60/075,954	US	04 Marc 1999 (04.03.99)
31 Marc 1998 (31.03.98)	60/080,114	US	04 Marc 1999 (04.03.99)
03 Apri 1998 (03.04.98)	60/080,515	US	15 Apri 1999 (15.04.99)
03 Apri 1998 (03.04.98)	60/080,666	US	04 Marc 1999 (04.03.99)
21 Octo 1998 (21.10.98)	60/105,234	US	14 Febr 2000 (14.02.00)
27 Octo 1998 (27.10.98)	60/105,877	US	14 Febr 2000 (14.02.00)

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(57) Abstract

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

HUMAN GENES AND GENE EXPRESSION PRODUCTS II

Field of the Invention

The present invention relates to novel polynucleotides, particularly to novel polynucleotides of human origin that are expressed in a selected cell type, are differentially expressed in one cell type relative to another cell type (*e.g.*, in cancerous cells, or in cells of a specific tissue origin) and/or share homology to polynucleotides encoding a gene product having an identified functional domain and/or activity.

Background of the Invention

Identification of novel polynucleotides, particularly those that encode an expressed gene product, is important in the advancement of drug discovery, diagnostic technologies, and the understanding of the progression and nature of complex diseases such as cancer. Identification of genes expressed in different cell types isolated from sources that differ in disease state or stage, developmental stage, exposure to various environmental factors, the tissue of origin, the species from which the tissue was isolated, and the like is key to identifying the genetic factors that are responsible for the phenotypes associated with these various differences

This invention provides novel human polynucleotides, the polypeptides encoded by these polynucleotides, and the genes and proteins corresponding to these novel polynucleotides.

Summary of the Invention

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, *e.g.*, these genes and proteins, including probes, antisense constructs, and antibodies. The polynucleotides of the invention correspond to a polynucleotide comprising the sequence information of at least one of SEQ ID NOS: 1-3544, 3546-4510, 4512-4725, 4727-4748, and 4750-5252, which for convenience sake is referred to herein as "SEQ ID NOS:1-5252."

Accordingly, in one embodiment, the present invention features a library of polynucleotides, the library comprising the sequence information of at least one of "SEQ ID NOS:1-5252". In related aspects, the invention features a library provided on a nucleic acid array, or in a computer-readable format.

In one embodiment, the library is comprises a differentially expressed polynucleotide comprising a sequence selected from one of the differentially expressed polynucleotides disclosed herein. In specific related embodiments, the library comprises: 1) a polynucleotide that is differentially expressed in a human breast cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS:15, 36, 44, 45, 89, 146, 154, 159, 165, 172, 174, 183, 203, 261, 364, 366, 387, 419, 420, 496, 503, 510, 512, 529, 552, 560, 564, 570, 590, 606, 644, 646, 693, 707, 711, 726, 746, 754, 756, 875, 902, 921, 942, 990, 1095, 1104, 1122, 1131, 1142, 1170, 1184, 1205, 1286, 1289, 1354, 1387, 1435, 1535, 1751, 1764, 1777, 1795, 1860, 1869, 1882, 1890, 1915, 1933, 1934, 1979, 1980, 2007, 2023, 2040, 2059, 2223, 2245, 2300, 2325, 2409, 2462, 2488, 2486, and 2492; 2) a polynucleotide differentially expressed in a human colon cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS: , 33, 65, 228, 250, 252, 253, 280, 282, 355, 370, 387, 443, 460, 491, 545, 560, 581, 603, 680, 693, 703, 704, 716, 726, 746, 752, 753, 1095, 1104, 1205, 1241, 1264, 1354, 1387, 1401, 1442, 1514, 1734, 1742, 1780, 1851, 1899, 1915, 1954, 2024, 2066, 2262, and 2325; 3) a polynucleotide differentially expressed in a human lung cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS: 10, 54, 65, 171, 174, , 203, 252, 253, 254, , 285, 419, 420, 466, 491, 525, 526, 552, 571, 574, 590, 693, 700, 726, 742, 746, 861, 922, 990, 1088, 1288, 1355, 1417, 1422, 1444, 1454, 1570, 1597, 1979, 2007, 2024, 2034, 2038, 2126, and 2245; 4) a polynucleotide differentially expressed in growth factor-treated human microvascular endothelial cells (HMEC) relative to untreated HMEC, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS:648, 1899, and 648; or 5) polynucleotides that are differentially expressed across multiple libraries, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS: 65, 174, 203, 252, 253, 387, 419, 420, 491, 552, 560, 581, 590, 648, 693, 726, 746, 990, 1095, 1124, 1205, 1354, 1387, 1780, 1899, 1915, 1979, 2007, 2024, 2245, and 2325,

In another aspect, the invention features an isolated polynucleotide comprising a nucleotide sequence having at least 90% sequence identity to an identifying sequence of "SEQ ID NOS:1-5252" or a degenerate variant thereof. In related aspects, the invention features recombinant host cells and vectors comprising the polynucleotides of the invention, as well as isolated polypeptides encoded by the polynucleotides of the invention and antibodies that specifically bind such polypeptides.

In one embodiment, the invention features an isolated polynucleotide comprising a sequence encoding a polypeptide of a protein family or having a functional domain selected from the group consisting of: 4 transmembrane segments integral membrane proteins, 7 transmembrane receptors (rhodopsin family or secretin family), eukaryotic aspartyl proteases, ATPases associated with various cellular activities (AAA), Bcl-2, cyclins, DEAD box protein family, DEAD/H helicase protein family, MAP kinase kinase protein family, novel 3'5'-cyclic nucleotide phosphodiesterases, protein kinases, ras protein family, G-protein alpha subunit, phorbol esters/diacylglycerol binding proteins, protein kinase, trypsin, protein tyrosine phosphatase, wnt family of developmental signaling proteins, WW/rsp5/WWP domain containing proteins, Ank repeat, basic region plus leucine zipper domain, bromodomain, eukaryotic thiol (cysteine) protease active site, EF-hand, ETS domain, type II fibronectin collagen binding domain, thioredoxin, homeobox domain, TNFR/NGFR family cysteine-rich region, WD domain/G-beta repeats, zinc finger (C2H2 type), zinc finger (CCHC class), and zinc finger (C3HC4 type). In a specific related embodiment, the invention features a polynucleotide comprising a sequence of one of the SEQ ID NOS: listed in Table 3 or Table 20.

In another aspect, the invention features a method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, where the method comprises the step of detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where the gene product is encoded by a gene corresponding to a sequence of at least one of the differentially expressed polynucleotides disclosed herein. Detection of the differentially expressed gene product is correlated with a cancerous state of the cell from which the test sample was derived. In one embodiment, the detecting is by hybridization of the test sample to a

reference array, wherein the reference array comprises an identifying sequence of at least one of the differentially expressed polynucleotides disclosed herein.

In one embodiment of the method of the invention, the cell is a breast tissue derived cell, and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:15, 36, 44, 45, 89, 146, 154, 159, 165, 172, 174, 183, 203, 261, 364, 366, 387, 419, 420, 496, 503, 510, 512, 529, 552, 560, 564, 570, 590, 606, 644, 646, 693, 707, 711, 726, 746, 754, 756, 875, 902, 921, 942, 990, 1095, 1104, 1122, 1131, 1142, 1170, 1184, 1205, 1286, 1289, 1354, 1387, 1435, 1535, 1751, 1764, 1777, 1795, 1860, 1869, 1882, 1890, 1915, 1933, 1934, 1979, 1980, 2007, 2023, 2040, 2059, 2223, 2245, 2300, 2325, 2409, 2462, 2486 2488, and 2492.

In another embodiment of the method of the invention, the cell is a colon tissue derived cell, and differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS: 65, 228, 252, 253, 280, 355, 491, 581, 603, 680, 693, 716, 726, 746, 752, 753, 1241, 1264, 1401, 1442, 1514, 1851, 1915, 2024, 2066, 33, 250, 282, 370, 387, 443, 460, 545, 560, 703, 704, 1095, 1104, 1205, 1354, 1387, 1734, 1742, 1780, 1899, 1954, 2262, and 2325.

In yet another embodiment of the method of the invention, the cell is a lung tissue derived cell, and differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:10, 54, 65, 171, 174, 203, 252, 253, 254, 285, 419, 420, 466, 491, 525, 526, 552, 571, 574, 590, 693, 700, 726, 742, 746, 861, 922, 990, 1088, 1288, 1355, 1417, 1422, 1444, 1454, 1570, 1597, 1979, 2007, 2024, 2034, 2038, 2126, and 2245.

In another embodiment, the cell is any of a lung, breast, or colon cell and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:648 and 1899.

In still another embodiment, the cell is any of a breast, colon, or lung cell and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS: 65, 174, 203, 252, 253, 387, 419, 420, 491, 552, 560, 581, 590, 648, 693, 726, 746, 990, 1095, 1124, 1205, 1354, 1387, , 1780, 1899, 1915, 1979, 2007, 2024, 2245, and 2325.

Other aspects and embodiments of the invention will be readily apparent to the ordinarily skilled artisan upon reading the description provided herein.

Detailed Description of the Invention

The invention relates to polynucleotides comprising the disclosed nucleotide sequences, to full length cDNA, mRNA and genes corresponding to these sequences, and to polypeptides and proteins encoded by these polynucleotides and genes.

Also included are polynucleotides that encode polypeptides and proteins encoded by the polynucleotides of the Sequence Listing. The various polynucleotides that can encode these polypeptides and proteins differ because of the degeneracy of the genetic code, in that most amino acids are encoded by more than one triplet codon. The identity of such codons is well-known in this art, and this information can be used for the construction of the polynucleotides within the scope of the invention.

Polynucleotides encoding polypeptides and proteins that are variants of the polypeptides and proteins encoded by the polynucleotides and related cDNA and genes are also within the scope of the invention. The variants differ from wild type protein in having one or more amino acid substitutions that either enhance, add, or diminish a biological activity of the wild type protein. Once the amino acid change is selected, a polynucleotide encoding that variant is constructed according to the invention.

The following detailed description describes the polynucleotide compositions encompassed by the invention, methods for obtaining cDNA or genomic DNA encoding a full-length gene product, expression of these polynucleotides and genes, identification of structural motifs of the polynucleotides and genes, identification of the function of a gene product encoded by a gene corresponding to a polynucleotide of the invention, use of the provided polynucleotides as probes and in mapping and in tissue profiling, use of the corresponding polypeptides and other gene products to raise antibodies, and use of the polynucleotides and their encoded gene products for therapeutic and diagnostic purposes.

I. Polynucleotide Compositions

The scope of the invention with respect to polynucleotide compositions includes, but is not necessarily limited to, polynucleotides having a sequence set forth in any one of

"SEQ ID NOS:1-5252"; polynucleotides obtained from the biological materials described herein or other biological sources (particularly human sources) by hybridization under stringent conditions (particularly conditions of high stringency); genes corresponding to the provided polynucleotides; variants of the provided polynucleotides and their corresponding genes, particularly those variants that retain a biological activity of the encoded gene product (*e.g.*, a biological activity ascribed to a gene product corresponding to the provided polynucleotides as a result of the assignment of the gene product to a protein family(ies) and/or identification of a functional domain present in the gene product). Other nucleic acid compositions contemplated by and within the scope of the present invention will be readily apparent to one of ordinary skill in the art when provided with the disclosure here.

The invention features polynucleotides that are expressed in cells of human tissue, specifically human colon, breast, and/or lung tissue. Novel nucleic acid compositions of the invention of particular interest comprise a sequence set forth in any one of "SEQ ID NOS:1-5252" or an identifying sequence thereof. An "identifying sequence" is a contiguous sequence of residues at least about 10 nt to about 20 nt in length, usually at least about 50 nt to about 100 nt in length, that uniquely identifies a polynucleotide sequence, *e.g.*, exhibits less than 90%, usually less than about 80% to about 85% sequence identity to any contiguous nucleotide sequence of more than about 20 nt. Thus, the subject novel nucleic acid compositions include full length cDNAs or mRNAs that encompass an identifying sequence of contiguous nucleotides from any one of "SEQ ID NOS:1-5252."

The polynucleotides of the invention also include polynucleotides having sequence similarity or sequence identity. Nucleic acids having sequence similarity are detected by hybridization under low stringency conditions, for example, at 50°C and 10XSSC (0.9 M saline/0.09 M sodium citrate) and remain bound when subjected to washing at 55°C in 1XSSC. Sequence identity can be determined by hybridization under stringent conditions, for example, at 50°C or higher and 0.1XSSC (9 mM saline/0.9 mM sodium citrate). Hybridization methods and conditions are well known in the art, see, *e.g.*, U.S. Patent No. 5,707,829. Nucleic acids that are substantially identical to the provided polynucleotide sequences, *e.g.* allelic variants, genetically altered versions of the gene, *etc.*, bind to the provided polynucleotide sequences ("SEQ ID NOS:1-5252") under stringent hybridization conditions. By using probes, particularly labeled probes of DNA sequences, one can

isolate homologous or related genes. The source of homologous genes can be any species, *e.g.* primate species, particularly human; rodents, such as rats and mice; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.*

Preferably, hybridization is performed using at least 15 contiguous nucleotides of at least one of "SEQ ID NOS:1-5252." That is, when at least 15 contiguous nucleotides of one of the disclosed SEQ ID NOs. is used as a probe, the probe will preferentially hybridize with a gene or mRNA (of the biological material) comprising the complementary sequence, allowing the identification and retrieval of the nucleic acids of the biological material that uniquely hybridize to the selected probe. Probes from more than one SEQ ID NO. will hybridize with the same gene or mRNA if the cDNA from which they were derived corresponds to one mRNA. Probes of more than 15 nucleotides can be used, but 15 nucleotides represents enough sequence for unique identification.

The polynucleotides of the invention also include naturally occurring variants of the nucleotide sequences (*e.g.*, degenerate variants, allelic variants, *etc.*). Variants of the polynucleotides of the invention are identified by hybridization of putative variants with nucleotide sequences disclosed herein, preferably by hybridization under stringent conditions For example, by using appropriate wash conditions, variants of the polynucleotides of the invention can be identified where the allelic variant exhibits at most about 25-30% base pair mismatches relative to the selected polynucleotide probe. In general, allelic variants contain 15-25% base pair mismatches, and can contain as little as even 5-15%, or 2-5%, or 1-2% base pair mismatches, as well as a single base-pair mismatch.

The invention also encompasses homologs corresponding to the polynucleotides of "SEQ ID NOS:1-5252", where the source of homologous genes can be any mammalian species, *e.g.*, primate species, particularly human; rodents, such as rats; canines, felines, bovines, ovines, equines, yeast, nematodes, etc. Between mammalian species, *e.g.*, human and mouse, homologs have substantial sequence similarity, *e.g.*, at least 75% sequence identity, usually at least 90%, more usually at least 95% between nucleotide sequences. Sequence similarity is calculated based on a reference sequence, which may be a subset of a larger sequence, such as a conserved motif, coding region, flanking region, *etc.* A reference sequence will usually be at least about 18 contiguous nt long, more usually at

least about 30 nt long, and may extend to the complete sequence that is being compared. Algorithms for sequence analysis are known in the art, such as BLAST, described in Altschul *et al.*, *J. Mol. Biol.* (1990) *215*:403-10.

In general, variants of the invention have a sequence identity greater than at least about 65%, preferably at least about 75%, more preferably at least about 85%, and can be greater than at least about 90% or more as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular). For the purposes of this invention, a preferred method of calculating percent identity is the Smith-Waterman algorithm, using the following. Global DNA sequence identity must be greater than 65% as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty, 12; and gap extension penalty, 1.

The subject nucleic acids can be cDNAs or genomic DNAs, as well as fragments thereof, particularly fragments that encode a biologically active gene product and/or are useful in the methods disclosed herein (*e.g.*, in diagnosis, as a unique identifier of a differentially expressed gene of interest, *etc.*). The term "cDNA" as used herein is intended to include all nucleic acids that share the arrangement of sequence elements found in native mature mRNA species, where sequence elements are exons and 3' and 5' non-coding regions. Normally mRNA species have contiguous exons, with the intervening introns, when present, being removed by nuclear RNA splicing, to create a continuous open reading frame encoding a polypeptide of the invention.

A genomic sequence of interest comprises the nucleic acid present between the initiation codon and the stop codon, as defined in the listed sequences, including all of the introns that are normally present in a native chromosome. It can further include the 3' and 5' untranslated regions found in the mature mRNA. It can further include specific transcriptional and translational regulatory sequences, such as promoters, enhancers, *etc.*, including about 1 kb, but possibly more, of flanking genomic DNA at either the 5' and 3' end of the transcribed region. The genomic DNA can be isolated as a fragment of 100 kbp or smaller; and substantially free of flanking chromosomal sequence. The genomic DNA flanking the coding region, either 3' and 5', or internal regulatory sequences as sometimes

found in introns, contains sequences required for proper tissue, stage-specific, or disease-state specific expression.

The nucleic acid compositions of the subject invention can encode all or a part of the subject polypeptides. Double or single stranded fragments can be obtained from the DNA sequence by chemically synthesizing oligonucleotides in accordance with conventional methods, by restriction enzyme digestion, by PCR amplification, *etc.* Isolated polynucleotides and polynucleotide fragments of the invention comprise at least about 10, about 15, about 20, about 35, about 50, about 100, about 150 to about 200, about 250 to about 300, or about 350 contiguous nucleotides selected from the polynucleotide sequences as shown in "SEQ ID NOS:1-5252." For the most part, fragments will be of at least 15 nt, usually at least 18 nt or 25 nt, and up to at least about 50 contiguous nt in length or more. In a preferred embodiment, the polynucleotide molecules comprise a contiguous sequence of at least twelve nucleotides selected from the group consisting of the polynucleotides shown in "SEQ ID NOS:1-5252."

Probes specific to the polynucleotides of the invention can be generated using the polynucleotide sequences disclosed in "SEQ ID NOS:1-5252." The probes are preferably at least about 12, 15, 16, 18, 20, 22, 24, or 25 nucleotide fragment of a corresponding contiguous sequence of "SEQ ID NOS:1-5252", and can be less than 2, 1, 0.5, 0.1, or 0.05 kb in length. The probes can be synthesized chemically or can be generated from longer polynucleotides using restriction enzymes. The probes can be labeled, for example, with a radioactive, biotinylated, or fluorescent tag. Preferably, probes are designed based upon an identifying sequence of a polynucleotide of one of "SEQ ID NOS:1-5252." More preferably, probes are designed based on a contiguous sequence of one of the subject polynucleotides that remain unmasked following application of a masking program for masking low complexity (*e.g.*, XBLAST) to the sequence., *i.e.*, one would select an unmasked region, as indicated by the polynucleotides outside the poly-n stretches of the masked sequence produced by the masking program.

The polynucleotides of the subject invention are isolated and obtained in substantial purity, generally as other than an intact chromosome. Usually, the polynucleotides, either as DNA or RNA, will be obtained substantially free of other naturally-occurring nucleic acid sequences, generally being at least about 50%, usually at least about 90% pure and are

typically "recombinant", *e.g.*, flanked by one or more nucleotides with which it is not normally associated on a naturally occurring chromosome.

The polynucleotides of the invention can be provided as a linear molecule or within a circular molecule. They can be provided within autonomously replicating molecules (vectors) or within molecules without replication sequences. They can be regulated by their own or by other regulatory sequences, as is known in the art. The polynucleotides of the invention can be introduced into suitable host cells using a variety of techniques which are available in the art, such as transferrin polycation-mediated DNA transfer, transfection with naked or encapsulated nucleic acids, liposome-mediated DNA transfer, intracellular transportation of DNA-coated latex beads, protoplast fusion, viral infection, electroporation, gene gun, calcium phosphate-mediated transfection, and the like.

The subject nucleic acid compositions can be used to, for example, produce polypeptides, as probes for the detection of mRNA of the invention in biological samples (*e.g.*, extracts of human cells) to generate additional copies of the polynucleotides, to generate ribozymes or antisense oligonucleotides, and as single stranded DNA probes or as triple-strand forming oligonucleotides. The probes described herein can be used to, for example, determine the presence or absence of the polynucleotide sequences as shown in "SEQ ID NOS:1-5252" or variants thereof in a sample. These and other uses are described in more detail below.

Use of Polynucleotides to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed polynucleotides are obtained as follows. A polynucleotide having a sequence of one of "SEQ ID NOS:1-5252", or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides, is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques such as those described in U.S. Patent No. 5,654,173. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as the tissue from which the polynucleotides of the invention were isolated, as both the polynucleotides described herein and the cDNA

represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY). The choice of cell type for library construction can be made after the identity of the protein encoded by the gene corresponding to the polynucleotide of the invention is known. This will indicate which tissue and cell types are likely to express the related gene, and thus represent a suitable source for the mRNA for generating the cDNA. Where the provided polynucleotides are isolated from cDNA libraries, the libraries are prepared from mRNA of human colon cells, more preferably, human colon cancer cells, even more preferably, from a highly metastatic colon cell, Km12L4-A.

Techniques for producing and probing nucleic acid sequence libraries are described, for example, in Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY. The cDNA can be prepared by using primers based on sequence from "SEQ ID NOS:1-5252." In one embodiment, the cDNA library can be made from only poly-adenylated mRNA. Thus, poly-T primers can be used to prepare cDNA from the mRNA.

Members of the library that are larger than the provided polynucleotides, and preferably that encompass the complete coding sequence of the native message, are obtained. In order to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY. In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (*PCR Protocols: A Guide to Methods and Applications*, (1990) Academic Press, Inc.) is performed.

Genomic DNA is isolated using the provided polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the provided polynucleotides, or portions

thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides of the invention, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described herein in the Examples. Such libraries can be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome walking is performed, as described in Sambrook *et al.*, such that adjacent and overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotide sequences of the invention, corresponding full-length genes can be isolated using both classical and PCR methods to construct and probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest level. Classical methods of constructing cDNA libraries are taught in Sambrook *et al.*, *supra*. With these methods, cDNA can be produced from mRNA and inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from the full length cDNA that corresponds to the instant polynucleotides. Such PCR methods include gene trapping and RACE methods. Gene trapping entails inserting a member of a cDNA library into a vector. The vector then is denatured to produce single stranded molecules. Next, a substrate-bound probe, such a biotinylated oligo, is used to trap cDNA inserts of interest. Biotinylated probes can be linked to an avidin-bound solid substrate. PCR methods can be used to amplify the trapped cDNA. To trap sequences corresponding to the full length genes, the labeled probe sequence is based on the polynucleotide sequences of the invention. Random primers or primers specific to the library vector can be used to amplify the trapped cDNA. Such gene trapping techniques are described in Gruber *et al.*, WO

95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA.

"Rapid amplification of cDNA ends," or RACE, is a PCR method of amplifying cDNAs from a number of different RNAs. The cDNAs are ligated to an oligonucleotide linker, and amplified by PCR using two primers. One primer is based on sequence from the instant polynucleotides, for which full length sequence is desired, and a second primer comprises sequence that hybridizes to the oligonucleotide linker to amplify the cDNA. A description of this methods is reported in WO 97/19110. In preferred embodiments of RACE, a common primer is designed to anneal to an arbitrary adaptor sequence ligated to cDNA ends (Apte and Siebert, *Biotechniques* (1993) *15*:890-893; Edwards *et al.*, *Nuc. Acids Res.* (1991) *19*:5227-5232). When a single gene-specific RACE primer is paired with the common primer, preferential amplification of sequences between the single gene specific primer and the common primer occurs. Commercial cDNA pools modified for use in RACE are available.

Another PCR-based method generates full-length cDNA library with anchored ends without needing specific knowledge of the cDNA sequence. This method is described in WO 96/40998.

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II. Hundreds of promoter regions contain the "TATA" box, a sequence such as TATTA or TATAA, which is sensitive to mutations. The promoter region can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking up." If the gene is highly expressed or differentially expressed, the promoter from the gene can be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 15 contiguous nucleotides of one of "SEQ ID NOS:1-5252") up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of "SEQ ID NOS:1-5252;"; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b). Once provided with the polynucleotides disclosed herein, construction or preparation of (a) - (e) are well within the skill in the art.

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of "SEQ ID NOS:1-5252,", preferably the entire sequence of at least any one of "SEQ ID NOS:1-5252," is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired. Where the entire sequence of any one of "SEQ ID NOS:1-5252" is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of "SEQ ID NOS:1-5252."

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The provided polynucleotide (*e.g.*, a polynucleotide having a sequence of one of "SEQ ID NOS:1-5252"), the corresponding cDNA, or the full-length gene is used to express a partial or complete gene product. Constructs of polynucleotides having sequences of "SEQ ID NOS:1-5252" can be generated synthetically. Alternatively, single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides is described by, *e.g.*, Stemmer *et al., Gene (Amsterdam)* (1995) *164(1)*:49-53. In this method, assembly PCR (the synthesis of long DNA sequences from

large numbers of oligodeoxyribonucleotides (oligos)) is described. The method is derived from DNA shuffling (Stemmer, *Nature* (1994) *370*:389-391), and does not rely on DNA ligase, but instead relies on DNA polymerase to build increasingly longer DNA fragments during the assembly process.

Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY, and under current regulations described in United States Dept. of HHS, National Institute of Health (NIH) Guidelines for Recombinant DNA Research. The gene product encoded by a polynucleotide of the invention is expressed in any expression system, including, for example, bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) *275*:615; Goeddel *et al.*, *Nature* (1979) *281*:544; Goeddel *et al.*, *Nucleic Acids Res.* (1980) *8*:4057; EP 0 036,776; U.S. Patent No. 4,551,433; DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) *80*:21-25; and Siebenlist *et al.*, *Cell* (1980) *20*:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) *75*:1929; Ito *et al.*, *J. Bacteriol.* (1983) *153*:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) *6*:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) *25*:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) *132*:3459; Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) *202*:302; Das *et al.*, *J. Bacteriol.* (1984) *158*:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) *154*:737; Van den Berg *et al.*, *Bio/Technology* (1990) *8*:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) *25*:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) *5*:3376; U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) *300*:706; Davidow *et al.*, *Curr. Genet.* (1985) *10*:380; Gaillardin *et al.*, *Curr. Genet.* (1985) *10*:49; Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) *112*:284-289; Tilburn *et al.*, *Gene* (1983) *26*:205-221; Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) *81*:1470-1474; Kelly and Hynes, *EMBO J.* (1985) *4*:475479; EP 0 244,234; and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051; Friesen *et al.*, "The Regulation of Baculovirus Gene Expression", in: *The Molecular Biology Of Baculoviruses* (1986) (W. Doerfler, ed.);

EP 0 127,839; EP 0 155,476; and Vlak *et al.*, *J. Gen. Virol.* (1988) *69*:765-776; Miller *et al.*, *Ann. Rev. Microbiol.* (1988) *42*:177; Carbonell *et al.*, *Gene* (1988) *73*:409; Maeda *et al.*, *Nature* (1985) *315*:592-594; Lebacq-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) *8*:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) *82*:8844; Miyajima *et al.*, *Gene* (1987) *58*:273; and Martin *et al.*, *DNA* (1988) *7*:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology* (1988) *6*:47-55, Miller *et al.*, *Generic Engineering* (1986) *8*:277-279, and Maeda *et al.*, *Nature* (1985) *315*:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) *4*:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1982) *79*:6777, Boshart *et al.*, *Cell* (1985) *41*:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) *58*:44, Barnes and Sato, *Anal. Biochem.* (1980) *102*:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

Polynucleotide molecules comprising a polynucleotide sequence provided herein propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The partial or full-length polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide sequence can be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

The polynucleotides set forth in "SEQ ID NOS:1-5252" or their corresponding full-length polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These can include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters can be regulated or constitutive. In some situations it may be desirable to use conditionally active promoters, such as tissue-specific or developmental stage-specific promoters. These are linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art can be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to a selected polynucleotide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670.

III. Identification of Functional and Structural Motifs of Novel Genes

A. Screening Polynucleotide Sequences and Amino Acid Sequences Against Publicly Available Databases

Translations of the nucleotide sequence of the provided polynucleotides, cDNAs or full genes can be aligned with individual known sequences. Similarity with individual sequences can be used to determine the activity of the polypeptides encoded by the polynucleotides of the invention. For example, sequences that show similarity with a chemokine sequence can exhibit chemokine activities. Also, sequences exhibiting similarity with more than one individual sequence can exhibit activities that are characteristic of either or both individual sequences.

The full length sequences and fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length

sequence corresponding to provided polynucleotides. The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences corresponding to the provided polynucleotides..

Typically, a selected polynucleotide is translated in all six frames to determine the best alignment with the individual sequences. The sequences disclosed herein in the Sequence Listing are in a 5' to 3' orientation and translation in three frames can be sufficient (with a few specific exceptions as described in the Examples). These amino acid sequences are referred to, generally, as query sequences, which will be aligned with the individual sequences. Databases with individual sequences are described in "Computer Methods for Macromolecular Sequence Analysis" *Methods in Enzymology* (1996) *266*, Doolittle, Academic Press, Inc., a division of Harcourt Brace & Co., San Diego, California, USA. Databases include Genbank, EMBL, and DNA Database of Japan (DDBJ).

Query and individual sequences can be aligned using the methods and computer programs described above, and include BLAST, available over the world wide web at http://ww.ncbi.nlm.nih.gov/BLAST/. Another alignment algorithm is Fasta, available in the Genetics Computing Group (GCG) package, Madison, Wisconsin, USA, a wholly owned subsidiary of Oxford Molecular Group, Inc. Other techniques for alignment are described in Doolittle, *supra.* Preferably, an alignment program that permits gaps in the sequence is utilized to align the sequences. The Smith-Waterman is one type of algorithm that permits gaps in sequence alignments. See *Meth. Mol. Biol.* (1997) *70*: 173-187. Also, the GAP program using the Needleman and Wunsch alignment method can be utilized to align sequences. An alternative search strategy uses MPSRCH software, which runs on a MASPAR computer. MPSRCH uses a Smith-Waterman algorithm to score sequences on a massively parallel computer. This approach improves ability to identify sequences that are distantly related matches, and is especially tolerant of small gaps and nucleotide sequence errors. Amino acid sequences encoded by the provided polynucleotides can be used to search both protein and DNA databases.

Results of individual and query sequence alignments can be divided into three categories, high similarity, weak similarity, and no similarity. Individual alignment results ranging from high similarity to weak similarity provide a basis for determining polypeptide activity and/or structure. Parameters for categorizing individual results include: percentage

of the alignment region length where the strongest alignment is found, percent sequence identity, and p value.

The percentage of the alignment region length is calculated by counting the number of residues of the individual sequence found in the region of strongest alignment, *e.g.*, contiguous region of the individual sequence that contains the greatest number of residues that are identical to the residues of the corresponding region of the aligned query sequence. This number is divided by the total residue length of the query sequence to calculate a percentage. For example, a query sequence of 20 amino acid residues might be aligned with a 20 amino acid region of an individual sequence. The individual sequence might be identical to amino acid residues 5, 9-15, and 17-19 of the query sequence. The region of strongest alignment is thus the region stretching from residue 9-19, an 11 amino acid stretch. The percentage of the alignment region length is: 11 (length of the region of strongest alignment) divided by (query sequence length) 20 or 55%.

Percent sequence identity is calculated by counting the number of amino acid matches between the query and individual sequence and dividing total number of matches by the number of residues of the individual sequences found in the region of strongest alignment. Thus, the percent identity in the example above would be 10 matches divided by 11 amino acids, or approximately, 90.9%

P value is the probability that the alignment was produced by chance. For a single alignment, the p value can be calculated according to Karlin *et al.*, *Proc. Natl. Acad. Sci.* (1990) *87*:2264 and Karlin *et al.*, *Proc. Natl. Acad. Sci.* (1993) *90*. The p value of multiple alignments using the same query sequence can be calculated using an heuristic approach described in Altschul *et al.*, *Nat. Genet.* (1994) *6*:119. Alignment programs such as BLAST program can calculate the p value.

Another factor to consider for determining identity or similarity is the location of the similarity or identity. Strong local alignment can indicate similarity even if the length of alignment is short. Sequence identity scattered throughout the length of the query sequence also can indicate a similarity between the query and profile sequences. The boundaries of the region where the sequences align can be determined according to Doolittle, *supra*; BLAST or FAST programs; or by determining the area where sequence identity is highest.

High Similarity. In general, in alignment results considered to be of high similarity, the percent of the alignment region length is typically at least about 55% of total length query sequence; more typically, at least about 58%; even more typically; at least about 60% of the total residue length of the query sequence. Usually, percent length of the alignment region can be as much as about 62%; more usually, as much as about 64%; even more usually, as much as about 66%. Further, for high similarity, the region of alignment, typically, exhibits at least about 75% of sequence identity; more typically, at least about 78%; even more typically; at least about 80% sequence identity. Usually, percent sequence identity can be as much as about 82%; more usually, as much as about 84%; even more usually, as much as about 86%.

The p value is used in conjunction with these methods. If high similarity is found, the query sequence is considered to have high similarity with a profile sequence when the p value is less than or equal to about 10^{-2}; more usually; less than or equal to about 10^{-3}; even more usually; less than or equal to about 10^{-4}. More typically, the p value is no more than about 10^{-5}; more typically; no more than or equal to about 10^{-10}; even more typically; no more than or equal to about 10^{-15} for the query sequence to be considered high similarity.

Weak Similarity. In general, where alignment results considered to be of weak similarity, there is no minimum percent length of the alignment region nor minimum length of alignment. A better showing of weak similarity is considered when the region of alignment is, typically, at least about 15 amino acid residues in length; more typically, at least about 20; even more typically; at least about 25 amino acid residues in length. Usually, length of the alignment region can be as much as about 30 amino acid residues; more usually, as much as about 40; even more usually, as much as about 60 amino acid residues. Further, for weak similarity, the region of alignment, typically, exhibits at least about 35% of sequence identity; more typically, at least about 40%; even more typically; at least about 45% sequence identity. Usually, percent sequence identity can be as much as about 50%; more usually, as much as about 55%; even more usually, as much as about 60%.

If low similarity is found, the query sequence is considered to have weak similarity with a profile sequence when the p value is usually less than or equal to about 10^{-2}; more usually; less than or equal to about 10^{-3}; even more usually; less than or equal to about 10^{-4}. More

typically, the p value is no more than about 10^{-5}; more usually; no more than or equal to about 10^{-10}; even more usually; no more than or equal to about 10^{-15} for the query sequence to be considered weak similarity.

Similarity Determined by Sequence Identity Alone. Sequence identity alone can be used to determine similarity of a query sequence to an individual sequence and can indicate the activity of the sequence. Such an alignment, preferably, permits gaps to align sequences. Typically, the query sequence is related to the profile sequence if the sequence identity over the entire query sequence is at least about 15%; more typically, at least about 20%; even more typically, at least about 25%; even more typically, at least about 50%. Sequence identity alone as a measure of similarity is most useful when the query sequence is usually, at least 80 residues in length; more usually, 90 residues; even more usually, at least 95 amino acid residues in length. More typically, similarity can be concluded based on sequence identity alone when the query sequence is preferably 100 residues in length; more preferably, 120 residues in length; even more preferably, 150 amino acid residues in length.

Determining Activity from Alignments with Profile and Multiple Aligned Sequences. Translations of the provided polynucleotides can be aligned with amino acid profiles that define either protein families or common motifs. Also, translations of the provided polynucleotides can be aligned to multiple sequence alignments (MSA) comprising the polypeptide sequences of members of protein families or motifs. Similarity or identity with profile sequences or MSAs can be used to determine the activity of the gene products (*e.g.*, polypeptides) encoded by the provided polynucleotides or corresponding cDNA or genes. For example, sequences that show an identity or similarity with a chemokine profile or MSA can exhibit chemokine activities.

Profiles can designed manually by (1) creating an MSA, which is an alignment of the amino acid sequence of members that belong to the family and (2) constructing a statistical representation of the alignment. Such methods are described, for example, in Birney *et al.*, *Nucl. Acid Res.* (1996) *24(14)*: 2730-2739. MSAs of some protein families and motifs are publicly available. For example, http://genome.wustl.edu/Pfam/ includes MSAs of 547 different families and motifs. These MSAs are described also in Sonnhammer *et al.*, *Proteins* (1997) *28*: 405-420. Other sources over the world wide web

include the site at http://www.embl-heidelberg.de/argos/ali/ali.html; alternatively, a message can be sent to ALI@EMBL-HEIDELBERG.DE for the information. A brief description of these MSAs is reported in Pascarella *et al.*, *Prot. Eng.* (1996) *9(3)*:249-251. Techniques for building profiles from MSAs are described in Sonnhammer *et al.*, *supra*; Birney *et al.*, *supra*; and "Computer Methods for Macromolecular Sequence Analysis," *Methods in Enzymology* (1996) *266*, Doolittle, Academic Press, Inc., a division of Harcourt Brace & Co., San Diego, California, USA.

Similarity between a query sequence and a protein family or motif can be determined by (a) comparing the query sequence against the profile and/or (b) aligning the query sequence with the members of the family or motif. Typically, a program such as Searchwise is used to compare the query sequence to the statistical representation of the multiple alignment, also known as a profile. The program is described in Birney *et al.*, *supra*. Other techniques to compare the sequence and profile are described in Sonnhammer *et al.*, *supra* and Doolittle, *supra*.

Next, methods described by Feng *et al.*, *J. Mol. Evol.* (1987) *25*:351 and Higgins *et al.*, *CABIOS* (1989) *5*:151 can be used align the query sequence with the members of a family or motif, also known as a MSA. Computer programs, such as PILEUP, can be used. See Feng *et al.*, *infra*. In general, the following factors are used to determine if a similarity between a query sequence and a profile or MSA exists: (1) number of conserved residues found in the query sequence, (2) percentage of conserved residues found in the query sequence, (3) number of frameshifts, and (4) spacing between conserved residues.

Some alignment programs that both translate and align sequences can make any number of frameshifts when translating the nucleotide sequence to produce the best alignment. The fewer frameshifts needed to produce an alignment, the stronger the similarity or identity between the query and profile or MSAs. For example, a weak similarity resulting from no frameshifts can be a better indication of activity or structure of a query sequence, than a strong similarity resulting from two frameshifts. Preferably, three or fewer frameshifts are found in an alignment; more preferably two or fewer frameshifts; even more preferably, one or fewer frameshifts; even more preferably, no frameshifts are found in an alignment of query and profile or MSAs.

Conserved residues are those amino acids found at a particular position in all or some of the family or motif members. For example, most chemokines contain four conserved cysteines. Alternatively, a position is considered conserved if only a certain class of amino acids is found in a particular position in all or some of the family members. For example, the N-terminal position can contain a positively charged amino acid, such as lysine, arginine, or histidine.

Typically, a residue of a polypeptide is conserved when a class of amino acids or a single amino acid is found at a particular position in at least about 40% of all class members; more typically, at least about 50%; even more typically, at least about 60% of the members. Usually, a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif; more usually, at least about 80%; even more usually, at least about 90%; even more usually, at least about 95%.

A residue is considered conserved when three unrelated amino acids are found at a particular position in the some or all of the members; more usually, two unrelated amino acids. These residues are conserved when the unrelated amino acids are found at particular positions in at least about 40% of all class member; more typically, at least about 50%; even more typically, at least about 60% of the members. Usually, a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif; more usually, at least about 80%; even more usually, at least about 90%; even more usually, at least about 95%.

A query sequence has similarity to a profile or MSA when the query sequence comprises at least about 25% of the conserved residues of the profile or MSA; more usually, at least about 30%; even more usually; at least about 40%. Typically, the query sequence has a stronger similarity to a profile sequence or MSA when the query sequence comprises at least about 45% of the conserved residues of the profile or MSA; more typically, at least about 50%; even more typically; at least about 55%.

B. Screening Polynucleotide and Amino Acid Sequences Against Protein Profiles

The identify and function of the gene that correlates to a polynucleotide described herein can be determined by screening the polynucleotides or their corresponding amino acid sequences against profiles of protein families. Such profiles focus on common

structural motifs among proteins of each family. Publicly available profiles are described above in Section IVA. Additional or alternative profiles are described below.

In comparing a novel polynucleotide with known sequences, several alignment tools are available. Examples include PileUp, which creates a multiple sequence alignment, and is described in Feng *et al.*, *J. Mol. Evol.* (1987) *25*:351. Another method, GAP, uses the alignment method of Needleman *et al.*, *J. Mol. Biol.* (1970) *48*:443. GAP is best suited for global alignment of sequences. A third method, BestFit, functions by inserting gaps to maximize the number of matches using the local homology algorithm of Smith *et al.*, *Adv. Appl. Math.* (1981) *2*:482.

C. Identification of Secreted & Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of particular interest. For example, levels of secreted polypeptides can be assayed in body fluids that are convenient, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides. Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures. Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure. Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, *Proc. Natl. Acad. Sci. USA* (1981) *78*:3824-3828; Kyte & Doolittle, *J. Mol. Biol.* (1982) *157*: 105-132; and RAOAR algorithm, Degli Esposti *et al.*, *Eur. J. Biochem.* (1990) *190*: 207-219.

Another method of identifying secreted and membrane-bound polypeptides is to translate the polynucleotides of the invention in all six frames and determine if at least 8

contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

IV. Identification of the Function of an Expression Product of a Full-Length Gene Corresponding to a Polynucleotide

Ribozymes, antisense constructs, and dominant negative mutants can be used to determine function of the expression product of a gene corresponding to a polynucleotide provided herein. These methods and compositions are particularly useful where the provided novel polynucleotide exhibits no significant or substantial homology to a sequence encoding a gene of known function. Antisense molecules and ribozymes can be constructed from synthetic polynucleotides. Typically, the phosphoramidite method of oligonucleotide synthesis is used. See Beaucage *et al.*, *Tet. Lett.* (1981) *22*:1859 and U.S. Patent No. 4,668,777. Automated devices for synthesis are available to create oligonucleotides using this chemistry. Examples of such devices include Biosearch 8600, Models 392 and 394 by Applied Biosystems, a division of Perkin-Elmer Corp., Foster City, California, USA; and Expedite by Perceptive Biosystems, Framingham, Massachusetts, USA. Synthetic RNA, phosphate analog oligonucleotides, and chemically derivatized oligonucleotides can also be produced, and can be covalently attached to other molecules. RNA oligonucleotides can be synthesized, for example, using RNA phosphoramidites. This method can be performed on an automated synthesizer, such as Applied Biosystems, Models 392 and 394, Foster City, California, USA. See Applied Biosystems User Bulletin 53 and Ogilvie *et al.*, *Pure & Applied Chem.* (1987) *59*:325.

Phosphorothioate oligonucleotides can also be synthesized for antisense construction. A sulfurizing reagent, such as tetraethylthiruam disulfide (TETD) in acetonitrile can be used to convert the internucleotide cyanoethyl phosphite to the phosphorothioate triester within 15 minutes at room temperature. TETD replaces the iodine reagent, while all other reagents used for standard phosphoramidite chemistry

remain the same. Such a synthesis method can be automated using Models 392 and 394 by Applied Biosystems, for example.

Oligonucleotides of up to 200 nucleotides can be synthesized, more typically, 100 nucleotides, more typically 50 nucleotides; even more typically 30 to 40 nucleotides. These synthetic fragments can be annealed and ligated together to construct larger fragments. See, for example, Sambrook *et al.*, *supra.*

A. Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al., Current Opin. Struct. Biol.* (1996) *6*:527. Ribozymes can also be prepared and used as described in Long *et al., FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) *61*:641; Perrotta *et al., Biochem.* (1992) *31*:16; Ojwang *et al., Proc. Natl. Acad. Sci. (USA)* (1992) *89*:10802; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al., Nucleic Acid Res.* (1989) *17*:7059. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al., Nucleic Acids Res.* (1989) *17*:7059. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) *20*:2835. Ribozymes can also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) *15(3)*:273.

The hybridizing region of the ribozyme can be modified or can be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) *17*:6959. The basic structure of the ribozymes can also be chemically altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) *245*:1.

Using the polynucleotide sequences of the invention and methods known in the art, ribozymes are designed to specifically bind and cut the corresponding mRNA species. Ribozymes thus provide a means to inhibit the expression of any of the proteins encoded by the disclosed polynucleotides or their full-length genes. The full-length gene need not be known in order to design and use specific inhibitory ribozymes. In the case of a polynucleotide or full-length cDNA of unknown function, ribozymes corresponding to that nucleotide sequence can be tested in vitro for efficacy in cleaving the target transcript. Those ribozymes that effect cleavage in vitro are further tested in vivo. The ribozyme can also be used to generate an animal model for a disease, as described in Birikh *et al.*, *supra*. An effective ribozyme is used to determine the function of the gene of interest by blocking its transcription and detecting a change in the cell. Where the gene is found to be a mediator in a disease, an effective ribozyme is designed and delivered in a gene therapy for blocking transcription and expression of the gene.

Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a partial polynucleotide sequence provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by

such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

B. Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected polynucleotide sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense strand as the transcribed strand. Antisense polynucleotides based on the disclosed polynucleotides will bind and/or interfere with the translation of mRNA comprising a sequence complementary to the antisense polynucleotide. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide upon which the antisense construct is based. The protein is isolated and identified using routine biochemical methods.

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

C. Dominant Negative Mutations

As an alternative method for identifying function of the gene corresponding to a polynucleotide disclosed herein, dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants (see, *e.g.*,

Herskowitz, *Nature* (1987) *329*:219). Such techniques can be used to create loss of function mutations, which are useful for determining protein function.

V. Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope a polypeptide encoded by a polynucleotide having the sequence of any one of "SEQ ID NOS:1-5252" or a variant thereof.

In general, the term "polypeptide" as used herein refers to both the full length polypeptide encoded by the recited polynucleotide, the polypeptide encoded by the gene represented by the recited polynucleotide, as well as portions or fragments thereof. "Polypeptides" also includes variants of the naturally occurring proteins, where such variants are homologous or substantially similar to the naturally occurring protein, and can be of an origin of the same or different species as the naturally occurring protein (*e.g.*, human, murine, or some other species that naturally expresses the recited polypeptide, usually a mammalian species). In general, variant polypeptides have a sequence that has at least about 80%, usually at least about 90%, and more usually at least about 98% sequence identity with a differentially expressed polypeptide of the invention, as measured by BLAST using the parameters described above. The variant polypeptides can be naturally or non-naturally glycosylated, *i.e.*, the polypeptide has a glycosylation pattern that differs from the glycosylation pattern found in the corresponding naturally occurring protein.

The invention also encompasses homologs of the disclosed polypeptides (or fragments thereof) where the homologs are isolated from other species, *i.e.* other animal or plant species, where such homologs, usually mammalian species, *e.g.* rodents, such as mice, rats; domestic animals, *e.g.*, horse, cow, dog, cat; and humans. By homolog is meant a polypeptide having at least about 35%, usually at least about 40% and more usually at least about 60% amino acid sequence identity a particular differentially expressed protein as identified above, where sequence identity is determined using the BLAST algorithm, with the parameters described *supra*.

In general, the polypeptides of the subject invention are provided in a non-naturally occurring environment, *e.g.* are separated from their naturally occurring environment. In certain embodiments, the subject protein is present in a composition that is enriched for the protein as compared to a control. As such, purified polypeptide is provided, where by purified is meant that the protein is present in a composition that is substantially free of non-differentially expressed polypeptides, where by substantially free is meant that less than 90%, usually less than 60% and more usually less than 50% of the composition is made up of non-differentially expressed polypeptides.

Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Variants can be designed so as to retain biological activity of a particular region of the protein (*e.g.*, a functional domain and/or, where the polypeptide is a member of a protein family, a region associated with a consensus sequence). In a non-limiting example, Osawa *et al.*, *Biochem. Mol. Int.* (1994) *34*:1003, discusses the actin binding region of a protein from several different species. The actin binding regions of the these species are considered homologous based on the fact that they have amino acids that fall within "homologous residue groups." Homologous residues are judged according to the following groups (using single letter amino acid designations): STAG; ILVMF; HRK; DEQN; and FYW. For example, and S, a T, an A or a G can be in a position and the function (in this case actin binding) is retained.

Additional guidance on amino acid substitution is available from studies of protein evolution. Go *et al*, *Int. J. Peptide Protein Res.* (1980) *15*:211, classified amino acid residue sites as interior or exterior depending on their accessibility. More frequent

substitution on exterior sites was confirmed to be general in eight sets of homologous protein families regardless of their biological functions and the presence or absence of a prosthetic group. Virtually all types of amino acid residues had higher mutabilities on the exterior than in the interior. No correlation between mutability and polarity was observed of amino acid residues in the interior and exterior, respectively. Amino acid residues were classified into one of three groups depending on their polarity: polar (Arg, Lys, His, Gln, Asn, Asp, and Glu); weak polar (Ala, Pro, Gly, Thr, and Ser), and nonpolar (Cys, Val, Met, Ile, Leu, Phe, Tyr, and Trp). Amino acid replacements during protein evolution were very conservative: 88% and 76% of them in the interior or exterior, respectively, were within the same group of the three. Inter-group replacements are such that weak polar residues are replaced more often by nonpolar residues in the interior and more often by polar residues on the exterior.

Additional guidance for production of polypeptide variants is provided in Querol *et al.*, *Prot. Eng.* (1996) *9*:265, which provides general rules for amino acid substitutions to enhance protein thermostability. New glycosylation sites can be introduced as discussed in Olsen and Thomsen, *J. Gen. Microbiol.* (1991) *137*:579. An additional disulfide bridge can be introduced, as discussed by Perry and Wetzel, *Science* (1984) *226*:555; Pantoliano *et al.*, *Biochemistry* (1987) *26*:2077; Matsumura *et al.*, *Nature* (1989) *342*:291; Nishikawa *et al.*, *Protein Eng.* (1990) *3*:443; Takagi *et al.*, *J. Biol. Chem.* (1990) *265*:6874; Clarke *et al.*, *Biochemistry* (1993) *32*:4322; and Wakarchuk *et al.*, *Protein Eng.* (1994) *7*:1379. Metal binding sites can be introduced, according to Toma *et al.*, *Biochemistry* (1991) *30*:97, and Haezerbrouck *et al.*, *Protein Eng.* (1993) *6*:643. Substitutions with prolines in loops can be made according to Masul *et al.*, *Appl. Env. Microbiol.* (1994) *60*:3579; and Hardy *et al.*, *FEBS Lett. 317*:89.

Cysteine-depleted muteins are considered variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, which discloses substitution of cysteines with other amino acids, and methods for assaying biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

Variants also include fragments of the polypeptides disclosed herein, particularly biologically active fragments and/or fragments corresponding to functional domains. Fragments of interest will typically be at least about 10 aa to at least about 15 aa in length, usually at least about 50 aa in length, and can be as long as 300 aa in length or longer, but will usually not exceed about 1000 aa in length, where the fragment will have a stretch of amino acids that is identical to a polypeptide encoded by a polynucleotide having a sequence of any "SEQ ID NOS:1-5252", or a homolog thereof.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

VI. Computer-Related Embodiments

In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of the same or similar type that is not substantially affected by disease). For example, a polynucleotide sequence in a library can be a polynucleotide that represents an mRNA, polypeptide, or other gene product encoded by the polynucleotide, that is either overexpressed or underexpressed in a breast ductal cell affected by cancer relative to a normal (*i.e.*, substantially disease-free) breast cell.

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form includes an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed)

as between, for example, i) a cancerous cell and a normal cell; ii) a cancerous cell and a dysplastic cell; iii) a cancerous cell and a cell affected by a disease or condition other than cancer; iv) a metastatic cancerous cell and a normal cell and/or non-metastatic cancerous cell; v) a malignant cancerous cell and a non-malignant cancerous cell (or a normal cell) and/or vi) a dysplastic cell relative to a normal cell. Other combinations and comparisons of cells affected by various diseases or stages of disease will be readily apparent to the ordinarily skilled artisan. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in greater detail below.

The polynucleotide libraries of the subject invention include sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of "SEQ ID NOS:1-5252." By plurality is meant at least 2, usually at least 3 and can include up to all of "SEQ ID NOS:1-5252." The length and number of polynucleotides in the library will vary with the nature of the library, *e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.* the nucleic acid sequences of any of the polynucleotides of "SEQ ID NOS:1-5252," can be recorded on computer readable media, *e.g.* any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information.

"Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.* word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc*, including, but not limited to, for example, search program software, *etc.*.).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul *et al.*, *supra.*) and BLAZE (Brutlag *et al. Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

"Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif with the stored sequence information. Search means are used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.* MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any DNA or amino acid

sequence of six or more nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nucleotide residues.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but arc not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks fragments of the genome possessing varying degrees of homology to a target sequence or target motif. Such presentation provides a skilled artisan with a ranking of sequences and identifies the degree of sequence similarity contained in the identified fragment.

A variety of comparing means can be used to compare a target sequence or target motif with the data storage means to identify sequence fragments of the genome. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention.

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of "SEQ ID NOS:1-5252," *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of "SEQ ID NOS:1-5252"is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of

skill in the art, including those described in 5,242,974; 5,384,261; 5,405,783; 5,412,087; 5,424,186; 5,429,807; 5,436,327; 5,445,934; 5,472,672; 5,527,681; 5,529,756; 5,545,531; 5,554,501; 5,556,752; 5,561,071; 5,599,895; 5,624,711; 5,639,603; 5,658,734; WO 93/17126; WO 95/11995; WO 95/35505; EP 742287; and EP 799897. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by "SEQ ID NOS:1-5252."

VII. Utilities

A. Use of Polynucleotide Probes in Mapping, and in Tissue Profiling

Polynucleotide probes, generally comprising at least 12 contiguous nucleotides of a polynucleotide as shown in the Sequence Listing, are used for a variety of purposes, such as chromosome mapping of the polynucleotide and detection of transcription levels. Additional disclosure about preferred regions of the disclosed polynucleotide sequences is found in the Examples. A probe that hybridizes specifically to a polynucleotide disclosed herein should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

Probes in Detection of Expression Levels. Nucleotide probes are used to detect expression of a gene corresponding to the provided polynucleotide. In Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used *in vivo* for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels can be used such as chromophores, fluors, and enzymes. Other examples of nucleotide hybridization assays are described in WO92/02526 and U.S. Patent No. 5,124,246.

The Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids (see, *e.g.*, Mullis *et al.*, *Meth. Enzymol.* (1987) *155*:335; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202). Two primer polynucleotides nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers can be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping. Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the polynucleotide-related gene when particular syndromes or diseases map to the same chromosome. For example, use of polynucleotide probes in identification and quantification of nucleic acid sequence aberrations is described in U.S. Patent No. 5,783,387.

For example, fluorescence in situ hybridization (FISH) on normal metaphase spreads facilitates comparative genomic hybridization to allow total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Curr. Opin. Biotechnol.* (1994) *8*:70; Kallioniemi *et al.*, *Sem. Cancer Biol.* (1993) *4*:41; Valdes

et al., *Methods in Molecular Biology* (1997) *68*:1, Boultwood, ed., Human Press, Totowa, NJ.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al., Advances in Genetics*, (1995) *33*:63-99; Walter *et al., Nature Genetics* (1994) *7*:22; Walter and Goodfellow, *Trends in Genetics* (1992) *9*:352. Panels for radiation hybrid mapping are available from Research Genetics, Inc., Huntsville, Alabama, USA. Databases for markers using various panels are available via the world wide web at http:/F/shgc-www.stanford.edu; and http://www-genome.wi.mit.edu/cgi-bin/contig/rhmapper.pl. The statistical program RHMAP can be used to construct a map based on the data from radiation hybridization with a measure of the relative likelihood of one order versus another. RHMAP is available via the world wide web at http://www.sph.umich.edu/group/statgen/software.

In addition, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides based on the polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a provided polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Tissue Typing or Profiling. Expression of specific mRNA corresponding to the provided polynucleotides can vary in different cell types and can be tissue-specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of the corresponding cDNA or mRNA.

For example, a metastatic lesion is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a

polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods can be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms. A polynucleotide of the invention will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. Particular polymorphic forms of the provided polynucleotides can be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to allele-specific probes.

B. Antibody Production

Expression products of a polynucleotide of the invention, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. For polynucleotides to which a corresponding gene has not been assigned, this provides an additional method of identifying the corresponding gene. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polypeptide encoded by the polynucleotide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotides of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally, subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits,

sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to another method known in the art, the selected polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for polypeptides encoded by a selected polynucleotide are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies can be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polypeptides encoded by the provided polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically polypeptides of the invention do not bind to other proteins in immunochemical assays at detectable levels and can immunoprecipitate the specific polypeptide from solution.

To test for the presence of serum antibodies to the polypeptide of the invention in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which the corresponding selected polypeptide or fusion protein is bound. The bound antibodies can then be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies, according to methods well known in the art.

C. Use of Polynucleotides to Construct Arrays for Diagnostics

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of an encoded protein. Arrays can be created by spotting polynucleotide probes onto a substrate (*e.g.*, glass, nitrocelllose, *etc.*) in a two-dimensional matrix or array having bound probes. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. Samples of polynucleotides can be detectably labeled (*e.g.*, using radioactive or fluorescent labels) and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the unbound portion of the sample is washed away. Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

As discussed in some detail above, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the provided polynucleotides are differentially expressed between a test cell and control cell (*e.g.*, cancer cells and normal cells). For example, high expression of a particular message in a cancer cell, which is not observed in a corresponding normal cell, can indicate a cancer specific protein. Exemplary uses of arrays are further described in, for example, Pappalarado *et al.*, *Sem. Radiation Oncol.* (1998) *8*:217; and Ramsay *Nature Biotechnol.* (1998) *16*:40.

D. Differential Expression

The polynucleotides of the invention can also be used to detect differences in expression levels between two cells, *e.g.*, as a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families, the

choice of tissue can be selected according to the putative biological function. In general, the expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The tissue suspected of being abnormal or diseased can be derived from a different tissue type of the human, but preferably it is derived from the same tissue type; for example an intestinal polyp or other abnormal growth should be compared with normal intestinal tissue. The normal tissue can be the same tissue as that of the test sample, or any normal tissue of the patient, especially those that express the polynucleotide-related gene of interest (*e.g.*, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon). A difference between the polynucleotide-related gene, mRNA, or protein in the two tissues which are compared, for example in molecular weight, amino acid or nucleotide sequence, or relative abundance, indicates a change in the gene, or a gene which regulates it, in the tissue of the human that was suspected of being diseased. Examples of detection of differential expression and its use in diagnosis of cancer are described in U.S. Patent Nos. 5,688,641 and 5,677,125.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes can be sequenced, and the sequence of the gene in the tissue suspected of being diseased compared with the gene sequence in the normal tissue. The genes corresponding to a provided polynucleotide, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to detectably labeled nucleotide probes selected from a nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the isolated gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the gene product encoded by the subject polynucleotide in the disease, and provides guidance for preparing a therapeutic agent.

Alternatively, mRNA corresponding to a provided polynucleotide in the two tissues is compared. PolyA$^+$ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of mRNA transcripts between the two tissues using Northern blots and detectably labeled

nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of a given mRNA in a tissue sample suspected of being diseased, compared with the expression of the same mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

The comparison can also be accomplished by analyzing polypeptides between the matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polypeptides in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A higher or lower level of expression of a given polypeptide in a tissue suspected of being diseased, compared with the same protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides guidance for preparing a therapeutic agent.

Similarly, comparison of polynucleotide sequences or of gene expression products, *e.g.*, mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons are made as described above. For example, increased or decreased expression of a gene corresponding to an inventive polynucleotide in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of a given gene in the neoplastic tissue relative to expression of the same gene in normal tissue, or differences in the amount of increased expression of a given gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time.

The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, malignant or non-malignant cells, or cells from tissue which have and have not been exposed to a therapeutic agent. A genetic predisposition to disease in a human is detected by comparing expression levels of an mRNA or protein corresponding to a polynucleotide of the invention in a fetal tissue with levels associated in normal fetal tissue. Fetal tissues that are used for this purpose include, but are not limited

to, amniotic fluid, chorionic villi, blood, and the blastomere of an in vitro-fertilized embryo. The comparable normal polynucleotide-related gene is obtained from any tissue. The mRNA or protein is obtained from a normal tissue of a human in which the polynucleotide-related gene is expressed. Differences such as alterations in the nucleotide sequence or size of the same product of the fetal polynucleotide-related gene or mRNA, or alterations in the molecular weight, amino acid sequence, or relative abundance of fetal protein, can indicate a germline mutation in the polynucleotide-related gene of the fetus, which indicates a genetic predisposition to disease. Particular diagnostic and prognostic uses of the disclosed polynucleotides are described in more detail below.

E. Diagnostic, Prognostic, and Other Uses Based On Differential Expression

In general, diagnostic methods of the invention for involve detection of a level or amount of a gene product, particularly a differentially expressed gene product, in a test sample obtained from a patient suspected of having or being susceptible to a disease (*e.g.*, breast cancer, lung cancer, colon cancer and/or metastatic forms thereof), and comparing the detected levels to those levels found in normal cells (*e.g.*, cells substantially unaffected by cancer) and/or other control cells (*e.g.*, to differentiate a cancerous cell from a cell affected by dysplasia). Furthermore, the severity of the disease can be assessed by comparing the detected levels of a differentially expressed gene product with those levels detected in samples representing the levels of differentially gene product associated with varying degrees of severity of disease.

The term "differentially expressed gene" is intended to encompass a polynucleotide that can, for example, include an open reading frame encoding a gene product (*e.g.*, a polypeptide), and/or introns of such genes and adjacent 5' and 3' non-coding nucleotide sequences involved in the regulation of expression, up to about 20 kb beyond the coding region, but possibly further in either direction. The gene can be introduced into an appropriate vector for extrachromosomal maintenance or for integration into a host genome. In general, a difference in expression level associated with a decrease in expression level of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% or more is indicative of a differentially expressed gene of interest, *i.e.*, a gene that is underexpressed or down-regulated in the test sample relative to a control sample. Furthermore, a difference in expression level associated with an increase in

expression of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% and can be at least about 1 ½-fold, usually at least about 2-fold to about 10-fold, and can be about 100-fold to about 1,000-fold increase relative to a control sample is indicative of a differentially expressed gene of interest, *i.e.*, an overexpressed or up-regulated gene.

"Differentially expressed polynucleotide" as used herein means a nucleic acid molecule (RNA or DNA) having a sequence that represents a differentially expressed gene, *e.g.*, the differentially expressed polynucleotide comprises a sequence (*e.g.*, an open reading frame encoding a gene product) that uniquely identifies a differentially expressed gene so that detection of the differentially expressed polynucleotide in a sample is correlated with the presence of a differentially expressed gene in a sample. "Differentially expressed polynucleotides" is also meant to encompass fragments of the disclosed polynucleotides, *e.g.*, fragments retaining biological activity, as well as nucleic acids homologous, substantially similar, or substantially identical (*e.g.*, having about 90% sequence identity) to the disclosed polynucleotides.

Methods of the subject invention useful in diagnosis or prognosis typically involve comparison of the abundance of a selected differentially expressed gene product in a sample of interest with that of a control to determine any relative differences in the expression of the gene product, where the difference can be measured qualitatively and/or quantitatively. Quantitation can be accomplished, for example, by comparing the level of expression product detected in the sample with the amounts of product present in a standard curve. A comparison can be made visually; by using a technique such as densitometry, with or without computerized assistance; by preparing a representative library of cDNA clones of mRNA isolated from a test sample, sequencing the clones in the library to determine that number of cDNA clones corresponding to the same gene product, and analyzing the number of clones corresponding to that same gene product relative to the number of clones of the same gene product in a control sample; or by using an array to detect relative levels of hybridization to a selected sequence or set of sequences, and comparing the hybridization pattern to that of a control. The differences in expression are then correlated with the presence or absence of an abnormal expression pattern. A variety of different methods for determining the nucleic acid abundance in a sample are known to

those of skill in the art, where particular methods of interest include those described in: Pietu *et al. Genome Res.* (1996) 6:492; Zhao *et al., Gene* (1995) *156*:207; Soares , *Curr. Opin. Biotechnol.* (1977) *8*: 542; Raval, *J. Pharmacol Toxicol Methods* (1994) *32*:125; Chalifour *et al., Anal. Biochem* (1994) *216*:299; Stolz *et al., Mol. Biotechnol.* (1996) *6*:225; Hong *et al., Biosci. Reports* (1982) *2*:907; and McGraw, *Anal. Biochem.* (1984) *143*:298. Also of interest are the methods disclosed in WO 97/27317, the disclosure of which is herein incorporated by reference.

In general, diagnostic assays of the invention involve detection of a gene product of a the polynucleotide sequence (*e.g.*, mRNA or polypeptide) that corresponds to a sequence of "SEQ ID NOS:1-5252." The patient from whom the sample is obtained can be apparently healthy, susceptible to disease (*e.g.*, as determined by family history or exposure to certain environmental factors), or can already be identified as having a condition in which altered expression of a gene product of the invention is implicated.

In the assays of the invention, the diagnosis can be determined based on detected gene product expression levels of a gene product encoded by at least one, preferably at least two or more, at least 3 or more, or at least 4 or more of the polynucleotides having a sequence set forth in "SEQ ID NOS:1-5252," and can involve detection of expression of genes corresponding to all of "SEQ ID NOS:1-5252" and/or additional sequences that can serve as additional diagnostic markers and/or reference sequences. Where the diagnostic method is designed to detect the presence or susceptibility of a patient to cancer, the assay preferably involves detection of a gene product encoded by a gene corresponding to a polynucleotide that is differentially expressed in cancer. For example, a higher level of expression of a polynucleotide corresponding to SEQ ID NO:2024 relative to a level associated with a normal sample can indicate the presence of cancer in the patient from whom the sample is derived. In another example, detection of a lower level of a polynucleotide corresponding to SEQ ID NO:590 relative to a normal level is indicative of the presence of cancer in the patient. Further examples of such differentially expressed polynucleotides are described in the Examples below. Given the provided polynucleotides and information regarding their relative expression levels provided herein, assays using such polynucleotides and detection of their expression levels in diagnosis and prognosis will be readily apparent to the ordinarily skilled artisan.

Any of a variety of detectable labels can be used in connection with the various embodiments of the diagnostic methods of the invention. Suitable detectable labels include fluorochromes,(*e.g.* fluorescein isothiocyanate (FITC), rhodamine, Texas Red, phycoerythrin, allophycocyanin, 6-carboxyfluorescein (6-FAM), 2',7'-dimethoxy-4',5'-dichloro-6-carboxyfluorescein, 6-carboxy-X-rhodamine (ROX), 6-carboxy-2',4',7',4,7-hexachlorofluorescein (HEX), 5-carboxyfluorescein (5-FAM) or N,N,N',N'-tetramethyl-6-carboxyrhodamine (TAMRA)), radioactive labels, (*e.g.* ^{32}P, ^{35}S, ^{3}H, *etc.*), and the like. The detectable label can involve a two stage systems (*e.g.*, biotin-avidin, hapten-anti-hapten antibody, *etc.*)

Reagents specific for the polynucleotides and polypeptides of the invention, such as antibodies and nucleotide probes, can be supplied in a kit for detecting the presence of an expression product in a biological sample. The kit can also contain buffers or labeling components, as well as instructions for using the reagents to detect and quantify expression products in the biological sample. Exemplary embodiments of the diagnostic methods of the invention are described below in more detail.

Polypeptide detection in diagnosis. In one embodiment, the test sample is assayed for the level of a differentially expressed polypeptide. Diagnosis can be accomplished using any of a number of methods to determine the absence or presence or altered amounts of the differentially expressed polypeptide in the test sample. For example, detection can utilize staining of cells or histological sections with labeled antibodies, performed in accordance with conventional methods. Cells can be permeabilized to stain cytoplasmic molecules. In general, antibodies that specifically bind a differentially expressed polypeptide of the invention are added to a sample, and incubated for a period of time sufficient to allow binding to the epitope, usually at least about 10 minutes. The antibody can be detectably labeled for direct detection (*e.g.*, using radioisotopes, enzymes, fluorescers, chemiluminescers, and the like), or can be used in conjunction with a second stage antibody or reagent to detect binding (*e.g.*, biotin with horseradish peroxidase-conjugated avidin, a secondary antibody conjugated to a fluorescent compound, *e.g.* fluorescein, rhodamine, Texas red, *etc.*). The absence or presence of antibody binding can be determined by various methods, including flow cytometry of dissociated cells, microscopy, radiography, scintillation counting, *etc.* Any suitable alternative methods can

of qualitative or quantitative detection of levels or amounts of differentially expressed polypeptide can be used, for example ELISA, western blot, immunoprecipitation, radioimmunoassay, etc.

In general, the detected level of differentially expressed polypeptide in the test sample is compared to a level of the differentially expressed gene product in a reference or control sample, *e.g.*, in a normal cell (negative control) or in a cell having a known disease state (positive control).

mRNA detection. The diagnostic methods of the invention can also or alternatively involve detection of mRNA encoded by a gene corresponding to a differentially expressed polynucleotides of the invention. Any suitable qualitative or quantitative methods known in the art for detecting specific mRNAs can be used. mRNA can be detected by, for example, *in situ* hybridization in tissue sections, by reverse transcriptase-PCR, or in Northern blots containing poly A+ mRNA. One of skill in the art can readily use these methods to determine differences in the size or amount of mRNA transcripts between two samples. For example, the level of mRNA of the invention in a tissue sample suspected of being cancerous or dysplastic is compared with the expression of the mRNA in a reference sample, *e.g.*, a positive or negative control sample (*e.g.*, normal tissue, cancerous tissue, *etc.*).

Any suitable method for detecting and comparing mRNA expression levels in a sample can be used in connection with the diagnostic methods of the invention (see, *e.g.*, U.S. 5,804,382). For example, mRNA expression levels in a sample can be determined by generation of a library of expressed sequence tags (ESTs) from the sample, where the EST library is representative of sequences present in the sample (Adams, et al., (1991) *Science* 252:1651). Enumeration of the relative representation of ESTs within the library can be used to approximate the relative representation of the gene transcript within the starting sample. The results of EST analysis of a test sample can then be compared to EST analysis of a reference sample to determine the relative expression levels of a selected polynucleotide, particularly a polynucleotide corresponding to one or more of the differentially expressed genes described herein.

Alternatively, gene expression in a test sample can be performed using serial analysis of gene expression (SAGE) methodology (Velculescu et al., *Science* (1995)

270:484). In short, SAGE involves the isolation of short unique sequence tags from a specific location within each transcript. The sequence tags are concatenated, cloned, and sequenced. The frequency of particular transcripts within the starting sample is reflected by the number of times the associated sequence tag is encountered with the sequence population.

Gene expression in a test sample can also be analyzed using differential display (DD) methodology. In DD, fragments defined by specific sequence delimiters (*e.g.*, restriction enzyme sites) are used as unique identifiers of genes, coupled with information about fragment length or fragment location within the expressed gene. The relative representation of an expressed gene with a sample can then be estimated based on the relative representation of the fragment associated with that gene within the pool of all possible fragments. Methods and compositions for carrying out DD are well known in the art, see, *e.g.*, U.S. 5,776,683; and U.S. 5,807,680.

Alternatively, gene expression in a sample using hybridization analysis, which is based on the specificity of nucleotide interactions. Oligonucleotides or cDNA can be used to selectively identify or capture DNA or RNA of specific sequence composition, and the amount of RNA or cDNA hybridized to a known capture sequence determined qualitatively or quantitatively, to provide information about the relative representation of a particular message within the pool of cellular messages in a sample. Hybridization analysis can be designed to allow for concurrent screening of the relative expression of hundreds to thousands of genes by using, for example, array-based technologies having high density formats, including filters, microscope slides, or microchips, or solution-based technologies that use spectroscopic analysis (*e.g.*, mass spectrometry). One exemplary use of arrays in the diagnostic methods of the invention is described below in more detail.

Use of a single gene in diagnostic applications. The diagnostic methods of the invention can focus on the expression of a single differentially expressed gene. For example, the diagnostic method can involve detecting a differentially expressed gene, or a polymorphism of such a gene (*e.g.*, a polymorphism in an coding region or control region), that is associated with disease. Disease-associated polymorphisms can include deletion or truncation of the gene, mutations that alter expression level and/or affect activity of the encoded protein, *etc.*

Changes in the promoter or enhancer sequence that affect expression levels of an differentially gene can be compared to expression levels of the normal allele by various methods known in the art. Methods for determining promoter or enhancer strength include quantitation of the expressed natural protein; insertion of the variant control element into a vector with a reporter gene such as β-galactosidase, luciferase, chloramphenicol acetyltransferase, *etc.* that provides for convenient quantitation; and the like.

A number of methods are available for analyzing nucleic acids for the presence of a specific sequence, *e.g.* a disease associated polymorphism. Where large amounts of DNA are available, genomic DNA is used directly. Alternatively, the region of interest is cloned into a suitable vector and grown in sufficient quantity for analysis. Cells that express a differentially expressed gene can be used as a source of mRNA, which can be assayed directly or reverse transcribed into cDNA for analysis. The nucleic acid can be amplified by conventional techniques, such as the polymerase chain reaction (PCR), to provide sufficient amounts for analysis, and a detectable label can be included in the amplification reaction (*e.g.*, using a detectably labeled primer or detectably labeled oligonucleotides) to facilitate detection. The use of the polymerase chain reaction is described in Saiki, *et al.*, *Science* (1985) *239*:487, and a review of techniques can be found in Sambrook, *et al.*, *Molecular Cloning: A Laboratory Manual*, (1989) pp. 14.2. Alternatively, various methods are known in the art that utilize oligonucleotide ligation as a means of detecting polymorphisms, for examples see Riley *et al.*, *Nucl. Acids Res.* (1990) *18*:2887; and Delahunty *et al.*, *Am. J. Hum. Genet.* (1996) *58*:1239.

The sample nucleic acid, *e.g.* amplified or cloned fragment, is analyzed by one of a number of methods known in the art. The nucleic acid can be sequenced by dideoxy or other methods, and the sequence of bases compared to a selected sequence, *e.g.*, to a wild-

type sequence. Hybridization with the polymorphic or variant sequence can also be used to determine its presence in a sample (*e.g.*, by Southern blot, dot blot, *etc.)*. The hybridization pattern of a polymorphic or variant sequence and a control sequence to an array of oligonucleotide probes immobilized on a solid support, as described in US 5,445,934, or in WO 95/35505, can also be used as a means of identifying polymorphic or variant sequences associated with disease. Single strand conformational polymorphism (SSCP) analysis, denaturing gradient gel electrophoresis (DGGE), and heteroduplex analysis in gel matrices are used to detect conformational changes created by DNA sequence variation as alterations in electrophoretic mobility. Alternatively, where a polymorphism creates or destroys a recognition site for a restriction endonuclease, the sample is digested with that endonuclease, and the products size fractionated to determine whether the fragment was digested. Fractionation is performed by gel or capillary electrophoresis, particularly acrylamide or agarose gels.

Screening for mutations in an differentially expressed gene can be based on the functional or antigenic characteristics of the protein. Protein truncation assays are useful in detecting deletions that can affect the biological activity of the protein. Various immunoassays designed to detect polymorphisms in proteins can be used in screening. Where many diverse genetic mutations lead to a particular disease phenotype, functional protein assays have proven to be effective screening tools. The activity of the encoded protein can be determined by comparison with the wild-type protein.

Pattern matching in diagnosis using arrays. In another embodiment, the diagnostic and/or prognostic methods of the invention involve detection of expression of a selected set of genes in a test sample to produce a test expression pattern (TEP). The TEP is compared to a reference expression pattern (REP), which is generated by detection of expression of the selected set of genes in a reference sample (*e.g.*, a positive or negative control sample). The selected set of genes includes at least one of the genes of the invention, which genes correspond to the polynucleotide sequences of "SEQ ID NOS:1-5252." Of particular interest is a selected set of genes that includes gene differentially expressed in the disease for which the test sample is to be screened.

"Reference sequences" or "reference polynucleotides" as used herein in the context of differential gene expression analysis and diagnosis/prognosis refers to a selected set of

polynucleotides, which selected set includes at least one or more of the differentially expressed polynucleotides described herein. A plurality of reference sequences, preferably comprising positive and negative control sequences, can be included as reference sequences. Additional suitable reference sequences are found in Genbank, Unigene, and other nucleotide sequence databases (including, *e.g.*, expressed sequence tag (EST), partial, and full-length sequences).

"Reference array" means an array having reference sequences for use in hybridization with a sample, where the reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Usually such an array will include at least 3 different reference sequences, and can include any one or all of the provided differentially expressed sequences. Arrays of interest can further comprise sequences, including polymorphisms, of other genetic sequences, particularly other sequences of interest for screening for a disease or disorder (*e.g.*, cancer, dysplasia, or other related or unrelated diseases, disorders, or conditions). The oligonucleotide sequence on the array will usually be at least about 12 nt in length, and can be of about the length of the provided sequences, or can extend into the flanking regions to generate fragments of 100 nt to 200 nt in length or more.

A "reference expression pattern" or "REP" as used herein refers to the relative levels of expression of a selected set of genes, particularly of differentially expressed genes, that is associated with a selected cell type, *e.g.*, a normal cell, a cancerous cell, a cell exposed to an environmental stimulus, and the like. A "test expression pattern" or "TEP" refers to relative levels of expression of a selected set of genes, particularly of differentially expressed genes, in a test sample (*e.g.*, a cell of unknown or suspected disease state, from which mRNA is isolated).

"Diagnosis" as used herein generally includes determination of a subject's susceptibility to a disease or disorder, determination as to whether a subject is presently affected by a disease or disorder, as well as to the prognosis of a subject affected by a disease or disorder (*e.g.*, identification of pre-metastatic or metastatic cancerous states, stages of cancer, or responsiveness of cancer to therapy). The present invention particularly encompasses diagnosis of subjects in the context of breast cancer (*e.g.*, carcinoma in situ (*e.g.*, ductal carcinoma in situ), estrogen receptor (ER)-positive breast

cancer, ER-negative breast cancer, or other forms and/or stages of breast cancer), lung cancer (*e.g.*, small cell carcinoma, non-small cell carcinoma, mesothelioma, and other forms and/or stages of lung cancer), and colon cancer (*e.g.*, adenomatous polyp, colorectal carcinoma, and other forms and/or stages of colon cancer).

"Sample" or "biological sample" as used throughout here are generally meant to refer to samples of biological fluids or tissues, particularly samples obtained from tissues, especially from cells of the type associated with the disease for which the diagnostic application is designed (*e.g.*, ductal adenocarcinoma), and the like. "Samples" is also meant to encompass derivatives and fractions of such samples (*e.g.*, cell lysates). Where the sample is solid tissue, the cells of the tissue can be dissociated or tissue sections can be analyzed.

REPs can be generated in a variety of ways according to methods well known in the art. For example, REPs can be generated by hybridizing a control sample to an array having a selected set of polynucleotides (particularly a selected set of differentially expressed polynucleotides), acquiring the hybridization data from the array, and storing the data in a format that allows for ready comparison of the REP with a TEP. Alternatively, all expressed sequences in a control sample can be isolated and sequenced, *e.g.*, by isolating mRNA from a control sample, converting the mRNA into cDNA, and sequencing the cDNA. The resulting sequence information roughly or precisely reflects the identity and relative number of expressed sequences in the sample. The sequence information can then be stored in a format (*e.g.*, a computer-readable format) that allows for ready comparison of the REP with a TEP. The REP can be normalized prior to or after data storage, and/or can be processed to selectively remove sequences of expressed genes that are of less interest or that might complicate analysis (*e.g.*, some or all of the sequences associated with housekeeping genes can be eliminated from REP data).

TEPs can be generated in a manner similar to REPs, *e.g.*, by hybridizing a test sample to an array having a selected set of polynucleotides, particularly a selected set of differentially expressed polynucleotides, acquiring the hybridization data from the array, and storing the data in a format that allows for ready comparison of the TEP with a REP. The REP and TEP to be used in a comparison can be generated simultaneously, or the TEP can be compared to previously generated and stored REPs.

In one embodiment of the invention, comparison of a TEP with a REP involves hybridizing a test sample with a reference array, where the reference array has one or more reference sequences for use in hybridization with a sample. The reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Hybridization data for the test sample is acquired, the data normalized, and the produced TEP compared with a REP generated using an array having the same or similar selected set of differentially expressed polynucleotides. Probes that correspond to sequences differentially expressed between the two samples will show decreased or increased hybridization efficiency for one of the samples relative to the other.

Reference arrays can be produced according to any suitable methods known in the art. For example, methods of producing large arrays of oligonucleotides are described in U.S. 5,134,854, and U.S. 5,445,934 using light-directed synthesis techniques. Using a computer controlled system, a heterogeneous array of monomers is converted, through simultaneous coupling at a number of reaction sites, into a heterogeneous array of polymers. Alternatively, microarrays are generated by deposition of pre-synthesized oligonucleotides onto a solid substrate, for example as described in PCT published application no. WO 95/35505.

Methods for collection of data from hybridization of samples with a reference arrays are also well known in the art. For example, the polynucleotides of the reference and test samples can be generated using a detectable fluorescent label, and hybridization of the polynucleotides in the samples detected by scanning the microarrays for the presence of the detectable label. Methods and devices for detecting fluorescently marked targets on devices are known in the art. Generally, such detection devices include a microscope and light source for directing light at a substrate. A photon counter detects fluorescence from the substrate, while an x-y translation stage varies the location of the substrate. A confocal detection device that can be used in the subject methods is described in U.S. Patent no. 5,631,734. A scanning laser microscope is described in Shalon et al., *Genome Res.* (1996) *6*:639. A scan, using the appropriate excitation line, is performed for each fluorophore used. The digital images generated from the scan are then combined for subsequent analysis. For any particular array element, the ratio of the fluorescent signal from one

sample (*e.g.*, a test sample) is compared to the fluorescent signal from another sample (*e.g.*, a reference sample), and the relative signal intensity determined.

Methods for analyzing the data collected from hybridization to arrays are well known in the art. For example, where detection of hybridization involves a fluorescent label, data analysis can include the steps of determining fluorescent intensity as a function of substrate position from the data collected, removing outliers, *i.e.* data deviating from a predetermined statistical distribution, and calculating the relative binding affinity of the targets from the remaining data. The resulting data can be displayed as an image with the intensity in each region varying according to the binding affinity between targets and probes.

In general, the test sample is classified as having a gene expression profile corresponding to that associated with a disease or non-disease state by comparing the TEP generated from the test sample to one or more REPs generated from reference samples (*e.g.*, from samples associated with cancer or specific stages of cancer, dysplasia, samples affected by a disease other than cancer, normal samples, *etc.*). The criteria for a match or a substantial match between a TEP and a REP include expression of the same or substantially the same set of reference genes, as well as expression of these reference genes at substantially the same levels (*e.g.*, no significant difference between the samples for a signal associated with a selected reference sequence after normalization of the samples, or at least no greater than about 25% to about 40% difference in signal strength for a given reference sequence. In general, a pattern match between a TEP and a REP includes a match in expression, preferably a match in qualitative or quantitative expression level, of at least one of, all or any subset of the differentially expressed genes of the invention.

Pattern matching can be performed manually, or can be performed using a computer program. Methods for preparation of substrate matrices (*e.g.*, arrays), design of oligonucleotides for use with such matrices, labeling of probes, hybridization conditions, scanning of hybridized matrices, and analysis of patterns generated, including comparison analysis, are described in, for example, U.S. 5,800,992.

F. Use of the Polynucleotides of the Invention in Cancer

Oncogenesis involves the unbridled growth, dedifferentiation and abnormal migration of cells. Cancerous cells can have the ability to compress, invade, and destroy

normal tissue. Cancerous cells may also metastasize to other parts of the body via the bloodstream or the lymph system and colonize in these other areas. Different cancers are classified by the cell from which the cancerous cell is derived and from its cellular morphology and/or state of differentiation.

Somatic genetic abnormalities cause cancer initiation and progression. Cancer generally is clonally formed, *i.e.* gain of function of oncogenes and loss of function of tumor suppressor genes within a single cell transform the cell to be cancerous, and that single cell grows and divides to form a cancerous lesion. The genes known to be involved in cancer initiation and progression are involved in numerous cellular functions, including developmental differentiation, cell cycle regulation, cell signaling, immunological response, DNA replication, and DNA repair.

The identification and characterization of genetic or biochemical markers in blood or tissues that will detect the earliest changes along the carcinogenesis pathway and monitor the efficacy of various therapies and preventive interventions is a major goal of cancer research. Scientists have identified genetic changes in stool specimens that indicate the stages of colon cancer, and other biomarkers such as gene mutations, hormone receptors, proteins that inhibit metastasis, and enzymes that metabolize drugs are all being used to determine the severity and predict the course of breast, prostate, lung, and other cancers.

Recent advances in the pathogenesis of certain cancers has been helpful in determining patient treatment. The level of expression of certain polynucleotides can be indicative of a poorer prognosis, and therefore warrant more aggressive chemo- or radio-therapy for a patient. The correlation of novel surrogate tumor specific features with response to treatment and outcome in patients has defined certain prognostic indicators that allow the design of tailored therapy based on the molecular profile of the tumor. These therapies include antibody targeting and gene therapy. Moreover, a promising level of one or more marker polynucleotides can provide impetus for not aggressively treating a particular patient, thus sparing the patient the deleterious side effects of aggressive therapy. Determining expression of certain polynucleotides and comparison of a patients profile with known expression in normal tissue and variants of the disease allows

a determination of the best possible treatment for a patient, both in terms of specificity of treatment and in terms of comfort level of the patient.

Surrogate tumor markers, such as polynucleotide expression, can also be used to better classify, and thus diagnose and treat, different forms and disease states of cancer. Two classifications widely used in oncology that can benefit from identification of the expression levels of the polynucleotides of the invention are staging of the cancerous disorder, and grading the nature of the cancerous tissue.

Staging. Staging is a process used by physicians to describe how advanced the cancerous state is in a patient. Staging assists the physician in determining a prognosis, planning treatment and evaluating the results of such treatment. Different staging systems are used for different types of cancer, but each generally involves the following determinations: the type of tumor, indicated by T; whether the cancer has metastasized to nearby lymph nodes, indicated by N; and whether the cancer has metastasized to more distant parts of the body, indicated by M. This system of staging is called the TNM system. Generally, if a cancer is only detectable in the area of the primary lesion without having spread to any lymph nodes it is called Stage I. If it has spread only to the closest lymph nodes, it is called Stage II. In Stage III, the cancer has generally spread to the lymph nodes in near proximity to the site of the primary lesion. Cancers that have spread to a distant part of the body, such as the liver, bone, brain or another site, are called Stage IV, the most advanced stage.

Currently, the determination of staging is done using pathological techniques and is based more on the presence or absence of malignant tissue rather than the characteristics of the tumor type. Presence or absence of malignant tissue is based primarily on the gross morphology of the cells in the areas biopsied. The polynucleotides of the invention can facilitate fine-tuning of the staging process by identifying markers for the aggresivity of a cancer, *e.g.* the metastatic potential, as well as the presence in different areas of the body. Thus, a Stage II cancer with a polynucleotide signifying a high metastatic potential cancer can be used to change a borderline Stage II tumor to a Stage III tumor, justifying more aggressive therapy. Conversely, the presence of a polynucleotide signifying a lower metastatic potential allows more conservative staging of a tumor.

Grading of cancers. Grade is a term used to describe how closely a tumor resembles normal tissue of its same type. Based on the microscopic appearance of a tumor, pathologists will identify the grade of a tumor based on parameters such as cell morphology, cellular organization, and other markers of differentiation. As a general rule, the grade of a tumor corresponds to its rate of growth or aggressiveness. That is, undifferentiated or high-grade tumors grow more quickly than well differentiated or low-grade tumors. Information about tumor grade is useful in planning treatment and predicting prognosis.

The American Joint Commission on Cancer has recommended the following guidelines for grading tumors: 1) GX Grade cannot be assessed; 2) G1 Well differentiated; G2 Moderately well differentiated; 3) G3 Poorly differentiated; 4) G4 Undifferentiated. Although grading is used by pathologists to describe most cancers, it plays a more important role in treatment planning for certain types than for others. An example is the Gleason system that is specific for prostate cancer, which uses grade numbers to describe the degree of differentiation. Lower Gleason scores indicate well-differentiated cells. Intermediate scores denote tumors with moderately differentiated cells. Higher scores describe poorly differentiated cells. Grade is also important in some types of brain tumors and soft tissue sarcomas.

The polynucleotides of the invention can be especially valuable in determining the grade of the tumor, as they not only can aid in determining the differentiation status of the cells of a tumor, they can also identify factors other than differentiation that are valuable in determining the aggressivity of a tumor, such as metastatic potential.

Familial Cancer Genes. A number of cancer syndromes are linked to Mendelian inheritance of a predisposition to develop particular cancers. The following table contains a list of cancer types that can be inherited, and for which the gene or genes responsible have been identified. Most of the cancer types listed can occur as part of several different genetic conditions, each caused by alterations in a different gene.

Cancer Type	Genetic Condition	Gene
Brain	Li-Fraumeni syndrome	TP53
Brain	Neurofibromatosis 1	NF1
	Neurofibromatosis 2	NF2
	von Hippel-Lindau syndrome	VHL

Cancer Type	Genetic Condition	Gene
	Tuberous sclerosis 2	TSC2
Breast	Hereditary breast/ovarian cancer 1	BRCA1
	Hereditary breast/ovarian cancer 2	BRCA2
	Li-Fraumeni syndrome	TP53
	Ataxia telangiectasia	ATM
Colon	Familial adenomatous polyposis (FAP)	APC
	Hereditary non-polyposis colon cancer (HNPCC) 1	HMSH2
	Hereditary non-polyposis colon cancer (HNPCC) 2	hMLH1
	Hereditary non-polyposis colon cancer (HNPCC) 3	hPMS1
	Hereditary non-polyposis colon cancer (HNPCC) 4	hPMS2
Endocrine (parathyroid, pituitary, GI endocrine)	Multiple endocrine neoplasia 1 (MEN1)	MEN1
Endocrine (pheochromacytoma, medullary thyroid)	Multiple endocrine neoplasia 2 (MEN2)	RET
Endometrial	Hereditary non-polyposis colon cancer (HNPCC) 1	hMSH2
	Hereditary non-polyposis colon cancer (HNPCC) 2	hMLH1
	Hereditary non-polyposis colon cancer (HNPCC) 3	hPMS1
	Hereditary non-polyposis colon cancer (HNPCC) 4	hPMS2
Eye	Hereditary retinoblastoma	RB1
Hematologic (lymphomas and leukemia)	Li-Fraumeni syndrome	TP53
	Ataxia telangiectasia	ATM
Kidney	Hereditary Wilms' tumor	WT1
	von Hippel-Lindau syndrome	VHL
	Tuberous sclerosis 2	TSC2
Ovary	Hereditary breast/ovarian cancer 1	BRCA1
	Hereditary breast/ovarian cancer 2	BRCA2
Sarcoma	Hereditary retinoblastoma	RB1
	Li-Fraumeni syndrome	TP53
	Neurofibromatosis 1	NF1
Skin	Hereditary melanoma 1	CDKN2
	Hereditary melanoma 2	CDK4
	Basal cell naevus (Gorlin) syndrome	PTCH
Stomach	Hereditary non-polyposis colon cancer (HNPCC) 1	hMSH2
	Hereditary non-polyposis colon cancer (HNPCC) 2	hMLH1
	Hereditary non-polyposis colon cancer (HNPCC) 3	hPMS1
	Hereditary non-polyposis colon cancer (HNPCC) 4	hPMS2

The polynucleotides of the invention can be especially useful to monitor patients having any of the above syndromes to detect potentially malignant events at a molecular level before they are detectable at a gross morphological level. As can be seen from the table, a number of genes are involved in multiple forms of cancer. Thus, a polynucleotide of the invention identified as important for metastatic colon cancer can also have clinical implications for a patient diagnosed with stomach cancer or endometrial cancer.

Lung Cancer. Lung cancer is one of the most common cancers in the United States, accounting for about 15 percent of all cancer cases, or 170,000 new cases each year. At this time, over half of the lung cancer cases in the United States are in men, but the number found in women is increasing and will soon equal that in men. Today more women die of lung cancer than of breast cancer. Lung cancer is especially difficult to diagnose and treat because of the large size of the lungs, which allows cancer to develop for years undetected. In fact, lung cancer can spread outside the lungs without causing any symptoms. Adding to the confusion, the most common symptom of lung cancer, a persistent cough, can often be mistaken for a cold or bronchitis.

Although there are more than a dozen different kinds of lung cancer, the two main types of lung cancer are small cell and nonsmall cell, which encompass about 90% of all lung cancer cases. Small cell carcinoma (also called oat cell carcinoma), which usually starts in one of the larger bronchial tubes, grows fairly rapidly, and is likely to be large by the time of diagnosis. Nonsmall cell lung cancer (NSCLC) is made up of three general subtypes of lung cancer. Epidermoid carcinoma (also called squamous cell carcinoma) usually starts in one of the larger bronchial tubes and grows relatively slowly. The size of these tumors can range from very small to quite large. Adenocarcinoma starts growing near the outside surface of the lung and can vary in both size and growth rate. Some slowly growing adenocarcinomas are described as alveolar cell cancer. Large cell carcinoma starts near the surface of the lung, grows rapidly, and the growth is usually fairly large when diagnosed. Other less common forms of lung cancer are carcinoid, cylindroma, mucoepidermoid, and malignant mesothelioma.

Currently, CT scans, MRIs, X-rays, sputum cytology, and biopsies are used to diagnose nonsmall cell lung cancer. The form and cellular origin of the lung cancer is diagnosed primarily through biopsy from either a surgical biopsy or a needle aspiration of lung tissue, and usually the biopsy is prompted from an abnormality identified on an X-ray. In some cases, sputum cytology can reveal lung cancers in patients with normal X-rays or can determine the type of lung cancer, but because it cannot pinpoint the tumor's location, a positive sputum cytology test is usually followed by further tests. Since these tests are based in large part on gross morphology of the tissue, the diagnosis of a particular kind of tumor is largely subjective, and the diagnosis can vary significantly between clinicians.

The polynucleotides of the invention can be used to distinguish types of lung cancer as well as identifying traits specific to a certain patient's cancer. For example, if the patient's biopsy expresses a polynucleotide that is associated with a low metastatic potential, it may justify leaving a larger portion of the patient's lung in surgery to remove the lesion. Alternatively, a smaller lesion with expression of a polynucleotide that is associated with high metastatic potential may justify a more radical removal of lung tissue and/or the surrounding lymph nodes, even if no metastasis can be identified through pathological examination.

Similarly, the expression of polynucleotides of the invention can be used in the diagnosis, prognosis and management of colorectal cancer. The differential expression of a polynucleotide in hyperplasia can be used as a diagnostic marker for metastatic lung cancer. The polynucleotides of the invention that would be especially useful for this purpose are those that exhibit differential expression between high metastatic versus low metastatic lung cancer , *i.e.* SEQ ID NOS: 174, 254, 466, 571, 574, 590, 922, 1355, 1422, 2007, 2038, 2245, 10, 54, 65, 171, 203, 252, 253, 285, 419, 420, 491, 525, 526, 552, 693, 700, 726, 742, 746, 861, 990, 1088, 1288, 1417, 1444, 1454, 1570, 1597, 1979, 2024, 2034, and 2126. Detection of malignant lung cancer with a higher metastatic potential can be determined using expression levels of any of these sequences alone or in combination with the levels of expression of other known genes.

Breast Cancer. The National Cancer Institute (NCI) estimates that about 1 in 8 women in the United States will develop breast cancer during her lifetime. Clinical breast examination and mammography are recommended as combined modalities for breast cancer screening, and the nature of the cancer will often depend upon the location of the tumor and the cell type from which the tumor is derived. The majority of breast cancers are adenocarcinomas subtypes, which can be summarized as follows:

Ductal carcinoma in situ (DCIS): Ductal carcinoma in situ is the most common type of noninvasive breast cancer. In DCIS, the malignant cells have not metastasized through the walls of the ducts into the fatty tissue of the breast. Comedocarcinoma is a type of DCIS that is more likely than other types of DCIS to come back in the same area after lumpectomy. It is more closely linked to eventual development of invasive ductal carcinoma than other forms of DCIS.

Infiltrating (or invasive) ductal carcinoma (IDC): this type of cancer has metastasized through the wall of the duct and invaded the fatty tissue of the breast. At this point, it has the potential to use the lymphatic system and bloodstream for metastasis to more distant parts of the body. Infiltrating ductal carcinoma accounts for about 80% of breast cancers.

Lobular carcinoma in situ (LCIS): While not a true cancer, LCIS (also called lobular neoplasia) is sometimes classified as a type of noninvasive breast cancer. It does not penetrate through the wall of the lobules. Although it does not itself usually become an invasive cancer, women with this condition have a higher risk of developing an invasive breast cancer in the same breast, or in the opposite breast.

Infiltrating (or invasive) lobular carcinoma (ILC): ILC is similar to IDC, in that it has the potential metastasize elsewhere in the body. About 10% to 15% of invasive breast cancers are invasive lobular carcinomas. ILC can be more difficult to detect by mammogram than IDC.

Inflammatory breast cancer: This rare type of invasive breast cancer accounts for about 1% of all breast cancers and is extremely aggressive. Multiple skin symptoms associated with this cancer are caused by cancer cells blocking lymph vessels or channels in the skin over the breast.

Medullary carcinoma: This special type of infiltrating breast cancer has a relatively well defined, distinct boundary between tumor tissue and normal tissue. It accounts for about 5% of breast cancers. The prognosis for this kind of breast cancer is better than for other types of invasive breast cancer.

Mucinous carcinoma: This rare type of invasive breast cancer originates from mucus-producing cells. The prognosis for mucinous carcinoma is better than for the more common types of invasive breast cancer.

Paget's disease of the nipple: This type of breast cancer starts in the ducts and spreads to the skin of the nipple and the areola. It is a rare type of breast cancer, occurring in only 1% of all cases. Paget's disease can be associated with in situ carcinoma, or with infiltrating breast carcinoma. If no lump can be felt in the breast tissue, and the biopsy shows DCIS but no invasive cancer, the prognosis is excellent.

Phyllodes tumor: This very rare type of breast tumor forms from the stroma of the breast, in contrast to carcinomas which develop in the ducts or lobules. Phyllodes (also spelled phylloides) tumors are usually benign, but are malignant on rare occasions. Nevertheless, malignant phyllodes tumors are very rare and less than 10 women per year in the US die of this disease. Benign phyllodes tumors are successfully treated by removing the mass and a narrow margin of normal breast tissue.

Tubular carcinoma: Accounting for about 2% of all breast cancers, tubular carcinomas are a special type of infiltrating breast carcinoma. They have a better prognosis than usual infiltrating ductal or lobularcarcinomas.

High-quality mammography combined with clinical breast exam remains the only screening method clearly tied to reduction in breast cancer mortality. Lower dose x-rays, digitized computer rather than film images, and the use of computer programs to assist diagnosis, are almost ready for widespread dissemination. Other technologies also are being developed, including magnetic resonance imaging and ultrasound. In addition, a very low radiation exposure technique, positron emission tomography has the potential for detecting early breast cancer.

It is also possible to differentiate between non-cancerous breast tissue and malignant breast tissue by analyzing differential gene expression between tissues. In addition, there may be several possible alterations that lead to the various possible types of breast cancer. The different types of breast tumors (*e.g.*, invasive vs. non-invasive, ductal vs. axillary lymph node) can be differentiable from one another by the identification of the differences in genes expressed by different types of breast tumor tissues (Porter-Jordan *et al.*, *Hematol Oncol Clin North Am* (1994) *8*:73). Breast cancer can thus be generally diagnosed by detection of expression of a gene or genes associated with breast tumors. Where enough information is available about the differential gene expression between various types of breast tumor tissues, the specific type of breast tumor can also be diagnosed.

For example, increased estrogen receptor (ER) expression in normal breast epithileum, while not itself indicative of malignant tissue, is a known risk marker for development of breast cancer. Khan SA *et al.*, *Cancer Res* (1994) *54*:993. Malignant breast cancer is often divided into two groups, ER-positive and ER-negative, based on the

estrogen receptor status of the tissue. The ER status represents different survival length and response to hormone therapy, and is thought to represent either: 1) an indicator of different stages of the disease, or 2) an indicator that allows differentiation between two similar but distinct diseases. K. Zhu *et al.*, *Med. Hypoth.* (1997) *49*:69. A number of other genes are known to vary expression between either different stages of cancer or different types of similar breast cancer.

Similarly, the expression of polynucleotides of the invention can be used in the diagnosis and management of breast cancer. The differential expression of a polynucleotide in human breast tumor tissue can be used as a diagnostic marker for human breast cancer. The polynucleotides of the invention that would be especially useful for this purpose are those that exhibit differential expression between breast cancer tissue with a high metastatic potential and a low metastatic potential, *i.e.* SEQ ID NOS:15, 36, 44, 89, 172, 203, 261, 419, 420, 503, 552, 564, 570, 590, 693, 707, 711, 726, 746, 756, 990, 1122, 1142, 1286, 1289, 1435, 1860, 1933, 1934, 1979, 1980, 2007, 2023, 2409, 2486, 45, 146, 154, 159, 165, 174, 183, 364, 366, 387, 496, 510, 512, 529, 560, 606, 644, 646, 754, 875, 902, 921, 942, 1095, 1104, 1131, 1170, 1184, 1205, 1354, 1387, 1535, 1751, 1764, 1777, 1795, 1869, 1882, 1890, 1915, 2040, 2059, 2223, 2245, 2300, 2325, 2462, 2488, 2492; Detection of breast cancer can be determined using expression levels of any of these sequences alone or in combination. Determination of the aggressive nature and/or the metastatic potential of a breast cancer can also be determined by comparing levels of one or more polynucleotides of the invention and comparing levels of another sequence known to vary in cancerous tissue, *e.g.* ER expression. In addition, development of breast cancer can be detected by examining the ratio of SEQ ID NO: to the levels of steroid hormones (*e.g.*, testosterone or estrogen) or to other hormones (*e.g.*, growth hormone, insulin). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous breast tissue, to discriminate between breast cancers with different cells of origin, to discriminate between breast cancers with different potential metastatic rates, etc.

Diagnosis of breast cancer can also involve comparing the expression of a polynucleotide of the invention with the expression of other sequences in non-malignant breast tissue samples in comparison to one or more forms of the diseased tissue. A comparison of expression of one or more polynucleotides of the invention between the

samples provides information on relative levels of these polynucleotides as well as the ratio of these polynucleotides to the expression of other sequences in the tissue of interest compared to normal.

This risk of breast cancer is elevated significantly by the presence of an inherited risk for breast cancer, such as a mutation in BRCA-1 or BRCA-2. New diagnostic tools are being developed to address the needs of higher risk patients to complement mammography and physical examinations for early detection of breast cancer, particularly among younger women. The presence of antigen or expression markers in nipple aspirate fluid (NAF) samples collected from one or both breasts can be useful for useful for risk assessment or early cancer detection. Breast cytology and biomarkers obtained by random fine needle aspiration have been used to identify hyperplasia with atypia and overexpression of p53 and EGFR. The polynucleotides of the invention can be used in multivariate analysis with expression studies with genes such as p53 and EGFR as risk predictors and as surrogate endpoint biomarkers for breast cancer.

As well as being used for diagnosis and risk assessment, the expression of certain genes can also correlated to prognosis of a disease state. The expression of particular gene have been used as prognostic indicators for breast cancer including increased expression of *c-erbB-2*, pS2, ER, progesterone receptor, epidermal growth factor receptor (EGFR), *neu*, *myc*, *bcl-2*, *int2*, cytosolic tyrosine kinase, cyclin E, *prad-1*, *hst*, uPA, PAI-1, PAI-2, cathepsin D, as well as the presence of a number of cancer-specific antigens, *e.g.* CEA, CA M26, CA M29 and CA 15.3. Davis, *Br. J. Biomed Sci.* (1996) *53*:157. Poor prognosis has also been linked to a decrease in expression of certain genes, such as *p53, Rb, nm23.* The expression of the polynucleotides of the invention can be of prognostic value for determining the metastatic potential of a malignant breast cancer, as this molecules are differentially expressed between high and low metastatic potential tissues tumors. The levels of these polynucleotides in patients with malignant breast cancer can compared to normal tissue, malignant tissue with a known high potential metastatic level, and malignant tissue with a known lower level of metastatic potential to provide a prognosis for a particular patient. Such a prognosis is predictive of the extent and nature of the cancer. The determined prognosis is useful in determining the prognosis of a patient with breast cancer, both for initial treatment of the disease and for longer-term monitoring of the same

patient. If samples are taken from the same individual over a period of time, differences in polynucleotide expression that are specific to that patient can be identified and closely watched.

Colon Cancer. Colorectal cancer is one of the most common neoplasms in humans and perhaps the most frequent form of hereditary neoplasia. Prevention and early detection are key factors in controlling and curing colorectal cancer. Indeed, colorectal cancer is the second most preventable cancer, after lung cancer. Colorectal cancer begins as polyps, which are small, benign growths of cells that form on the inner lining of the colon. Over a period of several years, some of these polyps accumulate additional mutations and become cancerous. About 20 percent of all cases of colon cancer are thought to be related to heredity. Currently, multiple familial colorectal cancer disorders have been identified, which are summarized as follows:

Familial adenomatous polyposis (FAP): This condition results in a person having hundreds or even thousands of polyps in the colon and rectum that usually first appear during the teenage years. Cancer nearly always develops in one or more of these polyps between the ages of 30 and 50.

Gardner's syndrome: Like FAP, Gardner's syndrome results in polyps and colorectal cancers that develop at a young age. It can also cause benign tumors of the skin, soft connective tissue and bones.

Hereditary nonpolyposis colon cancer (HNPCC): People with this condition tend to develop colorectal cancer at a young age, without first having many polyps. HNPCC has an autosomal dominant pattern of inheritance with variable but high penetrance estimated to be about 90%. HNPCC underlies 0.5%-10% of all cases of colorectal cancer. An understanding of the mechanisms behind the development of HNPCC is emerging, and genetic presymptomatic testing, now being conducted in research settings, soon will be available on a widespread basis for individuals identified at risk for this disease.

Familial colorectal cancer in Ashkenazi Jews: Recent research has found an inherited tendency to developing colorectal cancer among some Jews of Eastern European descent. Like people with FAP, Gardner's syndrome, and HNPCC, their increased risk is due to an inherited mutation present in about 6% of American Jews.

Several tests are currently used to screen for colorectal cancer, including digital rectal examination, fecal occult blood test, sigmoidoscopy, colonoscopy, virtual colonoscopy and MRI. Each of these tests identifies potential colorectal cancer lesions, or a risk of development of these lesions, at a fairly gross morphological level.

The sequential alteration of a number of genes is associated with malignant adenocarcinoma, including the genes DCC, p53, ras, and FAP. For a review, see *e.g.* Fearon ER, *et al.*, *Cell* (1990) *61(5)*:759; Hamilton SR *et al.*, *Cancer* (1993) *72*:957; Bodmer W, *et al.*, *Nat Genet.* (1994) *4(3)*:217; Fearon ER, *Ann N Y Acad Sci.* (1995) *768*:101. Molecular genetic alterations are thus promising as potential diagnostic and prognostic indicators in colorectal carcinoma and molecular genetics of colorectal carcinoma since it is possible to differentiate between different types of colorectal neoplasias using molecular markers. Colorectal cancer can thus be generally diagnosed by detection of expression of a gene or genes associated with colorectal tumors.

Similarly, the expression of polynucleotides of the invention can be used in the diagnosis, prognosis and management of colorectal cancer. The differential expression of a polynucleotide in hyperplasia can be used as a diagnostic marker for colon cancer. The polynucleotides of the invention that would be especially useful for this purpose are those that exhibit differential expression between malignant metastatic colon cancer and normal patient tissue , *i.e.* SEQ ID NOS:228, 280, 355, 491, 603, 680, 752, 753, 1241, 1264, 1401, 1442, 1514, 1851, 1915, 2024, 2066, 33, 250, 282, 370, 387, 443, 460, 545, 560, 703, 704, 1095, 1104, 1205, 1354, 1387, 1734, 1742, 1954, 2262, 2325, 1899, 252, 253, 491, 581, 693, 726, 746, 1780, 1899, 65, 252, 253, 581, 693, 716, 726, 746, 1780, 1899, and 1780. Detection of malignant colon cancer can be determined using expression levels of any of these sequences alone or in combination with the levels of expression.

Determination of the aggressive nature and/or the metastatic potential of a colon cancer can also be determined by comparing levels of one or more polynucleotides of the invention and comparing total levels of another sequence known to vary in cancerous tissue, *e.g.* p53 expression. In addition, development of colon cancer can be detected by examining the ratio of any of the polynucleotides of the invention to the levels of oncogenes (*e.g.* ras) or tumor suppressor genes (*e.g.* FAP or p53). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous

breast tissue, to discriminate between breast cancers with different cells of origin, to discriminate between breast cancers with different potential metastatic rates, etc.

G. Use of Polynucleotides to Screen for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

A library of peptides can be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175 ('175), and in WO 91/17823. As described below in brief, one prepares a mixture of peptides, which is then screened to identify the peptides exhibiting the desired signal transduction and receptor binding activity. In the '175 method, a suitable peptide synthesis support (*e.g.*, a resin) is coupled to a mixture of appropriately protected, activated amino acids. The concentration of each amino acid in the reaction mixture is balanced or adjusted in inverse proportion to its coupling reaction rate so that the product is an equimolar mixture of amino acids coupled to the starting resin. The bound amino acids are then deprotected, and reacted with another balanced amino acid mixture to form an equimolar mixture of all possible dipeptides. This process is repeated until a mixture of peptides of the desired length (*e.g.*, hexamers) is formed. Note that one need not include all amino acids in each step: one can include only one or two amino acids in some steps (*e.g.*, where it is known that a particular amino acid is essential in a given position), thus reducing the complexity of the mixture. After the synthesis of the peptide library is completed, the mixture of peptides is screened for binding to the selected polypeptide. The peptides are then tested for their ability to inhibit or enhance activity. Peptides exhibiting the desired activity are then isolated and sequenced.

The method described in WO 91/17823 is similar. However, instead of reacting the synthesis resin with a mixture of activated amino acids, the resin is divided into twenty equal portions (or into a number of portions corresponding to the number of different amino acids to be added in that step), and each amino acid is coupled individually to its portion of resin. The resin portions are then combined, mixed, and again divided into a number of equal portions for reaction with the second amino acid. In this manner, each reaction can be easily driven to completion. Additionally, one can maintain separate "subpools" by treating portions in parallel, rather than combining all resins at each step.

This simplifies the process of determining which peptides are responsible for any observed receptor binding or signal transduction activity.

In such cases, the subpools containing, *e.g.*, 1-2,000 candidates each are exposed to one or more polypeptides of the invention. Each subpool that produces a positive result is then resynthesized as a group of smaller subpools (sub-subpools) containing, *e.g.*, 20-100 candidates, and reassayed. Positive sub-subpools can be resynthesized as individual compounds, and assayed finally to determine the peptides that exhibit a high binding constant. These peptides can be tested for their ability to inhibit or enhance the native activity. The methods described in WO 91/7823 and U.S. Patent No. 5,194,392 (herein incorporated by reference) enable the preparation of such pools and subpools by automated techniques in parallel, such that all synthesis and resynthesis can be performed in a matter of days.

Peptide agonists or antagonists are screened using any available method, such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide can require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide can be added in concentrations on the order of the native concentration.

The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a gene or a cDNA corresponding to a polynucleotide of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor, information about agonist/antagonist binding can facilitate development of improved agonists/antagonists of the known receptor.

H. Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation is determined by routine experimentation and is within the judgment of the clinician. For purposes of the present invention, an effective dose will generally be from about 0.01 mg/ kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which can be administered without undue toxicity. Suitable carriers can be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions can include liquids such as water, saline, glycerol and ethanol. Auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, can also be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection can also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods. Once formulated, the compositions of the invention can be (1) administered directly to the subject (*e.g.*, as polynucleotide or polypeptides); (2) delivered ex vivo, to cells derived from the subject (*e.g.*, as in *ex vivo* gene therapy); or (3) delivered *in vitro* for expression of recombinant proteins (*e.g.*, polynucleotides). Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment can be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in *e.g.*, International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoetic, lymph cells, macrophages, dendritic cells, or tumor cells. Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

Once a gene corresponding to a polynucleotide of the invention has been found to correlate with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder can be amenable to treatment by administration of a therapeutic agent based on the provided polynucleotide or corresponding polypeptide.

Preparation of antisense polynucleotides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia of the skin, are treated with antisense therapeutic compositions based upon a polynucleotide of the invention. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of expression of a gene corresponding to a polynucleotide of the invention can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand of a polynucleotide disclosed herein. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into

the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends Biotechnol.* (1993) *11*:202; Chiou *et al.*, *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A. Wolff, ed.) (1994); Wu *et al.*, *J. Biol. Chem.* (1988) *263*:621; Wu *et al.*, *J. Biol. Chem.* (1994) *269*:542; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) *87*:3655; Wu *et al.*, *J. Biol. Chem.* (1991) *266*:338. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of DNA for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 μg to about 2 mg, about 5 μg to about 500 μg, and about 20 μg to about 100 μg of DNA can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of antisense subgenomic polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors, especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For polynucleotide-related genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173. Therapeutic agents also include antibodies to proteins and polypeptides

encoded by the polynucleotides of the invention and related genes, as described in U.S. Patent No. 5,654,173.

I. Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention can be utilized in gene delivery vehicles. The gene delivery vehicle can be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) *1*:51; Kimura, *Human Gene Therapy* (1994) *5*:845; Connelly, *Human Gene Therapy* (1995) *1*:185; and Kaplitt, *Nature Genetics* (1994) *6*:148). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) *53*:3860; Vile *et al.*, *Cancer Res.* (1993) *53*:962; Ram et al., *Cancer Res.* (1993) *53*:83; Takamiya *et al.*, J. *Neurosci. Res.* (1992) *33*:493; Baba et al., *J. Neurosurg.* (1993) *79*:729; U.S. Patent No. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242. Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs can be readily prepared (see, *e.g.*, WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and

Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994. Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Virol.* (1989) *63*:3822; Mendelson et al., *Virol.* (1988) *166*:154; and Flotte *et al.*, *PNAS* (1993) *90*:10613.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) *6*:616; Rosenfeld *et al.*, *Science* (1991) *252*:431; WO 93/19191; Kolls *et al.*, *PNAS* (1994) *91*:215; Kass-Eisler *et al.*, *PNAS* (1993) *90*:11498; Guzman *et al.*, *Circulation* (1993) *88*:2838; Guzman *et al.*, *Cir. Res.* (1993) *73*:1202; Zabner *et al.*, *Cell* (1993) *75*:207; Li *et al.*, *Hum. Gene Ther.* (1993) *4*:403; Cailaud *et al.*, *Eur. J. Neurosci.* (1993) *5*:1287; Vincent *et al.*, *Nat. Genet.* (1993) *5*:130; Jaffe *et al.*, *Nat. Genet.* (1992) *1*:372; and Levrero *et al.*, *Gene* (1991) *101*:195. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) *3*:147 can be employed.

Other gene delivery vehicles and methods can be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) *3*:147; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) *264*:16985; eukaryotic cell delivery vehicles cells, for example see U.S. Pat. No. 5,814,482; WO 95/07994; WO 96/17072; WO 95/30763; and WO 97/42338; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) *14*:2411, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) *91*:1581.

Naked DNA can also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859. Liposomes that can act as

gene delivery vehicles are described in U.S. Patent No. 5,422,120; WO 95/13796; WO 94/23697; WO 91/14445; and EP 0524968.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) *91*(24):11581. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of photopolymerized hydrogel materials. Other conventional methods for gene delivery that can be used for delivery of the coding sequence include, for example, use of hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; use of ionizing radiation for activating transferred gene, as described in U.S. Patent No. 5,206,152 and WO 92/11033.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

Example 1: Source of Biological Materials and Overview of Novel Polynucleotides Expressed by the Biological Materials

Human colon cancer cell line Km12L4-A (Morika, W. A. K. et al., *Cancer Research* (1988) *48*:6863) was used to construct a cDNA library from mRNA isolated from the cells. As described in the above overview, a total of 4,693 sequences expressed by the Km12L4-A cell line were isolated and analyzed; most sequences were about 275-300 nucleotides in length. The KM12L4-A cell line is derived from the KM12C cell line. The KM12C cell line, which is poorly metastatic (low metastatic) was established in culture from a Dukes' stage B_2 surgical specimen (Morikawa *et al. Cancer Res.* (1988) *48*:6863). The KML4-A is a highly metastatic subline derived from KM12C (Yeatman *et al. Nucl. Acids. Res.* (1995) *23*:4007; Bao-Ling *et al. Proc. Annu. Meet. Am. Assoc. Cancer. Res.* (1995) *21*:3269). The KM12C and KM12C-derived cell lines (*e.g.*, KM12L4, KM12L4-A, *etc.*) are well-recognized in the art as a model cell line for the study of colon cancer (see, *e.g.*, Moriakawa *et al.*, *supra*; Radinsky *et al. Clin. Cancer Res.* (1995) *1*:19; Yeatman *et al.*, (1995) *supra*; Yeatman *et al. Clin. Exp. Metastasis* (1996) *14*:246).

The sequences were first masked to eliminate low complexity sequences using the XBLAST masking program (Claverie "Effective Large-Scale Sequence Similarity Searches," In: Computer Methods for Macromolecular Sequence Analysis, Doolittle, ed., *Meth. Enzymol.* 266:212-227 Academic Press, NY, NY (1996); see particularly Claverie, in "Automated DNA Sequencing and Analysis Techniques" Adams *et al.*, eds., Chap. 36, p. 267 Academic Press, San Diego, 1994 and Claverie *et al. Comput. Chem.* (1993) 17:191). Generally, masking does not influence the final search results, except to eliminate sequences of relative little interest due to their low complexity, and to eliminate multiple "hits" based on similarity to repetitive regions common to multiple sequences, e.g., Alu repeats. Masking resulted in the elimination of 43 sequences. The remaining sequences were then used in a BLASTN vs. Genbank search with search parameters of greater than 70% overlap, 99% identity, and a p value of less than 1×10^{-40}, which search resulted in the discarding of 1,432 sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database

search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1 x 10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1 x 10^{-5}). This search resulted in discard of 98 sequences as having greater than 70% overlap, greater than 99% identity, and p value of less than 1 x 10^{-40}.

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on these sequences. First, a BLAST vs. EST database search resulted in discard of 1771 sequences (sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1 x 10^{-40}; sequences with a p value of less than 1 x 10^{-65} when compared to a database sequence of human origin were also excluded). Second, a BLASTN vs. Patent GeneSeq database resulted in discard of 15 sequences (greater than 99% identity; p value less than 1 x 10^{-40}; greater than 99% overlap).

The remaining sequences were subjected to screening using other rules and redundancies in the dataset. Sequences with a p value of less than 1 x 10^{-111} in relation to a database sequence of human origin were specifically excluded. The final result provided the 2502 sequences listed in the accompanying Sequence Listing. The Sequence Listing is arranged beginning with sequences with no similarity to any sequence in a database searched, and ending with sequences with the greatest similarity. Each identified polynucleotide represents sequence from at least a partial mRNA transcript. Polynucleotides that were determined to be novel were assigned a sequence identification number.

The novel polynucleotides were assigned sequence identification numbers SEQ ID NOS:1-2502. The DNA sequences corresponding to the novel polynucleotides are provided in the Sequence Listing. The majority of the sequences are presented in the Sequence Listing in the 5' to 3' direction. A small number of sequences are listed in the Sequence Listing in the 5' to 3' direction but the sequence as written is actually 3' to 5'. These sequences are readily identified with the designation "AR" in the Sequence Name in Table 1 (inserted before the claims). The sequences correctly listed in the 5' to 3' direction in the Sequence Listing are designated "AF." Table 1 provides: 1) the SEQ ID NO assigned to each sequence for use in the present specification; 2) the filing date of the U.S. priority application in which the sequence was first filed; 3) the SEQ ID NO assigned to the sequence in the priority application; 4) the sequence name used as an internal identifier of

the sequence; 5) the name assigned to the clone from which the sequence was isolated; and 6) the number of the cluster to which the sequence is assigned (Cluster ID; where the cluster ID is 0, the sequence was not assigned to any cluster

Because the provided polynucleotides represent partial mRNA transcripts, two or more polynucleotides of the invention may represent different regions of the same mRNA transcript and the same gene. Thus, if two or more SEQ ID NOS: are identified as belonging to the same clone, then either sequence can be used to obtain the full-length mRNA or gene. In addition, some sequences are identified with multiple SEQ ID NOS, since these sequences were present in more than one filing. For example, SEQ ID NO:87 and SEQ ID NO:1000 represent the same sequence.

In order to confirm the sequences of SEQ ID NOS:1-2502, inserts of the clones corresponding to these polynucleotides were re-sequenced. These "validation" sequences are provided in SEQ ID NOS:2503-5106. Of these validation sequences, SEQ ID NOS:3040, 3545, 3863, 4511, 4726, and 4749 are not true validation sequences. Instead, SEQ ID NOS:3545, 4511, 4726, and 4749 represent "placeholder" sequences, *i.e.*, sequences that were inserted into the Sequence Listing only to prevent renumbering of the subsequent sequences during generation of the Sequence Listing. Thus, reference to "SEQ ID NOS:1-5252," "SEQ ID NOS:1-5106," or other ranges of SEQ ID NOS that include these placeholder sequences should be read to exclude SEQ ID NOS:3545, 4511, 4726, and 4749.

The validation sequences were often longer than the original polynucleotide sequences they validate, and thus often provide additional sequence information. Validation sequences can be correlated with the original sequences they validate by referring to Table 1. For example, validation sequences of SEQ ID NOS:2503-3039, 3041-3544, 3546-3862 3864-4510, and 4512-4725 share the clone name of the sequence of SEQ ID NOS:1-2502 that they validate.

Example 2: Results of Public Database Search to Identify Function of Gene Products

SEQ ID NOS:1-2502, as well as the validation sequences SEQ ID NOS:2503-3039, 3041-3544, 3546-3862 3864-4510, and 4512-4725 xx:clf were translated in all three reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences. Query and individual sequences were

aligned using the BLAST programs, available over the world wide web at http://ww.ncbi.nlm.nih.gov/BLAST/. Again the sequences were masked to various extents to prevent searching of repetitive sequences or poly-A sequences, using the XBLAST program for masking low complexity as described above in Example 1.

Table 2 (inserted before the claims) shows the results of the alignments. Table 2 refers to each sequence by its SEQ ID NO:, the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches, and the p values of the search results.

For each of "SEQ ID NOS:1-5106," the best alignment to a protein or DNA sequence is included in Table 2. The activity of the polypeptide encoded by "SEQ ID NOS:1-5106" is the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence of "SEQ ID NOS:1-5106." The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of "SEQ ID NOS:1-5106."

"SEQ ID NOS:1-5106" and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences are suitable as diagnostics or therapeutics. As diagnostics, the human sequences "SEQ ID NOS:1-5106" exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides encoded by "SEQ ID NOS1-5106" are likely to be less immunogenic when administered to humans than homologs from other species. Further, on administration to humans, the polypeptides encoded by "SEQ ID NOS:1-5106" can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

Example 3: Members of Protein Families

The validation sequences ("SEQ ID NOS:2503-5106") were used to conduct a profile search as described in the specification above. Several of the polynucleotides of the invention were found to encode polypeptides having characteristics of a polypeptide

belonging to a known protein families (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 3, inserted prior to claims). Thus the invention encompasses fragments, fusions, and variants of such polynucleotides that retain biological activity associated with the protein family and/or functional domain identified herein.

Start and stop indicate the position within the individual sequences that align with the query sequence having the indicated SEQ ID NO. The direction (Dir) indicates the orientation of the query sequence with respect to the individual sequence, where forward (for) indicates that the alignment is in the same direction (left to right) as the sequence provided in the Sequence Listing and reverse (rev) indicates that the alignment is with a sequence complementary to the sequence provided in the Sequence Listing.

Some polynucleotides exhibited multiple profile hits because, for example, the particular sequence contains overlapping profile regions, and/or the sequence contains two different functional domains. These profile hits are described in more detail below. The acronyms used in Table 3 are provided in parentheses following the full name of the protein family or functional domain to which they refer.

a) Seven Transmembrane Integral Membrane Proteins -- Rhodopsin Family (7tm_1). Several of the validation sequences, and thus their corresponding sequence within SEQ ID NOS:1-2502, correspond to a sequence encoding a polypeptide that is a member of the seven transmembrane receptor rhodopsin family. G-protein coupled receptors of the seven transmembrane rhodopsin family (also called R7G) are an extensive group of hormones, neurotransmitters, and light receptors which transduce extracellular signals by interaction with guanine nucleotide-binding (G) proteins (Strosberg A.D. *Eur. J. Biochem.* (1991) *196*:1, Kerlavage A.R. *Curr. Opin. Struct. Biol.* (1991) *1*:394, Probst, et al., *DNA Cell Biol.* (1992) *11*:1, Savarese, et al., Biochem. J. (1992) *283*:1, http://www.gcrdb.uthscsa.edu/, http://swift.embl-heidelberg.de/7tm/. The receptors that are currently known to belong to this family are: 1) 5-hydroxytryptamine (serotonin) 1A to 1F, 2A to 2C, 4, 5A, 5B, 6 and 7 (Branchek T., *Curr. Biol.* (1993) *3*:315); 2) acetylcholine, muscarinic-type, M1 to M5; 3) adenosine A1, A2A, A2B and A3 (Stiles G.L. *J. Biol. Chem.* (1992) *267*:6451; 4) adrenergic alpha-1A to -1C; alpha-2A to -2D; beta-1 to -3 (Friell T. et al., *Trends Neurosci.* (1988) *11*:321); 5) angiotensin II types I and II; 6) bombesin subtypes 3 and 4; 7) bradykinin B1 and B2; 8) c3a and C5a anaphylatoxin; 9) cannabinoid CB1 and CB2; 10) chemokines C-C CC-CKR-1 to CC-CKR-8; 11)

Chemokines C-X-C CXC-CKR-1 to CXC-CKR-4; 12) Cholecystokinin-A and cholecystokinin-B/gastrin Dopamine D1 to D5 (Stevens C.F., *Curr. Biol.* (1991) *1*:20); 13) Endothelin ET-a and ET-b (Sakurai T. et al., *Trends Pharmacol. Sci.* (1992) *13*:103-107); 14) fMet-Leu-Phe (fMLP) (Nformyl peptide); 15) Follicle stimulating hormone (FSH-R); 16) Galanin; 17) Gastrin-releasing peptide (GRP-R); 18) Gonadotropin-releasing hormone (GNRH-R); 19) Histamine H1 and H2 (gastric receptor I); 20) Lutropin-choriogonadotropic hormone (LSH-R) (Salesse R., et al., *Biochimie* (1991) *73*:109); 21) Melanocortin MC1R to MC5R; 22) Melatonin; 23) Neuromedin B (NMB-R); 24) Neuromedin K (NK-3R); 25) Neuropeptide Y types 1 to 6; 26) Neurotensin (NT-R); 27) Octopamine (tyramine), from insects; 28) Odorants (Lancet D., et al., *Curr. Biol.* (1993)*3*:668; 29) Opioids delta-, kappa- and mu-types (Uhl G.R., et al., *Trends Neurosci.* (1994) *17*:89; 30) Oxytocin (OT-R); 31) Platelet activating factor (PAF-R); 32) Prostacyclin; 33) Prostaglandin D2; 34) Prostaglandin E2, EP1 to EP4 subtypes; 35) Prostaglandin F2; 36) Purinoreceptors (ATP) (Barnard E.A., et al., *Trends Pharmacol. Sci.* (1994)*15*:67; 37); Somatostatin types 1 to 5; 38) Substance-K (NK-2R); Substance-P (NK-1R); 39) Thrombin; 40) Thromboxane A2; 41) Thyrotropin (TSH-R) (Salesse R., et al., *Biochimie* (1991) *73*:109); 42) Thyrotropin releasing factor (TRH-R); 42) Vasopressin V1a, V1b and V2; 43) Visual pigments (opsins and rhodopsin) (Applebury M.L., et al., *Vision Res.* (1986) *26*:1881; 44) Proto-oncogene mas; 45) A number of orphan receptors (whose ligand is not known) from mammals and birds; 46) Caenorhabditis elegans putative receptors C06G4.5, C38C10.1, C43C3.2; 47) T27D1.3 and ZC84.4; 48) Three putative receptors encoded in the genome of cytomegalovirus: US27, US28, and UL33; and 49) ECRF3, a putative receptor encoded in the genome of herpesvirus saimiri.

The structure of these receptors is thought to be identical. They have seven hydrophobic regions, each of which most probably spans the membrane. The N-terminus is located on the extracellular side of the membrane and is often glycosylated, while the C-terminus is cytoplasmic and generally phosphorylated. Three extracellular loops alternate with three intracellular loops to link the seven transmembrane regions. Most, but not all of these receptors, lack a signal peptide. The most conserved parts of these proteins are the transmembrane regions and the first two cytoplasmic loops. A conserved acidic-Arg-aromatic triplet is present in the N-terminal extremity of the second cytoplasmic loop (Attwood T.K., Eliopoulos E.E., Findlay J.B.C. *Gene* (1991) *98*:153-159) and could be implicated in the interaction with G proteins.

A consensus pattern that contains the conserved triplet and that also spans the major part of the third transmembrane helix is used to detect this widespread family of proteins: [GSTALIVMFYWC]-[GSTANCPDE]-{EDPKRH}-x(2)-[LIVMNQGA]-x(2)- [LIVMFT]-[GSTANC]-[LIVMFYWSTAC]-[DENH]-R-[FYWCSH]-x(2)- [LIVM].

b) Seven Transmembrane Integral Membrane Proteins -- Secretin Family (7tm_2). Several of the validation sequences, and thus their corresponding sequence within SEQ ID NOS:1-2502, correspond to a sequence encoding a polypeptide that is a member of the seven transmembrane receptor secretin family. A number of peptide hormones bind to G-protein coupled receptors that, while structurally similar to the majority of G-protein coupled receptors (R7G) (see profile for 7 transmembrane receptors (rhodopsin family), do not show any similarity at the level of their sequence, thus new family whose current known members (Jueppner et al. *Science* (1991) *254*:1024; Hamann et al. *Genomics* (1996) *32*:144).are: 1) calcitonin receptor, 2) calcitonin gene-related peptide receptor; 3) corticotropin releasing factor receptor types 1 and 2; 4) gastric inhibitory polypeptide receptor; 5) glucagon receptor; 6) glucagon-like peptide 1 receptor; 7) growth hormone-releasing hormone receptor; 7) parathyroid hormone / parathyroid hormone-related peptide types 1 and 2; 8) pituitary adenylate cyclase activating polypeptide receptor; 9) secretin receptor; 10) vasoactive intestinal peptide receptor types 1 and 2; 10) insects diuretic hormone receptor; 11) Caenorhabditis elegans putative receptor C13B9.4; 12) Caenorhabditis elegans putative receptor ZK643.3; 13) human leucocyte CD97 (which contains 3 EGF-like domains in its N-terminal section); 14) human cell surface glycoprotein EMR1 (which contains 6 EGF-like domains in it N-terminal section); and 15) mouse cell surface glycoprotein F4/80 (which contains 7 EGF-like domains in its N-terminal section). All of 1) through 10) are coupled to G-proteins which activate both adenylyl cyclase and the phosphatidylinositol-calcium pathway.

Like classical R7G the secretin family of 7 transmembrane proteins contain seven transmembrane regions. Their N-terminus is located on the extracellular side of the membrane and potentially glycosylated, while their C-terminus is cytoplasmic. But apart from these topological similarities they do not share any region of sequence similarity and are therefore probably not evolutionary related.

Every receptor in the 7 transmember secretin family is encoded on multiple exons, and several of these functionally distinct products. The N-terminal extracellular domain of these receptors contains five conserved cysteines residues that may be involved in disulfide

bonds, with a consensus pattern in the region that spans the first three cysteines. One of the most highly conserved regions spans the C-terminal part of the last transmembrane region and the beginning of the adjacent intracellular region. This second region is used as a second signature pattern. The two consensus patterns are:

1) C-x(3)-[FYWLIV]-D-x(3,4)-C-[FW]-x(2)-[STAGV]-x(8,9)-C-[PF]

2) Q-G-[LMFCA]-[LIVMFT]-[LIV]-x-[LIVFST]-[LIF]-[VFYH]-C- [LFY]-x-N-x(2)-V

c) Ank Repeats (ANK). SEQ IS NO:2656, and thus its corresponding sequence within SEQ ID NOS:1-2502, represents a polynucleotide encoding an Ank repeat-containing protein. The ankyrin motif is a 33 amino acid sequence named after the protein ankyrin which has 24 tandem 33-amino-acid motifs. Ank repeats were originally identified in the cell-cycle-control protein cdc10 (Breeden *et al., Nature* (1987) *329*:651). Proteins containing ankyrin repeats include ankyrin, myotropin, I-kappaB proteins, cell cycle protein cdc10, the Notch receptor (Matsuno *et al., Development* (1997) *124(21)*:4265); G9a (or BAT8) of the class III region of the major histocompatibility complex (Biochem J. 290:811-818, 1993), FABP, GABP, 53BP2, Lin12, glp-1, SW14, and SW16. The functions of the ankyrin repeats are compatible with a role in protein-protein interactions (Bork, *Proteins* (1993) *17(4)*:363; Lambert and Bennet, *Eur. J. Biochem.* (1993) *211*:1; Kerr *et al., Current Op. Cell Biol.* (1992) *4*:496; Bennet *et al., J. Biol. Chem.* (1980) *255*:6424).

The 90 kD N-terminal domain of ankyrin contains a series of 24 33-amino-acid ank repeats. (Lux *et al., Nature* (1990) *344*:36-42, Lambert *et al., PNAS USA* (1990) *87*:1730.) The 24 ank repeats form four folded subdomains of 6 repeats each. These four repeat subdomains mediate interactions with at least 7 different families of membrane proteins. Ankyrin contains two separate binding sites for anion exchanger dimers. One site utilizes repeat subdomain two (repeats 7-12) and the other requires both repeat subdomains 3 and 4 (repeats 13-24). Since the anion exchangers exist in dimers, ankyrin binds 4 anion exchangers at the same time (Michaely and Bennett, *J. Biol. Chem.* (1995) *270(37)*:22050). The repeat motifs are involved in ankyrin interaction with tubulin, spectrin, and other membrane proteins. (Lux *et al., Nature* (1990) *344*:36.)

The Rel/NF-kappaB/Dorsal family of transcription factors have activity that is controlled by sequestration in the cytoplasm in association with inhibitory proteins referred to as I-kappaB. (Gilmore, *Cell* (1990) *62*:841; Nolan and Baltimore, *Curr Opin Genet Dev.* (1992) *2*:211; Baeuerle, *Biochim Biophys Acta* (1991) *1072*:63; Schmitz *et al., Trends Cell*

Biol. (1991) *1*:130.) I-kappaB proteins contain 5 to 8 copies of 33 amino acid ankyrin repeats and certain NF-kappaB/rel proteins are also regulated by cis-acting ankyrin repeat containing domains including p105NF-kappaB which contains a series of ankyrin repeats (Diehl and Hannink, *J. Virol.* (1993) *67(12)*:7161). The I-kappaBs and Cactus (also containing ankyrin repeats) inhibit activators through differential interactions with the Rel-homology domain. The gene family includes proto-oncogenes, thus broadly implicating I-kappaB in the control of both normal gene expression and the aberrant gene expression that makes cells cancerous. (Nolan and Baltimore, *Curr Opin Genet Dev.* (1992) *2(2)*:211-220). In the case of rel/NF-kappaB and pp40/I-kappaB(, both the ankyrin repeats and the carboxy-terminal domain are required for inhibiting DNA-binding activity and direct association of pp40/I-kappaB(with rel/NF-kappaB protein. The ankyrin repeats and the carboxy-terminal of pp40/I-kappaB(form a structure that associates with the rel homology domain to inhibit DNA binding activity (Inoue *et al.*, *PNAS USA* (1992) *89*:4333).

The 4 ankyrin repeats in the amino terminus of the transcription factor subunit GABP are required for its interaction with the GABP subunit to form a functional high affinity DNA-binding protein. These repeats can be crosslinked to DNA when GABP is bound to its target sequence. (Thompson *et al.*, *Science* (1991) *253*:762; LaMarco *et al.*, *Science* (1991) *253*:789). Myotrophin, a 12.5 kDa protein having a key role in the initiation of cardiac hypertrophy, comprises ankyrin repeats. The ankyrin repeats are characteristic of a hairpin-like protruding tip followed by a helix-turn-helix motif. The V-shaped helix-turn-helix of the repeats stack sequentially in bundles and are stabilized by compact hydrophobic cores, whereas the protruding tips are less ordered.

d) Eukaryotic Aspartyl Proteases (asp). Several of the validation sequences, and thus their corresponding sequence within SEQ ID NOS:1-2502, correspond to a sequence encoding a novel eukaryotic aspartyl protease. Aspartyl proteases, known as acid proteases, (EC 3.4.23.-) are a widely distributed family of proteolytic enzymes (Foltmann B., *Essays Biochem.* (1981) *17*:52; Davies D.R., *Annu. Rev. Biophys. Chem.* (1990) *19*:189; Rao J.K.M., *et al.*, *Biochemistry* (1991) *30*:4663) known to exist in vertebrates, fungi, plants, retroviruses and some plant viruses. Aspartate proteases of eukaryotes are monomeric enzymes which consist of two domains. Each domain contains an active site centered on a catalytic aspartyl residue. The two domains most probably evolved from the duplication of an ancestral gene encoding a primordial domain. Currently known eukaryotic aspartyl proteases include: 1) Vertebrate gastric pepsins A and C (also known as

gastricsin); 2) Vertebrate chymosin (rennin), involved in digestion and used for making cheese; 3) Vertebrate lysosomal cathepsins D (EC 3.4.23.5) and E (EC 3.4.23.34); 4) Mammalian renin (EC 3.4.23.15) whose function is to generate angiotensin I from angiotensinogen in the plasma; 5) Fungal proteases such as aspergillopepsin A (EC 3.4.23.18), candidapepsin (EC 3.4.23.24), mucoropepsin (EC 3.4.23.23) (mucor rennin), endothiapepsin (EC 3.4.23.22), polyporopepsin (EC 3.4.23.29), and rhizopuspepsin (EC 3.4.23.21); and 6) Yeast saccharopepsin (EC 3.4.23.25) (proteinase A) (gene PEP4). PEP4 is implicated in posttranslational regulation of vacuolar hydrolases; 7) Yeast barrierpepsin (EC 3.4.23.35) (gene BAR1); a protease that cleaves alpha-factor and thus acts as an antagonist of the mating pheromone; and 8) Fission yeast sxa1 which is involved in degrading or processing the mating pheromones.

Most retroviruses and some plant viruses, such as badnaviruses, encode for an aspartyl protease which is an homodimer of a chain of about 95 to 125 amino acids. In most retroviruses, the protease is encoded as a segment of a polyprotein which is cleaved during the maturation process of the virus. It is generally part of the pol polyprotein and, more rarely, of the gag polyprotein. Because the sequence around the two aspartates of eukaryotic aspartyl proteases and around the single active site of the viral proteases is conserved, a single signature pattern can be used to identify members of both groups of proteases. The consensus pattern is: [LIVMFGAC]-[LIVMTADN]-[LIVFSA]-D-[ST]-G-[STAV]-[STAPDENQ]- x-[LIVMFSTNC]-x-[LIVMFGTA], where D is the active site residue.

e) ATPases Associated with Various Cellular Activities (ATPases). Several of the validation sequences, and thus their corresponding sequence within SEQ ID NOS:1-2502, correspond to a sequence that encodes a novel member of the "ATPases Associated with diverse cellular Activities" (AAA) protein family. The AAA protein family is composed of a large number of ATPases that share a conserved region of about 220 amino acids that contains an ATP-binding site (Froehlich *et al., J. Cell Biol.* (1991) *114*:443; Erdmann *et al. Cell* (1991) *64*:499; Peters *et al., EMBO J.* (1990) *9*:1757; Kunau *et al., Biochimie* (1993) *75*:209-224; Confalonieri *et al., BioEssays* (1995) *17*:639; http://yeamob.pci.chemie.uni-tuebingen.de/AAA/Description.html). The proteins that belong to this family either contain one or two AAA domains.

Proteins containing two AAA domains include: 1) Mammalian and drosophila NSF (N-ethylmaleimide-sensitive fusion protein) and the fungal homolog, SEC18, which are

involved in intracellular transport between the endoplasmic reticulum and Golgi, as well as between different Golgi cisternae; 2) Mammalian transitional endoplasmic reticulum ATPase (previously known as p97 or VCP), which is involved in the transfer of membranes from the endoplasmic reticulum to the golgi apparatus. This ATPase forms a ring-shaped homooligomer composed of six subunits. The yeast homolog, CDC48, plays a role in spindle pole proliferation; 3) Yeast protein PAS1 essential for peroxisome assembly and the related protein PAS1 from Pichia pastoris; 4) Yeast protein AFG2; 5) Sulfolobus acidocaldarius protein SAV and Halobacterium salinarium cdcH, which may be part of a transduction pathway connecting light to cell division.

Proteins containing a single AAA domain include: 1) Escherichia coli and other bacteria ftsH (or hflB) protein. FtsH is an ATP-dependent zinc metallopeptidase that degrades the heat-shock sigma-32 factor, and is an integral membrane protein with a large cytoplasmic C-terminal domain that contain both the AAA and the protease domains; 2) Yeast protein YME1, a protein important for maintaining the integrity of the mitochondrial compartment. YME1 is also a zinc-dependent protease; 3) Yeast protein AFG3 (or YTA10). This protein also contains an AAA domain followed by a zinc-dependent protease domain; 4) Subunits from regulatory complex of the 26S proteasome (Hilt *et al.*, *Trends Biochem. Sci.* (1996) *21*:96), which is involved in the ATP-dependent degradation of ubiquitinated proteins, which subunits include: a) Mammalian 4 and homologs in other higher eukaryotes, in yeast (gene YTA5) and fission yeast (gene mts2); b) Mammalian 6 (TBP7) and homologs in other higher eukaryotes and in yeast (gene YTA2); c) Mammalian subunit 7 (MSS1) and homologs in other higher eukaryotes and in yeast (gene CIM5 or YTA3); d) Mammalian subunit 8 (P45) and homologs in other higher eukaryotes and in yeast (SUG1 or CIM3 or TBY1) and fission yeast (gene let1); e) Other probable subunits include human TBP1, which influences HIV gene expression by interacting with the virus tat transactivator protein, and yeast YTA1 and YTA6; 5) Yeast protein BCS1, a mitochondrial protein essential for the expression of the Rieske iron-sulfur protein; 6) Yeast protein MSP1, a protein involved in intramitochondrial sorting of proteins; 7) Yeast protein PAS8, and the corresponding proteins PAS5 from Pichia pastoris and PAY4 from Yarrowia lipolytica; 8) Mouse protein SKD1 and its fission yeast homolog (SpAC2G11.06); 9) Caenorhabditis elegans meiotic spindle formation protein mei-1; 10) Yeast protein SAP1' 11) Yeast protein YTA7; and 12) Mycobacterium leprae hypothetical protein A2126A.

In general, the AAA domains in these proteins act as ATP-dependent protein clamps(Confalonieri *et al.* (1995) *BioEssays 17*:639). In addition to the ATP-binding 'A' and 'B' motifs, which are located in the N-terminal half of this domain, thereis a highly conserved region located in the central part of the domain which was used in the development of the signature pattern. The consensus pattern is: [LIVMT]-x-[LIVMT]-[LIVMF]-x-[GATMC]-[ST]-[NS]-x(4)-[LIVM]- D-x-A-[LIFA]-x-R.

f) Bcl-2 family (Bcl-2). SEQ ID NO:3404, and thus the corresponding sequence it validates, represents a polynucleotide encoding an apoptosis regulator protein of the Bcl-2 family. Active cell suicide (apoptosis) is induced by events such as growth factor withdrawal and toxins. It is controlled by regulators, which have either an inhibitory effect on programmed cell death (anti-apoptotic) or block the protective effect of inhibitors (pro-apoptotic) (Vaux, 1993, Curr. Biol. 3:877-878, and White, 1996, Genes Dev. 10:2859-2869). Many viruses have found a way of countering defensive apoptosis by encoding their own anti-apoptosis genes, preventing their target cells from dying prematurely.

All proteins belonging to the Bcl-2 family (Reed et al., 1996, Adv. Exp. Med. Biol. 406:99-112) contain either a BH1, BH2, BH3, or BH4 domain. All anti-apoptotic proteins contain BH1 and BH2 domains; some of them contain an additional N-terminal BH4 domain (Bcl-2, Bcl-x(L), Bcl-w), which is never seen in pro-apoptotic proteins, except for Bcl-x(S). On the other hand, all pro-apoptotic proteins contain a BH3 domain (except for Bad) necessary for dimerization with other proteins of Bcl-2 family and crucial for their killing activity; some of them also contain BH1 and BH2 domains (Bax, Bak). The BH3 domain is also present in some anti-apoptotic protein, such as Bcl-2 or Bcl-x(L). Proteins that are known to contain these domains are listed below.

1. Vertebrate protein Bcl-2. Bcl-2 blocks apoptosis; it prolongs the survival of hematopoietic cells in the absence of required growth factors and also in the presence of various stimuli inducing cellular death. Two isoforms of bcl-2 (alpha and beta) are generated by alternative splicing. Bcl-2 is expressed in a wide range of tissues at various times during development. It forms heterodimers with the Bax proteins.

2. Vertebrate protein Bcl-x. Two isoforms of Bcl-x (Bcl-x(L) and Bcl-x(S)) are generated by alternative splicing. While the longer product (Bcl-x(L)) can protect a growth-factor-dependent cell line from apoptosis, the shorter form blocks the protective effect of Bcl-2 and Bcl-x(L) and acts as an anti-anti-apoptosis protein.

3. Mammalian protein Bax. Bax blocks the anti-apoptosis ability of Bcl-2 with which

it forms heterodimers. There is no evidence that Bax has any activity in the absence of Bcl-2. Three isoforms of bax (alpha, beta and gamma) are generated by alternative splicing.

4. Mammalian protein Bak, which promotes cell death and counteracts the protection from apoptosis provided by Bcl-2.

5. Mammalian protein Bcl-w, which promotes cell survival.

6. Mammalian protein bad, which promotes cell death, and counteracts the protection from apoptosis provided by Bcl-x(L), but not that of Bcl-2.

7. Human protein Bik, which promotes cell death, but cannot counteract the protection from apoptosis provided by Bcl-2.

8. Mouse protein Bid, which induces caspases and apoptosis, and counteracts the protection from apoptosis provided by Bcl-2.

9. Human induced myeloid leukemia cell differentiation protein MCL1. MCL1 is probably involved in programming of differentiation and concomitant maintenance of viability but not proliferation. Its expression increases early during phorbol ester induced differentiation in myeloid leukemia cell line ML-1.

10. Mouse hemopoietic-specific early response protein A1.

11. Mammalian activator of apoptosis Harakiri (Inohara et al., 1997, EMBO J. 16:1686-1694) (also known as neuronal death protein Dp5). This is a small protein of 92 residues that activates apoptosis. It contains a BH3 domain, but no BH1, BH2 or BH4 domains.

The following consensus patterns have been developed for the four BH domains:

1) [LVME]-[FT]-x-[GSD]-[GL]-x(1,2)-[NS]-[YW]-G-R-[LIV]- [LIVC]-[GAT]-[LIVMF](2)-x-F-[GSAE]-[GSARY]

2) W-[LIM]-x(3)-[GR]-G-[WQ]-[DENSAV]-x-[FLGA]-[LIVFTC]

3) [LIVAT]-x(3)-L-[KARQ]-x-[IVAL]-G-D-[DESG]-[LIMFV]-[DENSHQ]-[LVSHRQ]-[NSR]

4) [DS]-[NT]-R-[AE]-[LI]-V-x-[KD]-[FY]-[LIV]-[GHS]-Y-K-L- [SR]-Q-[RK]-G-[HY]-x-[CW].

g) Bromodomain (bromodomain). SEQ ID NOS:4036 and 4489, and thus the corresponding sequences they validate, represent polynucleotides encoding a polypeptide having a bromodomain region (Haynes et al., 1992, Nucleic Acids Res. 20:2693-2603, Tamkun et al., 1992, Cell 68:561-572, and Tamkun, 1995, Curr. Opin. Genet. Dev. 5:473-

477), which is a conserved region of about 70 amino acids found in the following proteins: 1) Higher eukaryotes transcription initiation factor TFIID 250 Kd subunit (TBP-associated factor p250) (gene CCG1); P250 is associated with the TFIID TATA-box binding protein and seems essential for progression of the G1 phase of the cell cycle. 2) Human RING3, a protein of unknown function encoded in the MHC class II locus; 3) Mammalian CREB-binding protein (CBP), which mediates cAMP-gene regulation by binding specifically to phosphorylated CREB protein; 4) Mammalian homologs of brahma, including three brahma-like human: SNF2a(hBRM), SNF2b, and BRG1; 5) Human BS69, a protein that binds to adenovirus E1A and inhibits E1A transactivation; 6) Human peregrin (or Br140).

The bromodomain is thought to be involved in protein-protein interactions and may be important for the assembly or activity of multicomponent complexes involved in transcriptional activation. The consensus pattern, which spans a major part of the bromodomain, is: [STANVF]-x(2)-F-x(4)-[DNS]-x(5,7)-[DENQTF]-Y-[HFY]-x(2)-[LIVMFY]-x(3)-[LIVM]-x(4)-[LIVM]-x(6,8)-Y-x(12,13)-[LIVM]-x(2)-N-[SACF]-x(2)-[FY].

h) Basic Region Plus Leucine Zipper Transcription Factors (BZIP). SEQ ID NO:3408, 2951, and 4850, and thus the corresponding sequences these sequences validate, represent polynucleotides encoding a novel member of the family of basic region plus leucine zipper transcription factors. The bZIP superfamily (Hurst, *Protein Prof.* (1995) *2*:105; and Ellenberger, *Curr. Opin. Struct. Biol.* (1994) *4*:12) of eukaryotic DNA-binding transcription factors encompasses proteins that contain a basic region mediating sequence-specific DNA-binding followed by a leucine zipper required for dimerization. Members of the family include transcription factor AP-1, which binds selectively to enhancer elements in the cis control regions of SV40 and metallothionein IIA. AP-1, also known as c-jun, is the cellular homolog of the avian sarcoma virus 17 (ASV17) oncogene v-jun.
Other members of this protein family include jun-B and jun-D, probable transcription factors that are highly similar to jun/AP-1; the fos protein, a proto-oncogene that forms a non-covalent dimer with c-jun; the fos-related proteins fra-1, and fos B; and mammalian cAMP response element (CRE) binding proteins CREB, CREM, ATF-1, ATF-3, ATF-4, ATF-5, ATF-6 and LRF-1. The consensus pattern for this protein family is: [KR]-x(1,3)-[RKSAQ]-N-x(2)-[SAQ](2)-x-[RKTAENQ]-x-R-x-[RK].

i) Cyclins (cyclin). SEQ ID NOS:3618, 3895, and 4536, and thus the corresponding sequences these sequences validate, represent polynucleotides encoding

cyclins, and SEQ ID NO:55 and 56, respectively, show the corresponding full-length polynucleotides. SEQ ID NO:57 and 58 show, respectively, the translations of SEQ ID NO:55 and 56. Cyclins (Nurse, 1990, Nature 344:503-508; Norbury et al., 1991, Curr. Biol. 1:23-24; and Lew et al., 1992, Trends Cell Biol. 2:77-81) are eukaryotic proteins that play an active role in controlling nuclear cell division cycles. There are two main groups of cyclins. G2/M cyclins are essential for the control of the cell cycle at the G2/M (mitosis) transition. G2/M cyclins accumulate steadily during G2 and are abruptly destroyed as cells exit from mitosis (at the end of the M-phase). G1/S cyclins are essential for the control of the cell cycle at the G1/S (start) transition.

The best conserved region is in the central part of the cyclins' sequences, known as the "cyclin-box," from which a 32 residue consensus pattern was derived: R-x(2)-[LIVMSA]-x(2)-[FYWS]-[LIVM]-x(8)-[LIVMFC]-x(4)-[LIVMFYA]-x(2)-[STAGC]-[LIVMFYQ]-x-[LIVMFYC]-[LIVMFY]-D-[RKH]-[LIVMFYW].

j) Eukaryotic thiol (cysteine) proteases active sites (Cys-protease). SEQ ID NOS:3344, 3684, 3688, and 4801, and thus also the sequences they validate, repreasent polynucleotides encoding proteins having a eukaryotic thiol (cysteine) protease active site. Eukaryotic thiol proteases (Dufour E., *Biochimie* (1988) *70*:1335); are a family of proteolytic enzymes which contain an active site cysteine. Catalysis proceeds through a thioester intermediate and is facilitated by a nearby histidine side chain; an asparagine completes the essential catalytic triad. The proteases that belong to this family are: 1) vertebrate lysosomal cathepsins B (Kirschke H., et al., *Protein Prof.* (1995) *2*:1587-1643); 2) vertebrate lysosomal dipeptidyl peptidase I (also known as cathepsin C) (Kirschke H., et al., *supra*); 3) vertebrate calpains (Calpains are intracellular calcium-activated thiol protease that contain both an N-terminal catalytic domain and a C-terminal calcium-binding domain); 4) mammalian cathepsin K, which seems involved in osteoclastic bone resorption (Shi G.-P., et al., *FEBS Lett.* (1995) *357*:129); 5) human cathepsin O ([4] Velasco G., Ferrando A.A., Puente X.S., Sanchez L.M., Lopez-Otin C. *J. Biol. Chem.* (1994) *269*:27136); 6) bleomycin hydrolase (which catalyzes the inactivation of the antitumor drug BLM (a glycopeptide)); 7) Plant enzymes such as: barley aleurain, EP-B1/B4; kidney bean EP-C1, rice bean SH-EP; kiwi fruit actinidin; papaya latex papin, chymopapain, caricain, and proteinase IV; pea turgor-responsive protein 15A; pineapple stem bromelain; rape COT44; rice oryzain alpha, beta, and gamma; tomato low-temperature induced, Arabidopsis thaliana A494, RD19A and RD21A; 8) - House-dust

mites allergens DerP1 and EurM1; 9) cathepsin B-like proteinases from the worms Caenorhabditis elegans (genes gcp-1, cpr-3, cpr-4, cpr-5 and cpr-6), Schistosoma mansoni (antigen SM31) and Japonica (antigen SJ31), Haemonchus contortus (genes AC-1 and AC-2), and Ostertagia ostertagi (CP-1 and CP-3); 10) slime mold cysteine proteinases CP1 and CP2; 11) cruzipain from Trypanosoma cruzi and brucei; 12) throphozoite cysteine proteinase (TCP) from various Plasmodium species; 13) proteases from Leishmania mexicana, Theileria annulata and Theileria parva; 14) Baculoviruses cathepsin-like enzyme (v-cath); 15) Drosophila small optic lobes protein (gene sol), a neuronal protein that contains a calpain-like domain; 16) yeast thiol protease BLH1/YCP1/LAP3; 17) Caenorhabditis elegans hypothetical protein C06G4.2, a calpain-like protein.

In addition, two bacterial peptidases are also part of this family: 1) aminopeptidase C from Lactococcus lactis (gene pepC) (Chapot-Chartier M.P., et al., *Appl. Environ. Microbiol.* (1993) *59*:330); and 2) thiol protease tpr from Porphyromonas gingivalis. Three other proteins are structurally related to this family, but may have lost their proteolytic activity. These include: 1) soybean oil body protein P34 (which has its active site cysteine replaced by a glycine); 2) rat testin (which is a sertoli cell secretory protein highly similar to cathepsin L but with the active site cysteine is replaced by a serine); and 3) Plasmodium falciparum serine-repeat protein (SERA) (which is the major blood stage antigen and possesses a C-terminal thiol-protease-like domain (Higgins D.G., et al., *Nature* (1989) *340*:604), with the active site cysteine is replaced by a serine).

The sequences around the three active site residues are well conserved and can be used as signature patterns:

Consensus pattern #1: Q-x(3)-[GE]-x-C-[YW]-x(2)-[STAGC]-[STAGCV] (where C is the active site residue)

Consensus pattern #2: [LIVMGSTAN]-x-H-[GSACE]-[LIVM]-x-[LIVMAT](2)-G-x-[GSADNH] (where H is the active site residue);

Consensus patern #3: [FYCH]-[WI]-[LIVT]-x-[KRQAG]-N-[ST]-W-x(3)-[FYW]-G-x(2)-G- [LFYW]-[LIVMFYG]-x-[LIVMF] (where N is the active site residue).

k) Phorbol Esters/Diacylglycerol Binding (DAG_PE_bind). SEQ ID NO:4659, and thus the sequence it validates, represents a polynucleotide encoding a protein belonging to the family including phorbol esters/diacylglycerol binding proteins. Diacylglycerol (DAG) is an important second messenger. Phorbol esters (PE) are analogues of DAG and potent tumor promoters that cause a variety of physiological changes when administered to both

cells and tissues. DAG activates a family of serine/threonine protein kinases, collectively known as protein kinase C (PKC) (Azzi *et al.*, *Eur. J. Biochem.* (1992) *208*:547). Phorbol esters can directly stimulate PKC. The N-terminal region of PKC, known as C1, has been shown (Ono *et al.*, *Proc. Natl. Acad. Sci. USA* (1989) *86*:4868) to bind PE and DAG in a phospholipid and zinc-dependent fashion. The C1 region contains one or two copies (depending on the isozyme of PKC) of a cysteine-rich domain about 50 amino-acid residues long and essential for DAG/PE-binding. Such a domain has also been found in, for example, the following proteins.

(1) Diacylglycerol kinase (EC 2.7.1.107) (DGK) (Sakane *et al.*, *Nature* (1990) *344*:345), the enzyme that converts DAG into phosphatidate. It contains two copies of the DAG/PE-binding domain in its N-terminal section. At least five different forms of DGK are known in mammals; and

(2) N-chimaerin, a brain specific protein which shows sequence similarities with the BCR protein at its C-terminal part and contains a single copy of the DAG/PE-binding domain at its N-terminal part. It has been shown (Ahmed *et al.*, *Biochem. J.* (1990) *272*:767, and Ahmed *et al.*, *Biochem. J.* (1991) *280*:233) to be able to bind phorbol esters.

The DAG/PE-binding domain binds two zinc ions; the ligands of these metal ions are probably the six cysteines and two histidines that are conserved in this domain. The signature pattern completely spans the DAG/PE domain. The consensus pattern is: H-x-[LIVMFYW]-x(8,11)-C-x(2)-C-x(3)-[LIVMFC]-x(5,10)-C-x(2)-C-x(4)-[HD]-x(2)-C-x(5,9)-C. All the C and H are probably involved in binding zinc.

l) DEAD and DEAH box families ATP-dependent helicases signatures (Dead_box_helic). SEQ ID NOS:4821 and 5083, and thus the sequences they validate, represent polynucleotides encoding a novel member of the DEAD box family. A number of eukaryotic and prokaryotic proteins have been characterized (Schmid S.R., et al., *Mol. Microbiol.* (1992) *6*:283; Linder P., et al., *Nature* (1989) *337*:121; Wassarman D.A., et al., *Nature* (1991) *349*:463) on the basis of their structural similarity. All are involved in ATP-dependent, nucleic-acid unwinding. Proteins currently known to belong to this family are:

1) Initiation factor eIF-4A. Found in eukaryotes, this protein is a subunit of a high molecular weight complex involved in 5'cap recognition and the binding of mRNA to ribosomes. It is an ATP-dependent RNA-helicase.

2) PRP5 and PRP28. These yeast proteins are involved in various ATP-requiring steps of the pre-mRNA splicing process.

3) Pl10, a mouse protein expressed specifically during spermatogenesis.

4) An3, a Xenopus putative RNA helicase, closely related to Pl10.

5) SPP81/DED1 and DBP1, two yeast proteins involved in pre-mRNA splicing and related to Pl10.

6) Caenorhabditis elegans helicase glh-1.

7) MSS116, a yeast protein required for mitochondrial splicing.

8) SPB4, a yeast protein involved in the maturation of 25S ribosomal RNA.

9) p68, a human nuclear antigen. p68 has ATPase and DNA-helicase activities in vitro. It is involved in cell growth and division.

10) Rm62 (p62), a Drosophila putative RNA helicase related to p68.

11) DBP2, a yeast protein related to p68.

12) DHH1, a yeast protein.

13) DRS1, a yeast protein involved in ribosome assembly.

14) MAK5, a yeast protein involved in maintenance of dsRNA killer plasmid.

15) ROK1, a yeast protein.

16) ste13, a fission yeast protein.

17) Vasa, a Drosophila protein important for oocyte formation and specification of embryonic posterior structures.

18) Me31B, a Drosophila maternally expressed protein of unknown function.

19) dbpA, an Escherichia coli putative RNA helicase.

20) deaD, an Escherichia coli putative RNA helicase which can suppress a mutation in the rpsB gene for ribosomal protein S2.

21) rhlB, an Escherichia coli putative RNA helicase.

22) rhlE, an Escherichia coli putative RNA helicase.

23) rmB, an Escherichia coli protein that shows RNA-dependent ATPase activity, which interacts with 23S ribosomal RNA.

24) Caenorhabditis elegans hypothetical proteins T26G10.1, ZK512.2 and ZK686.2.

25) Yeast hypothetical protein YHR065c.

26) Yeast hypothetical protein YHR169w.

27) Fission yeast hypothetical protein SpAC31A2.07c.

28) Bacillus subtilis hypothetical protein yxiN.

All of the above proteins share a number of conserved sequence motifs. Some of them are specific to this family while others are shared by other ATP-binding proteins or by proteins belonging to the helicases 'superfamily' (Hodgman T.C., *Nature* (1988) *333*:22 and *Nature* (1988) *333*:578 (Errata); http://www.expasy.ch/www/linder/HELICASES_TEXT.html). One of these motifs, called the 'D-E-A-D-box', represents a special version of the B motif of ATP-binding proteins. Some other proteins belong to a subfamily which have His instead of the second Asp and are thus said to be 'D-E-A-H-box' proteins (Wassarman D.A., et al., *Nature* (1991) *349*:463; Harosh I., et al., *Nucleic Acids Res.* (1991) *19*:6331; Koonin E.V., et al., *J. Gen. Virol.* (1992) *73*:989; http://www.expasy.ch/www/linder/HELICASES_TEXT.html). Proteins currently known to belong to this DEAH subfamily are:

1) PRP2, PRP16, PRP22 and PRP43. These yeast proteins are all involved in various ATP-requiring steps of the pre-mRNA splicing process. 2) Fission yeast prh1, which my be involved in pre-mRNA splicing. 3) Male-less (mle), a Drosophila protein required in males, for dosage compensation of X chromosome linked genes. 4) RAD3 from yeast. RAD3 is a DNA helicase involved in excision repair of DNA damaged by UV light, bulky adducts or cross-linking agents. Fission yeast rad15 (rhp3) and mammalian DNA excision repair protein XPD (ERCC-2) are the homologs of RAD3. 5) Yeast CHL1 (or CTF1), which is important for chromosome transmission and normal cell cycle progression in G(2)/M. 6) Yeast TPS1. 7) Yeast hypothetical protein YKL078w. 8) Caenorhabditis elegans hypothetical proteins C06E1.10 and K03H1.2. 9) Poxviruses' early transcription factor 70 Kd subunit which acts with RNA polymerase to initiate transcription from early gene promoters. 10) I8, a putative vaccinia virus helicase. 11) hrpA, an Escherichia coli putative RNA helicase.

The following signature patterns are used to identify member for both subfamilies:

Consensus pattern: [LIVMF](2)-D-E-A-D-[RKEN]-x-[LIVMFYGSTN]

Consensus pattern: [GSAH]-x-[LIVMF](3)-D-E-[ALIV]-H-[NECR].

m) EF Hand (EFhand). Several of the validation sequences, and thus the sequences they validate, correspond to polynucleotides encoding a novel protein in the family of EF-hand proteins. Many calcium-binding proteins belong to the same evolutionary family and share a type of calcium-binding domain known as the EF-hand (Kawasaki *et al.*, *Protein. Prof.* (1995) *2*:305-490). This type of domain consists of a twelve residue loop flanked on both sides by a twelve residue alpha-helical domain. In an EF-hand loop the calcium ion is

coordinated in a pentagonal bipyramidal configuration. The six residues involved in the binding are in positions 1, 3, 5, 7, 9 and 12; these residues are denoted by X, Y, Z, -Y, -X and -Z. The invariant Glu or Asp at position 12 provides two oxygens for liganding Ca (bidentate ligand).

Proteins known to contain EF-hand regions include: Calmodulin (Ca=4, except in yeast where Ca=3) ("Ca=" indicates approximate number of EF-hand regions); diacylglycerol kinase (EC 2.7.1.107) (DGK) (Ca=2); 2) FAD-dependent glycerol-3-phosphate dehydrogenase (EC 1.1.99.5) from mammals (Ca=1); guanylate cyclase activating protein (GCAP) (Ca=3); MIF related proteins 8 (MRP-8 or CFAG) and 14 (MRP-14) (Ca=2); myosin regulatory light chains (Ca=1); oncomodulin (Ca=2); osteonectin (basement membrane protein BM-40) (SPARC); and proteins that contain an "osteonectin" domain (QR1, matrix glycoprotein SC1).

The consensus pattern includes the complete EF-hand loop as well as the first residue which follows the loop and which seem to always be hydrophobic: D-x-[DNS]-{ILVFYW}-[DENSTG]-[DNQGHRK]-{GP}-[LIVMC]-[DENQSTAGC]-x(2)-[DE]-[LIVMFYW].

n) Ets Domain (Ets_Nterm). SEQ ID NO:2849, and thus the sequence it validates, represents a polynucleotide encoding a polypeptide with N-terminal homology in ETS domain. Proteins of this family contain a conserved domain, the "ETS-domain," that is involved in DNA binding. The domain appears to recognize purine-rich sequences; it is about 85 to 90 amino acids in length, and is rich in aromatic and positively charged residues (Wasylyk, et al., , *Eur. J. Biochem.* (1993) *211*:718).

The *ets* gene family encodes a novel class of DNA-binding proteins, each of which binds a specific DNA sequence. These proteins comprise an *ets* domain that specifically interacts with sequences containing the common core tri-nucleotide sequence GGA. In addition to an *ets* domain, native *ets* proteins comprise other sequences which can modulate the biological specificity of the protein. *Ets* genes and proteins are involved in a variety of essential biological processes including cell growth, differentiation and development, and three members are implicated in oncogenic process.

o) Type II fibronectin collagen-binding domain (FntypeII). A few of the validation sequences, and thus the sequences they validate, represent polynucleotides encoding a polypeptide having a type II fibronectin collagen binding domain. Fibronectin is a plasma protein that binds cell surfaces and various compounds including collagen, fibrin, heparin,

DNA, and actin. The major part of the sequence of fibronectin consists of the repetition of three types of domains, which are called type I, II, and III (Skorstengaard K., et al., *Eur. J. Biochem.* (1986) *161*:441). Type II domain is approximately forty residues long, contains four conserved cysteines involved in disulfide bonds and is part of the collagen-binding region of fibronectin. In fibronectin the type II domain is duplicated. Type II domains have also been found in the following proteins: 1) blood coagulation factor XII (Hageman factor) (1 copy); 2) bovine seminal plasma proteins PDC-109 (BSP-A1/A2) and BSP-A3 (Seidah N.G., et al., *Biochem. J.* (1987) *243*:195. (twice); 3) cation-independent mannose-6-phosphate receptor (which is also the insulin-like growth factor II receptor) Kornfeld S., *Annu. Rev. Biochem.* (1992) *61*:307) (1 copy); 4) Mannose receptor of macrophages (Taylor M.E., et al., *J. Biol. Chem.* (1990) *265*:12156) (1 copy); 5) 180 Kd secretory phospholipase A2 receptor (1 copy) Lambeau G., et al., *J. Biol. Chem.* (1994) *269*:1575; 6) DEC-205 receptor (1 copy); 6) Jiang W., et al., *Nature* (1995) *375*:151); 7) 72 Kd type IV collagenase (EC 3.4.24.24) (MMP-2) (Collier I.E., et al., *J. Biol. Chem.* (1988) *263*:6579) (3 copies); 7) 92 Kd type IV collagenase (EC 3.4.24.24) (MMP-9) (3 copies); 8) Hepatocyte growth factor activator (Miyazawa K., et al., *J. Biol. Chem.* (1993) *268*:10024) (1 copy).

A schematic representation of the position of the invariant residues and the topology of the disulfide bonds in fibronectin type II domain is shown below:

xxCxxPFx#xxxxxxxCxxxxxxxxWCxxxxx#xxx#x#Cxx

where 'C' represents the conserved cysteine involved in a disulfide bond and '#' represents a large hydrophobic residue. The consensus pattern for identifying members of this family, which pattern spans this entire domain, is: C-x(2)-P-F-x-[FYWI]-x(7)-C-x(8,10)-W-C-x(4)-[DNSR]-[FYW]- x(3,5)-[FYW]-x-[FYWI]-C (where the four C's are involved in disulfide bonds).

p) G-Protein Alpha Subunit (G-alpha). Several of the validation sequences, and thus the sequences they validate, correspond to a gene encoding a novel polypeptide of the G-protein alpha subunit family. Guanine nucleotide binding proteins (G-proteins) are a family of membrane-associated proteins that couple extracellularly-activated integral-membrane receptors to intracellular effectors, such as ion channels and enzymes that vary the concentration of second messenger molecules. G-proteins are composed of 3 subunits (alpha, beta and gamma) which, in the resting state, associate as a trimer at the inner face of

the plasma membrane. The alpha subunit has a molecule of guanosine diphosphate (GDP) bound to it. Stimulation of the G-protein by an activated receptor leads to its exchange for GTP (guanosine triphosphate). This results in the separation of the alpha from the beta and gamma subunits, which always remain tightly associated as a dimer. Both the alpha and beta-gamma subunits are then able to interact with effectors, either individually or in a cooperative manner. The intrinsic GTPase activity of the alpha subunit hydrolyses the bound GTP to GDP. This returns the alpha subunit to its inactive conformation and allows it to reassociate with the beta-gamma subunit, thus restoring the system to its resting state.

G-protein alpha subunits are 350-400 amino acids in length and have molecular weights in the range 40-45 kDa. Seventeen distinct types of alpha subunit have been identified in mammals. These fall into 4 main groups on the basis of both sequence similarity and function: alpha-s, alpha-q, alpha-i and alpha-12 (Simon *et al.*, *Science* (1993) *252*:802). Many alpha subunits are substrates for ADP-ribosylation by cholera or pertussis toxins. They are often N-terminally acylated, usually with myristate and/or palmitoylate, and these fatty acid modifications are probably important for membrane association and high- affinity interactions with other proteins. The atomic structure of the alpha subunit of the G-protein involved in mammalian vision, transducin, has been elucidated in both GTP- and GDB-bound forms, and shows considerable similarity in both primary and tertiary structure in the nucleotide-binding regions to other guanine nucleotide binding proteins, such as p21-ras and EF-Tu.

q) Helicases conserved C-terminal domain (helicase_C). SEQ ID NOS:2503, 4469, and 5020, and thus the sequences they validate, represent polynucleotides encoding novel members of the DEAD/H helicase family. The DEAD and DEAH families are described above.

r) Homeobox domain (homeobox). SEQ ID NO:4241, and thus the sequence it validates, represents a polynucleotide encoding a protein having a homeobox domain. The 'homeobox' is a protein domain of 60 amino acids (Gehring In: Guidebook to the Homebox Genes, Duboule D., Ed., pp1-10, Oxford University Press, Oxford, (1994); Buerglin In: Guidebook to the Homebox Genes, pp25-72, Oxford University Press, Oxford, (1994); Gehring *Trends Biochem. Sci.* (1992) *17*:277-280; Gehring *et alAnnu. Rev. Genet.* (1986) *20*:147-173; Schofield *Trends Neurosci.* (1987) *10*:3-6; http://copan.bioz.unibas.ch/homeo.html) first identified in number of Drosophila homeotic and segmentation proteins. It is extremely well conserved in many other animals, including vertebrates. This domain

binds DNA through a helix-turn-helix type of structure. Several proteins that contain a homeobox domain play an important role in development. Most of these proteins are sequence-specific DNA-binding transcription factors. The homeobox domain is also very similar to a region of the yeast mating type proteins. These are sequence-specific DNA-binding proteins that act as master switches in yeast differentiation by controlling gene expression in a cell type-specific fashion.

A schematic representation of the homeobox domain is shown below. The helix-turn-helix region is shown by the symbols 'H' (for helix), and 't' (for turn).

```
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxHHHHHHHHHtttHHHHHHHHHHxxxxxxxxxx
1                                                              60
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The pattern detects homeobox sequences 24 residues long and spans positions 34 to 57 of the homeobox domain. The consensus pattern is as follows: [LIVMFYG]-[ASLVR]-x(2)-[LIVMSTACN]-x-[LIVM]-x(4)-[LIV]-[RKNQESTAIY]-[LIVFSTNKH]-W-[FYVC]-x-[NDQTAH]-x(5)-[RKNAIMW].

x) MAP kinase kinase (mkk). Several validation sequences, and thus the sequences they validate, represent novel members of the MAP kinase kinase family. MAP kinases (MAPK) are involved in signal transduction, and are important in cell cycle and cell growth controls. The MAP kinase kinases (MAPKK) are dual-specificity protein kinases which phosphorylate and activate MAP kinases. MAPKK homologues have been found in yeast, invertebrates, amphibians, and mammals. Moreover, the MAPKK/MAPK phosphorylation switch constitutes a basic module activated in distinct pathways in yeast and in vertebrates. MAPKK regulation studies have led to the discovery of at least four MAPKK convergent pathways in higher organisms. One of these is similar to the yeast pheromone response pathway which includes the ste11 protein kinase. Two other pathways require the activation of either one or both of the serine/threonine kinase-encoded oncogenes c-Raf-1 and c-Mos. Additionally, several studies suggest a possible effect of the cell cycle control regulator cyclin-dependent kinase 1 (cdc2) on MAPKK activity. Finally, MAPKKs are apparently essential transducers through which signals must pass before reaching the nucleus. For review, see, *e.g.*, Biologique *Biol Cell* (1993) *79*:193-207; Nishida *et al.*, *Trends Biochem Sci* (1993) *18*:128-31; Ruderman *Curr Opin Cell Biol* (1993) *5*:207-13; Dhanasekaran *et al.*, *Oncogene* (1998) *17*:1447-55; Kiefer *et al.*, *Biochem Soc Trans* (1997) *25*:491-8; and Hill, *Cell Signal* (1996) *8*:533-44.

y) 3'5'-cyclic nucleotide phosphodiesterases signature (PDEase). SEQ ID NO:4482, and thus the sequence it validates, represents a polynucleotide encoding a novel 3'5'-cyclic nucleotide phosphodiesterases (PDEases). PDEases catalyze the hydrolysis of cAMP or cGMP to the corresponding nucleoside 5' monophosphates (Charbonneau H., et al, *Proc. Natl. Acad. Sci. U.S.A.* (1986) *83*:9308). There are at least seven different subfamilies of PDEases (Beavo J.A., et al., *Trends Pharmacol. Sci.* (1990) *11*:150; http://weber.u.washington.edu/~pde/: 1) Type 1, calmodulin/calcium-dependent PDEases; 2) Type 2, cGMP-stimulated PDEases; 3) Type 3, cGMP-inhibited PDEases; 4) Type 4, cAMP-specific PDEases.; 5) Type 5, cGMP-specific PDEases; 6) Type 6, rhodopsin-sensitive cGMP-specific PDEases; and 7) Type 7, High affinity cAMP-specific PDEases.

All PDEase forms share a conserved domain of about 270 residues. The signature pattern is determined from a stretch of 12 residues that contains two conserved histidines: H-D-[LIVMFY]-x-H-x-[AG]-x(2)-[NQ]-x-[LIVMFY].

z) Protein Kinase (protkinase). Several validation sequences, and thus the sequences they validate, represent polynucleotides encoding protein kinases. Protein kinases catalyze phosphorylation of proteins in a variety of pathways, and are implicated in cancer. Eukaryotic protein kinases (Hanks S.K., *et al.*, *FASEB J.* (1995) *9*:576; Hunter T., *Meth. Enzymol.* (1991) *200*:3; Hanks S.K., *et al.*, *Meth. Enzymol.* (1991) *200*:38; Hanks S.K., *Curr. Opin. Struct. Biol.* (1991) *1*:369; Hanks S.K., *et al.*, *Science* (1988) *241*:42) are enzymes that belong to a very extensive family of proteins which share a conserved catalytic core common to both serine/threonine and tyrosine protein kinases. There are a number of conserved regions in the catalytic domain of protein kinases. Two of the conserved regions are the basis for the signature pattern in the protein kinase profile. The first region, which is located in the N-terminal extremity of the catalytic domain, is a glycine-rich stretch of residues in the vicinity of a lysine residue, which has been shown to be involved in ATP binding. The second region, which is located in the central part of the catalytic domain, contains a conserved aspartic acid residue which is important for the catalytic activity of the enzyme (Knighton D.R., *et al.*, *Science* (1991) *253*:407). The protein kinase profile includes two signature patterns for this second region: one specific for serine/threonine kinases and the other for tyrosine kinases. A third profile is based on the alignment in (Hanks S.K., *et al.*, *FASEB J.* (1995) *9*:576) and covers the entire catalytic domain. The consensus patterns are as follows:

1) Consensus pattern: [LIV]-G-{P}-G-{P}-[FYWMGSTNH]-[SGA]-{PW}-[LIVCAT]-{PD}-x-[GSTACLIVMFY]-x(5,18)-[LIVMFYWCSTAR]-[AIVP]-[LIVMFAGCKR]-K, where K binds ATP. The majority of known protein kinases are detected by this pattern. Proteins kinases that are not detected by this consensus include viral kinases, which are quite divergent in this region and are completely missed bythis pattern.

2) Consensus pattern: [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-K-x(2)-N-[LIVMFYCT](3), where D is an active site residue. This consensus sequence identifies most serine/threonine-specific protein kinases with only 10 exceptions. Half of the exceptions are viral kinases, while the other exceptions include Epstein-Barr virus BGLF4 and Drosophila ninaC, which have Ser and Arg, respectively, instead of the conserved Lys. These latter two protein kinases are detected by the tyrosine kinase specific pattern described below.

3) Consensus pattern: [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-[RSTAC]-x(2)-N-[LIVMFYC], where D is an active site residue. All tyrosine-specific protein kinases are detected by this consensus pattern, with the exception of human ERBB3 and mouse blk. This pattern also detects most bacterial aminoglycoside phosphotransferases (Benner S., *Nature* (1987) *329*:21; Kirby R., *J. Mol. Evol.* (1992) *30*:489) and herpesviruses ganciclovir kinases (Littler E., *et al.*, *Nature* (1992) *358*:160), which are structurally and evolutionary related to protein kinases.

The protein kinase profile also detects receptor guanylate cyclases and 2-5A-dependent ribonucleases. Sequence similarities between these two families and the eukaryotic protein kinase family have been noticed previously. The profile also detects Arabidopsis thaliana kinase-like protein TMKL1 which seems to have lost its catalytic activity.

If a protein analyzed includes the two of the above protein kinase signatures, the probability of it being a protein kinase is close to 100%. Eukaryotic-type protein kinases have also been found in prokaryotes such as Myxococcus xanthus (Munoz-Dorado J., *et al.*, *Cell* (1991) *67*:995) and Yersinia pseudotuberculosis. The patterns shown above has been updated since their publication in (Bairoch A., *et al.*, *Nature* (1988) *331*:22).

aa) Ras family proteins (ras). SEQ IDNO:3671, and thus the sequence it validates, represent polynucleotides encoding the ras family of small GTP/GDP-binding proteins (Valencia et al., 1991, Biochemistry 30:4637-4648). Ras family members generally require

a specific guanine nucleotide exchange factor (GEF) and a specific GTPase activating protein (GAP) as stimulators of overall GTPase activity. Among ras-related proteins, the highest degree of sequence conservation is found in four regions that are directly involved in guanine nucleotide binding. The first two constitute most of the phosphate and Mg2+ binding site (PM site) and are located in the first half of the G-domain. The other two regions are involved in guanosine binding and are located in the C-terminal half of the molecule. Motifs and conserved structural features of the ras-related proteins are described in Valencia et al., 1991, Biochemistry 30:4637-4648.

A major consensus pattern of ras proteins is: D-T-A-G-Q-E-K-[LF]-G-G-L-R-[DE]-G-Y-Y.

bb) Thioredoxin family active site (Thioredox). SEQ ID NO:3936, and thus the sequence it validates, represent a polynucleotide encoding a protein having a thioredoxin family active site. Thioredoxins (Holmgren A., *Annu. Rev. Biochem.* (1985) *54*:237; Gleason F.K., et al., *FEMS Microbiol. Rev.* (1988) *54*:271; Holmgren A. *J. Biol. Chem.* (1989) *264*:13963; Eklund H., et al. *Proteins* (1991) *11*:13) are small proteins of approximately one hundred amino- acid residues which participate in various redox reactions via the reversible oxidation of an active center disulfide bond. They exist in either a reduced form or an oxidized form where the two cysteine residues are linked in an intramolecular disulfide bond. Thioredoxin is present in prokaryotes and eukaryotes and the sequence around the redox-active disulfide bond is well conserved.

A number of eukaryotic proteins contain domains evolutionary related to thioredoxin, and all of them are protein disulphide isomerases (PDI). PDI (Freedman R.B., et al., *Biochem. Soc. Trans.* (1988) *16*:96; Kivirikko K.I., et al., *FASEB J.* (1989) *3*:1609; Freedman R.B., et al. *Trends Biochem. Sci.* (1994) *19*:331) is an endoplasmic reticulum enzyme that catalyzes the rearrangement of disulfide bonds in various proteins. The various forms of PDI which are currently known are: 1) PDI major isozyme; a multifunctional protein that also function as the beta subunit of prolyl 4-hydroxylase (EC 1.14.11.2), as a component of oligosaccharyl transferase (EC 2.4.1.119), as thyroxine deiodinase, as glutathione-insulin transhydrogenase, and as a thyroid hormone-binding protein; 2) ERp60 (ER-60; 58 Kd microsomal protein), which is a protease; 3) ERp72; and 4) P5.

All PDI contains two or three (ERp72) copies of the thioredoxin domain. The consensus pattern is: [LIVMF]-[LIVMSTA]-x-[LIVMFYC]-[FYWSTHE]-x(2)-

[FYWGTN]-C- [GATPLVE]-[PHYWSTA]-C-x(6)-[LIVMFYWT] (where the two C's form the redox-active bond.

cc) TNFR/NGFR family cysteine-rich region (TNFR_c6). SEQ ID NO:3927, and thus the sequence it validates, represent a polynucleotide encoding a protein having a TNFR/NGFR family cysteine-rich region. A number of proteins, some of which are known to be receptors for growth factors, have been found to contain a cysteine-rich domain of about 110 to 160 amino acids in their N-terminal part, that can be subdivided into four (or in some cases, three) modules of about 40 residues containing 6 conserved cysteines. Proteins known to belong to this family (Mallet S., et al., *Immunol. Today* (1991) 12:220; Sprang S.R., *Trends Biochem. Sci.* (1990) 15:366; Krammer P.H., et al., *Curr. Biol.* (1992) 2:383; Bazan J.F., *Curr. Biol.* (1993) *3*:603) are: 1) Tumor Necrosis Factor type I and type II receptors (TNFR) (Both receptors bind TNF-alpha and TNF-beta, but are only similar in the cysteine-rich region.); 2) Shope fibroma virus soluble TNF receptor (protein T2); 3) Lymphotoxin alpha/beta receptor; 4) Low-affinity nerve growth factor receptor (LA-NGFR); 5) CD40 (Bp50), the receptor for the CD40L (or TRAP) cytokine; 6) CD27, the receptor for the CD27L cytokine; 8) CD30, the receptor for the CD30L cytokine; 9) T-cell protein 4-1BB, the receptor for the 4-1BBL putative cytokine; 10) FAS antigen (or APO-1), the receptor for FASL, a protein involved in apoptosis (programmed cell death); 11) T-cell antigen OX40, the receptor for the OX40L cytokine; 12) Wsl-1, a receptor (for a yet undefined ligand) that mediates apoptosis; 13) Vaccinia virus protein A53 (SalF19R).

The six cysteines all involved in intrachain disulfide bonds (Banner D.W., et al, *Cell* (1993) *73*:431). A schematic representation of the structure of the 40 residue module of these receptors is shown below:

xCxxxxxxxxxxxxxCxCxxCxxxxxxxxxCxxxxCxx

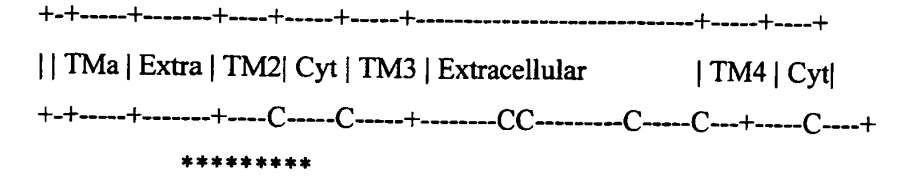
where 'C' represents the conserved cysteine involved in a disulfide bond. The signature pattern for the cysteine-rich region is based mainly on the position of the six conserved cysteines in each of the repeats: Consensus pattern: C-x(4,6)-[FYH]-x(5,10)-C-x(0,2)-C-x(2,3)-C-x(7,11)-C-x(4,6)-[DNEQSKP]-x(2)-C (where the six C's are involved in disulfide bonds).

dd) Four Transmembrane Integral Membrane Proteins (transmembrane4). Several of the validation sequences, and thus the sequences they validate, correspond to a sequence encoding a polypeptide that is a member of the 4 transmembrane segments integral

membrane protein family (transmembrane 4 family). The transmembrane 4 family of proteins includes a number of evolutionarily-related eukaryotic cell surface antigens (Levy *et al.*, *J. Biol. Chem.*, (1991) *266*:14597; Tomlinson *et al.*, *Eur. J. Immunol.* (1993) *23*:136; Barclay *et al.* The leucocyte antigen factbooks. (1993) Academic Press, London/San Diego). The proteins belonging to this family include: 1) Mammalian antigen CD9 (MIC3), which is involved in platelet activation and aggregation; 2) Mammalian leukocyte antigen CD37, expressed on B lymphocytes; 3) Mammalian leukocyte antigen CD53 (OX-44), which is implicated in growth regulation in hematopoietic cells; 4) Mammalian lysosomal membrane protein CD63 (melanoma-associated antigen ME491; antigen AD1); 5) Mammalian antigen CD81 (cell surface protein TAPA-1), which is implicated in regulation of lymphoma cell growth; 6) Mammalian antigen CD82 (protein R2; antigen C33; Kangai 1 (KAI1)), which associates with CD4 or CD8 and delivers costimulatory signals for the TCR/CD3 pathway; 7) Mammalian antigen CD151 (SFA-1; platelet-endothelial tetraspan antigen 3 (PETA-3)); 8) Mammalian cell surface glycoprotein A15 (TALLA-1; MXS1); 9) Mammalian novel antigen 2 (NAG-2); 10) Human tumor-associated antigen CO-029; 11) Schistosoma mansoni and japonicum 23 Kd surface antigen (SM23 / SJ23).

The members of the 4 transmembrane family share several characteristics. First, they all are apparently type III membrane proteins, which are integral membrane proteins containing an N-terminal membrane-anchoring domain which is not cleaved during biosynthesis and which functions both as a translocation signal and as a membrane anchor. The family members also contain three additional transmembrane regions, at least seven conserved cysteines residues, and are of approximately the same size (218 to 284 residues). These proteins are collectively know as the "transmembrane 4 superfamily" (TM4) because they span plasma membrane four times.

A schematic diagram of the domain structure of these proteins is as follows:



where Cyt is the cytoplasmic domain, TMa is the transmembrane anchor; TM2 to TM4 represents transmembrane regions 2 to 4, 'C' are conserved cysteines, and '*'indicates the position of the consensus pattern. The consensus pattern spans a conserved region including two cysteines located in a short cytoplasmic loop between two transmembrane domains: Consensus pattern: G-x(3)-[LIVMF]-x(2)-[GSA]-[LIVMF](2)-G-C-x-[GA]-[STA]- x(2)-[EG]-x(2)-[CWN]-[LIVM](2).

ee) Trypsin (trypsin). SEQ ID NOS:3381, 4684, and 4688, and thus the sequences they validate, correspond to novel serine proteases of the trypsin family. The catalytic activity of the serine proteases from the trypsin family is provided by a charge relay system involving an aspartic acid residue hydrogen-bonded to a histidine, which itself is hydrogen-bonded to a serine. The sequences in the vicinity of the active site serine and histidine residues are well conserved in this family of proteases (Brenner S., *Nature* (1988) *334*:528). Proteases known to belong to the trypsin family include: 1) Acrosin; 2) Blood coagulation factors VII, IX, X, XI and XII, thrombin, plasminogen, and protein C; 3) Cathepsin G; 4) Chymotrypsins; 5) Complement components C1r, C1s, C2, and complement factors B, D and I; 6) Complement-activating component of RA-reactive factor; 7) Cytotoxic cell proteases (granzymes A to H); 8) Duodenase I; 9) Elastases 1, 2, 3A, 3B (protease E), leukocyte (medullasin).; 10) Enterokinase (EC 3.4.21.9) (enteropeptidase); 11) Hepatocyte growth factor activator; 12) Hepsin; 13) Glandular (tissue) kallikreins (including EGF-binding protein types A, B, and C, NGF-gamma chain, gamma-renin, prostate specific antigen (PSA) and tonin); 14) Plasma kallikrein; 15) Mast cell proteases (MCP) 1 (chymase) to 8; 16) Myeloblastin (proteinase 3) (Wegener's autoantigen); 17) Plasminogen activators (urokinase-type, and tissue-type); 18) Trypsins I, II, III, and IV; 19) Tryptases; 20) Snake venom proteases such as ancrod, batroxobin, cerastobin, flavoxobin, and protein C activator; 21) Collagenase from common cattle grub and collagenolytic protease from Atlantic sand fiddler crab; 22) Apolipoprotein(a); 23) Blood fluke cercarial protease; 24) Drosophila trypsin like proteases: alpha, easter, snake-locus; 25) Drosophila protease stubble (gene sb); and 26) Major mite fecal allergen Der p

III. All the above proteins belong to family S1 in the classification of peptidases (Rawlings N.D., *et al.*, *Meth. Enzymol.* (1994) *244*:19; http://www.expasy.ch/cgi-bin/lists?peptidas.txt) and originate from eukaryotic species. It should be noted that bacterial proteases that belong to family S2A are similar enough in the regions of the active site residues that they can be picked up by the same patterns.

The consensus patterns for this trypsin protein family are: 1) [LIVM]-[ST]-A-[STAG]-H-C, where H is the active site residue. All sequences known to belong to this class detected by the pattern, except for complement components C1r and C1s, pig plasminogen, bovine protein C, rodent urokinase, ancrod, gyroxin and two insect trypsins; 2) [DNSTAGC]-[GSTAPIMVQH]-x(2)-G-[DE]-S-G-[GS]-[SAPHV]- [LIVMFYWH]-[LIVMFYSTANQH], where S is the active site residue. All sequences known to belong to this family are detected by the above consensus sequences, except for 18 different proteases which have lost the first conserved glycine. If a protein includes both the serine and the histidine active site signatures, the probability of it being a trypsin family serine protease is 100%.

ff) WD Domain, G-Beta Repeats (WD_domain). A few of the validation sequences, and the sequences they validate, represent novel members of the WD domain/G-beta repeat family. Beta-transducin (G-beta) is one of the three subunits (alpha, beta, and gamma) of the guanine nucleotide-binding proteins (G proteins) which act as intermediaries in the transduction of signals generated by transmembrane receptors (Gilman, *Annu. Rev. Biochem.* (1987) *56*:615). The alpha subunit binds to and hydrolyzes GTP; the functions of the beta and gamma subunits are less clear but they seem to be required for the replacement of GDP by GTP as well as for membrane anchoring and receptor recognition.

In higher eukaryotes, G-beta exists as a small multigene family of highly conserved proteins of about 340 amino acid residues. Structurally, G-beta consists of eight tandem repeats of about 40 residues, each containing a central Trp-Asp motif (this type of repeat is sometimes called a WD-40 repeat). Such a repetitive segment has been shown to exist in a number of other proteins including: human LIS1, a neuronal protein involved in type-1 lissencephaly; and mammalian coatomer beta' subunit (beta'-COP), a component of a cytosolic protein complex that reversibly associates with Golgi membranes to form vesicles that mediate biosynthetic protein transport.

The consensus pattern for the WD domain/G-Beta repeat family is: [LIVMSTAC]-

[LIVMFYWSTAGC]-[LIMSTAG]-[LIVMSTAGC]-x(2)-[DN]-x(2)-[LIVMWSTAC]-x-[LIVMFSTAG]-W-[DEN]-[LIVMFSTAGCN].

gg) wnt Family of Developmental Signaling Proteins (Wnt_dev_sign). Several of the validation sequences, and thus the sequences they validate, correspond to novel members of the wnt family of developmental signaling proteins. Wnt-1 (previously known as int-1), the seminal member of this family, (Nusse R., *Trends Genet.* (1988) *4*:291) is a proto-oncogene induced by the integration of the mouse mammary tumor virus. It is thought to play a role in intercellular communication and seems to be a signalling molecule important in the development of the central nervous system (CNS). The sequence of wnt-1 is highly conserved in mammals, fish, and amphibians. Wnt-1 was found to be a member of a large family of related proteins (Nusse R., *et al.*, *Cell* (1992) *69*:1073; McMahon A.P., *Trends Genet.* (1992) *8*:1; Moon R.T., *BioEssays* (1993) *15*:91) that are all thought to be developmental regulators. These proteins are known as wnt-2 (also known as irp), wnt-3, -3A, -4, -5A, -5B, -6, -7A, -7B, -8, -8B, -9 and -10. At least four members of this family are present in Drosophila; one of them, wingless (wg), is implicated in segmentation polarity.

All these proteins share the following features characteristics of secretory proteins: a signal peptide, several potential N-glycosylation sites and 22 conserved cysteines that are probably involved in disulfide bonds. The Wnt proteins seem to adhere to the plasma membrane of the secreting cells and are therefore likely to signal over only few cell diameters. The consensus pattern, which is based upon a highly conserved region including three cysteines, is as follows: C-K-C-H-G-[LIVMT]-S-G-x-C. All sequences known to belong to this family are detected by the provided consensus pattern.

hh) Protein Tyrosine Phosphatase (Y_phosphatase). Several of the validation sequences, and thus the sequences they validate, represent a polynucleotide encoding a protein tyrosine kinase. Tyrosine specific protein phosphatases (EC 3.1.3.48) (PTPase) (Fischer *et al.*, *Science* (1991) *253*:401; Charbonneau *et al.*, *Annu. Rev. Cell Biol.* (1992) *8*:463; Trowbridge, *J. Biol. Chem.* (1991) *266*:23517; Tonks *et al.*, *Trends Biochem. Sci.* (1989) *14*:497; and Hunter, *Cell* (1989) *58*:1013) catalyze the removal of a phosphate group attached to a tyrosine residue. These enzymes are very important in the control of cell growth, proliferation, differentiation and transformation. Multiple forms of PTPase have been characterized and can be classified into two categories: soluble PTPases and transmembrane receptor proteins that contain PTPase domain(s).

Soluble PTPases include PTPN3 (H1) and PTPN4 (MEG), enzymes that contain an N-terminal band 4.1-like domain and could act at junctions between the membrane and cytoskeleton; PTPN6 (PTP-1C; HCP; SHP) and PTPN11 (PTP-2C; SH-PTP3; Syp), enzymes that contain two copies of the SH2 domain at its N-terminal extremity.

Dual specificity PTPases include DUSP1 (PTPN10; MAP kinase phosphatase-1; MKP-1) which dephosphorylates MAP kinase on both Thr-183 and Tyr-185; and DUSP2 (PAC-1), a nuclear enzyme that dephosphorylates MAP kinases ERK1 and ERK2 on both Thr and Tyr residues.

Structurally, all known receptor PTPases are made up of a variable length extracellular domain, followed by a transmembrane region and a C-terminal catalytic cytoplasmic domain. Some of the receptor PTPases contain fibronectin type III (FN-III) repeats, immunoglobulin-like domains, MAM domains or carbonic anhydrase-like domains in their extracellular region. The cytoplasmic region generally contains two copies of the PTPAse domain. The first seems to have enzymatic activity, while the second is inactive but seems to affect substrate specificity of the first. In these domains, the catalytic cysteine is generally conserved but some other, presumably important, residues are not.

PTPase domains consist of about 300 amino acids. There are two conserved cysteines and the second one has been shown to be absolutely required for activity. Furthermore, a number of conserved residues in its immediate vicinity have also been shown to be important. The consensus pattern for PTPases is: [LIVMF]-H-C-x(2)-G-x(3)-[STC]-[STAGP]-x-[LIVMFY]; C is the active site residue.

ii)Zinc Finger, C2H2 Type (Zincfing_C2H2). Several of the validation sequences, and thus the sequences they validate, correspond to polynucleotides encoding novel members of the of the C2H2 type zinc finger protein family. Zinc finger domains (Klug *et al.*, *Trends Biochem. Sci.* (1987) *12*:464; Evans *et al.*, *Cell* (1988) *52*:1; Payre *et al.*, *FEBS Lett.* (1988) *234*:245; Miller *et al.*, *EMBO J.* (1985) *4*:1609; and Berg, *Proc. Natl. Acad. Sci. USA* (1988) *85*:99) are nucleic acid-binding protein structures first identified in the Xenopus transcription factor TFIIIA. These domains have since been found in numerous nucleic acid-binding proteins. A zinc finger domain is composed of 25 to 30 amino acid residues. Two cysteine or histidine residues are positioned at both extremities of the domain, which are involved in the tetrahedral coordination of a zinc atom. It has been proposed that such a domain interacts with about five nucleotides.

Many classes of zinc fingers are characterized according to the number and

positions of the histidine and cysteine residues involved in the zinc atom coordination. In the first class to be characterized, called C2H2, the first pair of zinc coordinating residues are cysteines, while the second pair are histidines. A number of experimental reports have demonstrated the zinc-dependent DNA or RNA binding property of some members of this class.

Mammalian proteins having a C2H2 zipper include (number in parenthesis indicates number of zinc finger regions in the protein): basonuclin (6), BCL-6/LAZ-3 (6), erythroid krueppel-like transcription factor (3), transcription factors Sp1 (3), Sp2 (3), Sp3 (3) and Sp(4) 3, transcriptional repressor YY1 (4), Wilms' tumor protein (4), EGR1/Krox24 (3), EGR2/Krox20 (3), EGR3/Pilot (3), EGR4/AT133 (4), Evi-1 (10), GLI1 (5), GLI2 (4+), GLI3 (3+), HIV-EP1/ZNF40 (4), HIV-EP2 (2), KR1 (9+), KR2 (9), KR3 (15+), KR4 (14+), KR5 (11+), HF.12 (6+), REX-1 (4), ZfX (13), ZfY (13), Zfp-35 (18), ZNF7 (15), ZNF8 (7), ZNF35 (10), ZNF42/MZF-1 (13), ZNF43 (22), ZNF46/Kup (2), ZNF76 (7), ZNF91 (36), ZNF133 (3).

In addition to the conserved zinc ligand residues, it has been shown that a number of other positions are also important for the structural integrity of the C2H2 zinc fingers. (Rosenfeld *et al.*, *J. Biomol. Struct. Dyn.* (1993) *11*:557) The best conserved position is found four residues after the second cysteine; it is generally an aromatic or aliphatic residue. The consensus pattern for C2H2 zinc fingers is: C-x(2,4)-C-x(3)-[LIVMFYWC]-x(8)-H-x(3,5)-H. The two C's and two H's are zinc ligands.

jj) Zinc finger, C3HC4 type (RING finger), signature (Zincfing_C3H4). SEQ ID NOS:3774 and 4477, and thus the sequences they validate, represent polynucleotides encoding a polypeptide having a C3HC4 type zinc finger signature. A number of eukaryotic and viral proteins contain this signature, which is primarily a conserved cysteine-rich domain of 40 to 60 residues (Borden K.L.B., et al., *Curr. Opin. Struct. Biol.* (1996) *6*:395) that binds two atoms of zinc, and is probably involved in mediating protein-protein interactions. The 3D structure of the zinc ligation system is uniqueto the RING domain and is refered to as the "cross-brace" motif. The spacing of the cysteines in such a domain is C-x(2)-C-x(9 to 39)-C-x(1 to 3)-H-x(2 to 3)-C-x(2)-C-x(4 to 48)-C-x(2)-C. Proteins that include the C3HC4 domain include:

1) Mammalian V(D)J recombination activating protein (RAG1). RAG1 activates the rearrangement of immunoglobulin and T-cell receptor genes.

2) Mouse rpt-1. Rpt-1 is a trans-acting factor that regulates gene expression directed

by the promoter region of the interleukin-2 receptor alpha chainor the LTR promoter region of HIV-1.

3) Human rfp. Rfp is a developmentally regulated protein that may function in male germ cell development. Recombination of the N-terminal section of rfp with a protein tyrosine kinase produces the ret transforming protein.

4) Human 52 Kd Ro/SS-A protein. A protein of unknown function from the Ro/SS-A ribonucleoprotein complex. Sera from patients with systemic lupus erythematosus or primary Sjogren's syndrome often contain antibodies that react with the Ro proteins.

5) Human histocompatibility locus protein RING1.

6) Human PML, a probable transcription factor. Chromosomal translocation ofPML with retinoic receptor alpha creates a fusion protein which is thecause of acute promyelocytic leukemia (APL).

7) Mammalian breast cancer type 1 susceptibility protein (BRCA1) ([E1] http://bioinformatics.weizmann.ac.il/hotmolecbase/entries/brca1.htm).

8) Mammalian cbl proto-oncogene.

9) Mammalian bmi-1 proto-oncogene.

10) Vertebrate CDK-activating kinase (CAK) assembly factor MAT1, a protein that stabilizes the complex between the CDK7 kinase and cyclin H (MAT1 stands for 'Menage A Trois').

11) Mammalian mel-18 protein. Mel-18 which is expressed in a variety of tumorcells is a transcriptional repressor that recognizes and bind a specific DNA sequence.

12) Mammalian peroxisome assembly factor-1 (PAF-1) (PMP35), which is somewhat involved in the biogenesis of peroxisomes. In humans, defects in PAF-1 are responsible for a form of Zellweger syndrome, an autosomal recessivedisorder associated with peroxisomal deficiencies.

13) Human MAT1 protein, which interacts with the CDK7-cyclin H complex.

14) Human RING1 protein.

15) Xenopus XNF7 protein, a probable transcription factor.

16) Trypanosoma protein ESAG-8 (T-LR), which may be involved in the postranscriptional regulation of genes in VSG expression sites or may interact with adenylate cyclase to regulate its activity.

17) Drosophila proteins Posterior Sex Combs (Psc) and Suppressor two of zeste

(Su(z)2). The two proteins belong to the Polycomb group of genes needed to maintain the segment-specific repression of homeotic selector genes.

18) Drosophila protein male-specific msl-2, a DNA-binding protein which is involved in X chromosome dosage compensation (the elevation of transcription of the male single X chromosome).

19) Arabidopsis thaliana protein COP1 which is involved in the regulation ofphotomorphogenesis.

20) Fungal DNA repair proteins RAD5, RAD16, RAD18 and rad8.

21) Herpesviruses trans-acting transcriptional protein ICP0/IE110. This protein which has been characterized in many different herpesviruses is a trans-activator and/or - repressor of the expression of many viral and cellular promoters.

22) Baculoviruses protein CG30.

23) Baculoviruses major immediate early protein (PE-38).

24) Baculoviruses immediate-early regulatory protein IE-N/IE-2.

25) Caenorhabditis elegans hypothetical proteins F54G8.4, R05D3.4 and T02C1.1.

26) Yeast hypothetical proteins YER116c and YKR017c.

The signature pattern for the C3HC4 finger is based on the central region of the domain:

Consensus pattern: C-x-H-x-[LIVMFY]-C-x(2)-C-[LIVMYA].

Example 4: Differential Expression of Polynucleotides of the Invention: Description of Libraries and Detection of Differential Expression

The relative expression levels of the polynucleotides of the invention was assessed in several libraries prepared from various sources, including cell lines and patient tissue samples. Table 4 provides a summary of these libraries, including the shortened library name (used hereafter), the mRNA source used to prepared the cDNA library, the "nickname" of the library that is used in the tables below (in quotes), and the approximate number of clones in the library.

Table 4 Description of cDNA Libraries

Library (lib #)	Description	Number of Clones in this Clustering
1	Km12 L4	

Library (lib #)	Description	Number of Clones in this Clust ring
	Human Colon Cell Line, High Metastatic Potential (derived from Km12C) "High Colon"	307133
2	Km12C Human Colon Cell Line, Low Metastatic Potential "Low Colon"	284755
3	MDA-MB-231 Human Breast Cancer Cell Line, High Metastatic Potential; micro-metastases in lung "High Breast"	326937
4	MCF7 Human Breast Cancer Cell, Non Metastatic "Low Breast"	318979
8	MV-522 Human Lung Cancer Cell Line, High Metastatic Potential "High Lung"	223620
9	UCP-3 Human Lung Cancer Cell Line, Low Metastatic Potential "Low Lung"	312503
12	Human microvascular endothelial cells (HMEC) – Untreated PCR (OligodT) cDNA library	41938
13	Human microvascular endothelial cells (HMEC) – **Basic fibroblast growth factor** (bFGF) treated PCR (OligodT) cDNA library	42100
14	Human microvascular endothelial cells (HMEC) – Vascular endothelial growth factor (VEGF) treated PCR (OligodT) cDNA library	42825
15	Normal Colon – UC#2 Patient PCR (OligodT) cDNA library "Normal Colon Tumor Tissue"	34285
16	Colon Tumor – UC#2 Patient PCR (OligodT) cDNA library "Normal Colon Tumor Tissue"	35625
17	Liver Metastasis from Colon Tumor of UC#2 Patient PCR (OligodT) cDNA library "High Colon Metastasis Tissue"	36984
18	Normal Colon – UC#3 Patient PCR (OligodT) cDNA library "Normal Colon Tumor Tissue"	36216
19	Colon Tumor – UC#3 Patient PCR (OligodT) cDNA library "High Colon Tumor Tissue"	41388
20	Liver Metastasis from Colon Tumor of UC#3 Patient PCR (OligodT) cDNA library "High Colon Metastasis Tissue"	30956

The KM12L4 and KM12C cell lines are described in Example 1 above. The MDA-MB-231 cell line was originally isolated from pleural effusions (Cailleau, *J. Natl. Cancer. Inst.* (1974) *53*:661), is of high metastatic potential, and forms poorly differentiated

adenocarcinoma grade II in nude mice consistent with breast carcinoma. The MCF7 cell line was derived from a pleural effusion of a breast adenocarcinoma and is non-metastatic. The MV-522 cell line is derived from a human lung carcinoma and is of high metastatic potential. The UCP-3 cell line is a low metastatic human lung carcinoma cell line; the MV-522 is a high metastatic variant of UCP-3. These cell lines are well-recognized in the art as models for the study of human breast and lung cancer (see, *e.g.*, Chandrasekaran *et al.*, *Cancer Res.* (1979) *39*:870 (MDA-MB-231 and MCF-7); Gastpar *et al.*, *J Med Chem* (1998) *41*:4965 (MDA-MB-231 and MCF-7); Ranson *et al.*, *Br J Cancer* (1998) *77*:1586 (MDA-MB-231 and MCF-7); Kuang *et al.*, *Nucleic Acids Res* (1998) *26*:1116 (MDA-MB-231 and MCF-7); Varki *et al.*, *Int J Cancer* (1987) *40*:46 (UCP-3); Varki *et al.*, *Tumour Biol.* (1990) *11*:327; (MV-522 and UCP-3); Varki *et al.*, *Anticancer Res.* (1990) *10*:637; (MV-522); Kelner *et al.*, *Anticancer Res* (1995) *15*:867 (MV-522); and Zhang *et al.*, *Anticancer Drugs* (1997) *8*:696 (MV522)). The samples of libraries 15-20 are derived from two different patients (UC#2, and UC#3). The bFGF-treated HMEC were prepared by incubation with bFGF at 10ng/ml for 2 hrs; the VEGF-treated HMEC were prepared by incubation with 20ng/ml BEGF for 2 hrs. Following incubation with the respective growth factor, the cells were washed and lysis buffer added for RNA preparation.

Each of the libraries is composed of a collection of cDNA clones that in turn are representative of the mRNAs expressed in the indicated mRNA source. In order to facilitate the analysis of the millions of sequences in each library, the sequences were assigned to clusters. The concept of "cluster of clones" is derived from a sorting/grouping of cDNA clones based on their hybridization pattern to a panel of roughly 300 7bp oligonucleotide probes (see Drmanac *et al.*, *Genomics* (1996) *37*(1):29). Random cDNA clones from a tissue library are hybridized at moderate stringency to 300 7bp oligonucleotides. Each oligonucleotide has some measure of specific hybridization to that specific clone. The combination of 300 of these measures of hybridization for 300 probes equals the "hybridization signature" for a specific clone. Clones with similar sequence will have similar hybridization signatures. By developing a sorting/grouping algorithm to analyze these signatures, groups of clones in a library can be identified and brought together computationally. These groups of clones are termed "clusters". Depending on the stringency of the selection in the algorithm (similar to the stringency of hybridization in a

classic library cDNA screening protocol), the "purity" of each cluster can be controlled. For example, artifacts of clustering may occur in computational clustering just as artifacts can occur in "wet-lab" screening of a cDNA library with 400 bp cDNA fragments, at even the highest stringency. The stringency used in the implementation of cluster herein provides groups of clones that are in general from the same cDNA or closely related cDNAs. Closely related clones can be a result of different length clones of the same cDNA, closely related clones from highly related gene families, or splice variants of the same cDNA.

Differential expression for a selected cluster was assessed by first determining the number of cDNA clones corresponding to the selected cluster in the first library (Clones in 1^{st}), and the determining the number of cDNA clones corresponding to the selected cluster in the second library (Clones in 2^{nd}). Differential expression of the selected cluster in the first library relative to the second library is expressed as a "ratio" of percent expression between the two libraries. In general, the "ratio" is calculated by: 1) calculating the percent expression of the selected cluster in the first library by dividing the number of clones corresponding to a selected cluster in the first library by the total number of clones analyzed from the first library; 2) calculating the percent expression of the selected cluster in the second library by dividing the number of clones corresponding to a selected cluster in a second library by the total number of clones analyzed from the second library; 3) dividing the calculated percent expression from the first library by the calculated percent expression from the second library. If the "number of clones" corresponding to a selected cluster in a library is zero, the value is set at 1 to aid in calculation. The formula used in calculating the ratio takes into account the "depth" of each of the libraries being compared, *i.e.*, the total number of clones analyzed in each library.

In general, a polynucleotide is said to be significantly differentially expressed between two samples when the ratio value is greater than at least about 2, preferably greater than at least about 3, more preferably greater than at least about 5 , where the ratio value is calculated using the method described above. The significance of differential expression is determined using a z score test (Zar, Biostatistical Analysis, Prentice Hall, Inc., USA, "Differences between Proportions," pp 296-298 (1974).

Example 5: Polynucleotides Differentially Expressed in High Metastatic Potential Breast Cancer Cells Versus Low Metastatic Breast Cancer Cells

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high metastatic potential breast cancer tissue and low metastatic breast cancer cells. Expression of these sequences in breast cancer can be valuable in determining diagnostic, prognostic and/or treatment information. For example, sequences that are highly expressed in the high metastatic potential cells can be indicative of increased expression of genes or regulatory sequences involved in the metastatic process. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant more aggressive treatment. In another example, sequences that display higher expression in the low metastatic potential cells can be associated with genes or regulatory sequences that inhibit metastasis, and thus the expression of these polynucleotides in a sample may warrant a more positive prognosis than the gross pathology would suggest.

The differential expression of these polynucleotides can be used as a diagnostic marker, a prognostic marker, for risk assessment, patient treatment and the like. These polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers.

The following tables summarize polynucleotides that are differentially expressed between high metastatic potential breast cancer cells and low metastatic potential breast cancer cells.

Table 5. Differentially expressed polynucleotides: Higher expression in high metastatic potential breast cancer (lib3) relative to low metastatic breast cancer cells (lib4)

SEQ ID NOS:	Sequence Name	Cluster ID	Lib3 clones	Lib4 clones	lib3/lib4	Zscore
45	RTA00000197AR.f.12.1	3513	17	5	3.317240	2.287632
146	RTA00000185AF.a.19.2	5749	9	0	8.780930	2.629923
154	RTA00000196F.e.7.1	1039	10	2	4.878294	1.978215
159	RTA00000182AF.l.12.1	1027	41	17	2.353059	2.926571
165	RTA00000192AF.g.23.1	6455	6	0	5.853953	2.011224
174	RTA00000181AF.e.22.3	3442	17	4	4.146550	2.562391
183	RTA00000198AF.c.17.1	6923	6	0	5.853953	2.011224
364	RTA00000187AF.g.13.1	2991	10	1	9.756589	2.371428
366	RTA00000192AF.o.19.1	3549	10	1	9.756589	2.371428
387	RTA00000191AF.j.14.1	1002	42	20	2.048883	2.570309
496	RTA00000190AF.p.3.1	2378	34	0	33.17240	5.588184
510	RTA00000178AF.n.23.1	3298	12	1	11.70790	2.729313
512	RTA00000191AF.c.3.1	3549	10	1	9.756589	2.371428
529	RTA00000178AF.b.13.1	3114	9	1	8.780930	2.174815
560	RTA00000184AF.i.23.3	1577	25	3	8.130490	3.903813
606	RTA00000179AR.e.01.4	2493	33	9	3.577416	3.469507

SEQ ID NOS:	Sequence Name	Cluster ID	Lib3 clones	Lib4 clones	lib3/lib4	Zscore
644	RTA00000197F.i.12.1	3605	14	1	13.65922	3.050936
646	RTA00000186AF.d.24.1	3114	9	1	8.780930	2.174815
754	RTA00000187AF.l.11.1	4482	14	3	4.553074	2.374769
875	RTA00000401F.m.02.1	1573	34	7	4.738914	3.982056
902	RTA00000422F.c.02.1	2902	18	5	3.512372	2.443314
921	RTA00000418F.m.19.1	8890	6	0	5.853953	2.011224
942	RTA00000351R.g.11.1	3077	17	4	4.146550	2.562391
1095	RTA00000408F.l.13.1	4423	12	1	11.70790	2.729313
1104	RTA00000404F.m.10.2	779	60	22	2.660887	3.974953
1131	RTA00000400F.k.22.1	2512	7	0	6.829612	2.235371
1170	RTA00000340R.f.05.1	3202	18	3	5.853953	2.998867
1184	RTA00000422F.c.17.1	1360	26	11	2.306102	2.226876
1205	RTA00000118A.a.23.1	3500	12	3	3.902635	2.018050
1354	RTA00000401F.k.14.1	211	121	43	2.745458	5.856098
2124	RTA00000191AF.j.14.1	1002	42	20	2.048883	2.570309
1535	RTA00000405F.l.11.1	2055	29	8	3.536763	3.213373
1751	RTA00000423F.j.03.1	5391	6	0	5.853953	2.011224
1764	RTA00000399F.o.24.1	2272	17	1	16.58620	3.483575
1777	RTA00000401F.j.15.1	3061	14	0	13.65922	3.428594
1795	RTA00000348R.o.12.1	2263	6	0	5.853953	2.011224
1869	RTA00000340F.f.22.1	1720	57	8	6.951569	5.855075
1882	RTA00000401F.g.22.1	1147	28	12	2.276537	2.294031
1890	RTA00000346F.o.16.1	176	170	44	3.769591	8.366611
1915	RTA00000400F.g.02.1	1508	21	5	4.097767	2.879196
2040	RTA00000527F.j.02.2	4896	11	0	10.73224	2.974502
2059	RTA00000528F.i.22.1	2478	17	5	3.317240	2.287632
2223	RTA00000528F.j.11.1	1070	26	6	4.227855	3.289393
2245	RTA00000527F.k.09.1	213	17	4	4.146550	2.562391
2300	RTA00000528F.b.03.1	2078	11	2	5.366124	2.174565
2325	RTA00000525F.d.13.1	349	77	1	75.12573	8.384408
2462	RTA00000528F.g.22.2	920	76	32	2.317189	4.010278
2488	RTA00000528F.h.02.2	1701	18	4	4.390465	2.714073
2492	RTA00000528F.c.11.1	1701	18	4	4.390465	2.714073

Table 6. Differentially expressed polynucleotides: Higher expression in low metastatic breast cancer cells (lib4) relative to high metastatic potential breast cancer (lib3)

SEQ ID NOS:	Sequence Name	Cluster ID	Lib4 Clones	Lib 3 Clones	lib4/lib3	Zscore
15	RTA00000177AR.n.8.1	4188	4	13	3.33108	1.99126
36	RTA00000181AF.p.4.3	40392	1	8	8.19958	2.03713
44	RTA00000199F.f.08.2	12445	0	11	11.2744	3.05623
89	RTA00000177AF.n.8.3	4188	4	13	3.33108	1.99126
172	RTA00000186AF.p.09.2	6879	3	43	14.6909	5.83444
203	RTA00000201F.d.09.1	1827	37	157	4.34910	8.71727
261	RTA00000192AF.a.24.1	13183	0	7	7.17463	2.30057
419	RTA00000182AF.j.20.1	4769	2	20	10.2494	3.68254
420	RTA00000181AF.c.11.1	4769	2	20	10.2494	3.68254
503	RTA00000197AF.k.9.1	3138	1	10	10.2494	2.45316
552	RTA00000193AF.b.24.1	35	386	1967	5.22298	33.2328
564	RTA00000200AF.g.18.1	1600	0	23	23.5738	4.64683

SEQ ID NOS:	Sequence Name	Cluster ID	Lib4 Clones	Lib 3 Clones	lib4/lib3	Zscore
570	RTA00000183AF.a.19.2	3788	0	6	6.14969	2.07158
590	RTA00000190AF.d.2.1	2444	26	55	2.16815	3.22244
693	RTA00000198F.m.12.1	4	987	2807	2.91492	30.3819
707	RTA00000179AF.p.15.1	5622	2	13	6.66216	2.62993
711	RTA00000198F.i.2.1	8076	0	9	9.22453	2.70385
726	RTA00000200R.f.10.1	4	987	2807	2.91492	30.3819
746	RTA00000178AF.i.01.2	4	987	2807	2.91492	30.3819
756	RTA00000404F.a.02.1	9738	1	13	13.3243	2.98623
990	RTA00000126A.o.23.1	6268	3	18	6.14969	3.11179
1122	RTA00000401F.o.06.1	2679	4	23	5.89345	3.52846
1142	RTA00000411F.a.15.1	73812	0	12	12.2993	3.21838
1286	RTA00000345F.n.12.1	7337	3	16	5.46639	2.80694
1289	RTA00000126A.g.7.1	1902	13	48	3.78442	4.45002
1435	RTA00000345F.e.11.1	4392	1	8	8.19958	2.03713
1860	RTA00000340F.p.18.1	287	6	173	29.5526	12.5749
1933	RTA00000400F.f.11.1	4088	0	82	84.0457	9.05778
1934	RTA00000341F.o.12.1	2883	9	21	2.39154	2.07600
1979	RTA00000122A.h.24.1	48	412	1020	2.53749	16.5262
1980	RTA00000346F.j.13.1	5337	5	17	3.48482	2.40321
2007	RTA00000400F.g.08.1	1275	15	32	2.18655	2.41857
2023	RTA00000523F.d.19.1	26489	1	8	8.19958	2.03713
2409	RTA00000526F.d.17.1	2757	4	16	4.09979	2.51500
1220	RTA00000528F.d.04.1	2395	12	37	3.16025	3.51521

Example 6: Polynucleotides Differentially Expressed in High Metastatic Potential Lung Cancer Cells Versus Low Metastatic Lung Cancer Cells

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high metastatic potential lung cancer tissue and low metastatic lung cancer cells. Expression of these sequences in lung cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information. For example, sequences that are highly expressed in the high metastatic potential cells are associated can be indicative of increased expression of genes or regulatory sequences involved in the metastatic process. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant more aggressive treatment. In another example, sequences that display higher expression in the low metastatic potential cells can be associated with genes or regulatory sequences that inhibit metastasis, and thus the expression of these polynucleotides in a sample may warrant a more positive prognosis than the gross pathology would suggest.

The differential expression of these polynucleotides can be used as a diagnostic marker, a prognostic marker, for risk assessment, patient treatment and the like. These

polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers.

The following tables summarize polynucleotides that are differentially expressed between high metastatic potential lung cancer cells and low metastatic potential lung cancer cells:

Table 7 Differentially expressed polynucleotides: Higher expression in high metastatic potential lung cancer cells (lib8) relative to low metastatic lung cancer cells (lib9)

SEQ ID NO:	Sequence Name	Cluster ID	Lib8 clones	Lib9 clones	lib8/lib9	Zscore
10	RTA00000198AF.n.16.1	3721	9	0	12.5772	3.20845
54	RTA00000200F.o.22.1	983	8	1	11.1797	2.53243
65	RTA00000198AF.m.16.1	51	348	66	7.36849	17.4315
171	RTA00000198R.c.07.1	19181	6	0	8.38484	2.48169
203	RTA00000201F.d.09.1	1827	45	15	4.19242	5.09891
252	RTA00000181AF.e.18.3	8	1355	122	15.5211	39.0214
253	RTA00000181AF.e.17.3	8	1355	122	15.5211	39.0214
285	RTA00000181AR.j.14.3	5399	12	0	16.7696	3.80239
419	RTA00000182AF.j.20.1	4769	10	3	4.65824	2.29362
420	RTA00000181AF.c.11.1	4769	10	3	4.65824	2.29362
491	RTA00000196F.k.11.1	3	986	392	3.51507	22.4683
525	RTA00000198AF.c.7.1	19181	6	0	8.38484	2.48169
526	RTA00000185AF.e.20.1	5865	12	0	16.7696	3.80239
552	RTA00000193AF.b.24.1	35	868	11	110.273	34.2897
693	RTA00000198F.m.12.1	4	506	209	3.38335	15.7309
700	RTA00000183AF.i.18.2	40129	7	0	9.78231	2.74441
726	RTA00000200R.f.10.1	4	506	209	3.38335	15.7309
742	RTA00000177AF.m.1.1	14929	23	16	2.00886	2.02420
746	RTA00000178AF.i.01.2	4	506	209	3.38335	15.7309
861	RTA00000339F.f.11.1	5832	5	0	6.98736	2.18988
990	RTA00000126A.o.23.1	6268	5	0	6.98736	2.18988
1088	RTA00000399F.f.11.1	40167	8	0	11.1797	2.98512
1288	RTA00000423F.e.11.1	2566	11	2	7.68610	2.85611
1417	RTA00000339F.o.07.1	2566	11	2	7.68610	2.85611
1444	RTA00000419F.p.03.1	1937	10	3	4.65824	2.29362
1454	RTA00000340F.l.05.1	38935	7	0	9.78231	2.74441
1570	RTA00000403F.a.17.1	13686	8	0	11.1797	2.98512
1597	RTA00000401F.n.23.1	1552	8	1	11.1797	2.53243
1979	RTA00000122A.h.24.1	48	342	155	3.08345	12.2138
2024	RTA00000528F.b.23.1	1605	22	4	7.68610	4.23808
2034	RTA00000528F.m.16.1	4468	6	1	8.38484	1.97787
2126	RTA00000526F.d.01.1	4468	6	1	8.38484	1.97787

Table 8 Differentially expressed polynucleotides: Higher expression in low metastatic lung cancer cells (lib9) relative to high metastatic potntial lung cancer cells

SEQ ID NO:	Sequence Name	Cluster ID	Lib8 clones	Lib9 clones	lib9/lib8	Zscore
174	RTA00000181AF.e.22.3	3442	5	23	3.291654	2.368262
254	RTA00000178AF.n.2.1	17083	0	8	5.724617	2.034117
466	RTA00000177AF.p.20.1	4141	4	27	4.830145	3.070829
571	RTA00000198AF.b.14.1	801	16	46	2.057284	2.411087
574	RTA00000192AF.f.3.1	5257	5	25	3.577885	2.596857
590	RTA00000190AF.d.2.1	2444	12	37	2.206362	2.299984
922	RTA00000399F.l.14.1	3354	5	20	2.862308	1.998763
1355	RTA00000406F.m.04.1	14959	11	41	2.667151	2.865855
1422	RTA00000405F.h.07.2	4984	3	16	3.816411	2.058861
2007	RTA00000400F.g.08.1	1275	10	42	3.005423	3.147111
2038	RTA00000527F.p.06.1	1292	8	33	2.951755	2.724411
2245	RTA00000527F.k.09.1	213	137	403	2.104945	7.661033

Example 7: Polynucleotides Differentially Expressed in High Metastatic Potential Colon Cancer Cells Versus Low Metastatic Colon Cancer Cells

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high metastatic potential colon cancer tissue and low metastatic colon cancer cells. Expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information. For example, sequences that are highly expressed in the high metastatic potential cells can be indicative of increased expression of genes or regulatory sequences involved in the metastatic process. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant more aggressive treatment. In another example, sequences that display higher expression in the low metastatic potential cells can be associated with genes or regulatory sequences that inhibit metastasis, and thus the expression of these polynucleotides in a sample may warrant a more positive prognosis than the gross pathology would suggest.

The differential expression of these polynucleotides can be used as a diagnostic marker, a prognostic marker, for risk assessment, patient treatment and the like. These polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers.

The following table summarizes identified polynucleotides with differential expression between high metastatic potential colon cancer cells and low metastatic potential colon cancer cells:

Table 9 Differentially expressed polynucleotides: Higher expression in high metastatic potential colon cancer (lib1) relative to low metastatic colon cancer cells (lib2)

SEQ ID NO:	Sequence Name	Cluster ID	Lib1 clones	Lib2 clones	lib1/lib2	Zscore
228	RTA00000187AR.h.15.2	6660	7	0	6.489973399	2.169320547
280	RTA00000193AF.b.18.1	7542	8	0	7.417112456	2.36964728
355	RTA00000184AR.b.24.1	5777	9	1	8.344251513	2.09555146
491	RTA00000196F.k.11.1	3	5268	2164	2.257009497	32.96556438
603	RTA00000183AR.d.11.3	6420	8	0	7.417112456	2.36964728
680	RTA00000177AF.f.10.1	6420	8	0	7.417112456	2.36964728
752	RTA00000192AF.o.7.1	5275	11	2	5.099264814	2.083995588
753	RTA00000192AF.o.17.1	5275	11	2	5.099264814	2.083995588
1241	RTA00000346F.l.13.1	7542	8	0	7.417112456	2.36964728
1264	RTA00000349R.g.10.1	5777	9	1	8.344251513	2.09555146
1401	RTA00000421F.m.14.1	3524	21	6	3.2449867	2.499690198
1442	RTA00000350R.g.10.1	9026	7	0	6.489973399	2.169320547
1514	RTA00000399F.o.06.1	13574	7	0	6.489973399	2.169320547
1851	RTA00000421F.a.06.1	2385	27	4	6.258188635	3.743586088
1915	RTA00000400F.g.02.1	1508	46	17	2.508729213	3.230059264
2024	RTA00000528F.b.23.1	1605	36	11	3.034273278	3.244010467
2066	RTA00000528F.m.12.1	5768	12	0		3.046665462

Table 10 Differentially expressed polynucleotides: Higher expression in low metastatic colon cancer cells (lib2)relative to high metastatic potential colon cancer (lib1)

SEQ ID NOS:	Sequence Name	Cluster ID	Lib1 clones	Lib2 clones	lib2/lib1	Zscore
33	RTA00000178AR.a.20.1	945	9	21	2.51670	2.21703
250	RTA00000192AF.j.21.1	2289	3	23	8.26916	3.92187
282	RTA00000193AF.c.15.1	3726	3	14	5.03340	2.58312
370	RTA00000179AF.c.15.3	2995	4	13	3.50540	2.09770
387	RTA00000191AF.j.14.1	1002	12	65	5.84234	6.26259
443	RTA00000197AR.i.17.1	3516	5	17	3.66719	2.52439
460	RTA00000179AF.c.15.1	2995	4	13	3.50540	2.09770
545	RTA00000196F.a.2.1	3575	5	14	3.02004	2.00158
560	RTA00000184AF.i.23.3	1577	12	40	3.59528	4.01991
703	RTA00000198F.l.09.1	3611	2	13	7.01081	2.73040
704	RTA00000190AF.o.12.1	3438	5	14	3.02004	2.00158
1095	RTA00000408F.l.13.1	4423	1	8	8.62869	2.11495
1104	RTA00000404F.m.10.2	779	27	54	2.15717	3.23169
1205	RTA00000118A.a.23.1	3500	3	13	4.67387	2.40298
1354	RTA00000401F.k.14.1	211	109	206	2.03843	6.08597
1387	RTA00000191AF.j.14.1	1002	12	65	5.84234	6.26259
1734	RTA00000345F.b.17.1	945	9	21	2.51670	2.21703
1742	RTA00000422F.b.22.1	2368	14	34	2.61942	3.00662
1954	RTA00000401F.j.23.1	570	59	148	2.70560	6.66631
2262	RTA00000527F.o.12.1	688	29	60	2.23155	3.53946
2325	RTA00000525F.d.13.1	349	69	138	2.15717	5.27497

Example 8: Polynucleotides Differentially Expressed in High Metastatic Potential Colon Cancer Patient Tissue Versus Normal Patient Tissue

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high metastatic potential colon cancer tissue and normal tissue. Expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information. For example, sequences that are highly expressed in the high metastatic potential cells are associated can be indicative of increased expression of genes or regulatory sequences involved in the advanced disease state which involves processes such as angiogenesis, dedifferentiation, cell replication, and metastasis. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant more aggressive treatment.

The differential expression of these polynucleotides can be used as a diagnostic marker, a prognostic marker, for risk assessment, patient treatment and the like. These polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers.

The following tables summarize polynucleotides that are differentially expressed between high metastatic potential colon cancer cells and normal colon cells:

Table 11 Differentially expressed polynucleotides isolated from samples from two patients (UC#2 and UC#3) : Higher expression in high metastatic potential colon tissue (UC#2:lib17; UC#3:lib20) vs. normal colon tissue (UC#2:lib15; UC#3:lib18)

SEQ ID NO:	Sequence Name	Cluster ID	lib15 clones	lib17 clones	lib17/lib15	Zscore
65	RTA00000198AF.m.16.1	51	1	10	9.27022	2.28830
1780	RTA00000118A.j.24.1	18	4	23	5.33037	3.27028
1899	RTA00000345F.j.09.1	13	14	80	5.29727	6.34580
SEQ ID NO:	Sequence Name	Cluster ID	lib18 clones	lib20 clones	lib20/lib18	Zscore
1899	RTA00000345F.j.09.1	13	12	23	2.24234	2.16077

Table 12 Differentially expressed polynucleotides isolated from samples from two patients (UC#2 and UC#3) : Higher expression in normal colon tissue (UC#2:lib15; UC#3:lib18)vs. high metastatic potential colon tissue (UC#2:lib17; UC#3:lib20).

SEQ ID NO:	Sequence Name	Cluster ID	Lib5 Clones	L1ib7 Clones	lib15/lib17	Z Score: >2.5899%; >1.96
491	RTA00000196F.k.11.1	3	242	26	10.04	13.78900072
SEQ ID	Sequence Name	Cluster	Lib18	Lib20	lib18/lib20	Zscore

NO:		ID	clones	clones		
491	RTA00000196F.k.11.1	3	409	46	7.59993	15.3998

Example 9: Polynucleotides Differentially Expressed in High Colon Tumor Potential Patient Tissue Versus Metastasized Colon Cancer Patient Tissue

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high tumor potential colon cancer tissue and cells derived from high metastatic potential colon cancer cells. Expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information associated with the transformation of precancerous tissue to malignant tissue. This information can be useful in the prevention of achieving the advanced malignant state in these tissues, and can be important in risk assessment for a patient.

The following table summarizes identified polynucleotides with differential expression between high tumor potential colon cancer tissue and cells derived from high metastatic potential colon cancer cells:

Table 13 Differentially expressed polynucleotides: High tumor potential colon tissue vs. metastatic colon tissue

SEQ ID NO:	Sequence Name	Cluster ID	L19 clones	L20 clones	lib19/lib20	Zscore
252	RTA00000181AF.e.18.3	8	14	1	10.4712	2.56699
253	RTA00000181AF.e.17.3	8	14	1	10.4712	2.56699
491	RTA00000196F.k.11.1	3	328	46	5.33318	11.8962
581	RTA00000191AF.p.3.2	17	24	2	8.97535	3.41950
693	RTA00000198F.m.12.1	4	26	8	2.43082	2.09705
726	RTA00000200R.f.10.1	4	26	8	2.43082	2.09705
746	RTA00000178AF.i.01.2	4	26	8	2.43082	2.09705
1780	RTA00000118A.j.24.1	18	80	13	4.60274	5.51440
1899	RTA00000345F.j.09.1	13	148	23	4.81287	7.68618

Example 10: Polynucleotides Differentially Expressed in High Tumor Potential Colon Cancer Patient Tissue Versus Normal Patient Tissue

A number of polynucleotide sequences have been identified that are differentially expressed between cells derived from high tumor potential colon cancer tissue and normal tissue. Expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a

patient. For example, sequences that are highly expressed in the potential colon cancer cells are associated with or can be indicative of increased expression of genes or regulatory sequences involved in early tumor progression. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant closer attention or more frequent screening procedures to catch the malignant state as early as possible.

The following tables summarize polynucleotides that are differentially expressed between high metastatic potential colon cancer cells and normal colon cells:

Table 14 Differentially expressed polynucleotides detected in samples from two patients (UC#2 and UC#3): Higher expression in tumor potential colon tissue (UC#2:lib16; UC#3:lib19)vs. normal colon tissue (UC#2:lib15; UC#3:lib18)

SEQ ID NO:	Sequence Name	Cluster ID	Lib15 clones	Lib16 clones	lib16/lib15	Zscore
1899	RTA00000345F.j.09.1	13	14	50	3.43709	4.22436
SEQ ID NO:	Sequence Name	Cluster ID	Lib18 clones	Lib19 clones	lib19/lib18	Zscore
65	RTA00000198AF.m.16.1	51	0	14	12.2505	3.23250
252	RTA00000181AF.e.18.3	8	1	14	12.2505	2.84687
253	RTA00000181AF.e.17.3	8	1	14	12.2505	2.84687
581	RTA00000191AF.p.3.2	17	4	24	5.25021	3.24580
693	RTA00000198F.m.12.1	4	6	26	3.79182	2.98901
716	RTA00000200F.p.05.1	3984	0	7	6.12525	2.09621
726	RTA00000200R.f.10.1	4	6	26	3.79182	2.98901
746	RTA00000178AF.i.01.2	4	6	26	3.79182	2.98901
1780	RTA00000118A.j.24.1	18	10	80	7.00028	6.65963
1899	RTA00000345F.j.09.1	13	12	148	10.7921	9.86174

Table 15 Differentially expressed polynucleotides: Higher expression in normal colon tissue (UC#2:lib15) vs. tumor potential colon tissue (UC#2:lib16)

SEQ ID NO:	Sequence Name	Cluster ID	Lib15 clones	Lib16 clones	lib15/lib16	Zscore
491	RTA00000196F.k.11.1	3	242	39	6.44765	12.3988

Example 11: Polynucleotides Differentially Expressed in Growth Factor-Stimulated Human Microvascular Endothelial Cells (HMEC) Relative to Untreated HMEC

A number of polynucleotide sequences have been identified that are differentially expressed between human microvascular endothelial cells (HMEC) that have been treated with growth factors relative to untreated HMEC.

Sequences that are differentially expressed between growth factor-treated HMEC and untreated HMEC can represent sequences encoding gene products involved in angiogenesis, metastasis (cell migration), and other development and oncogenic processes. For example, sequences that are more highly expressed in HMEC treated with growth factors (such as bFGF or VEGF) relative to untreated HMEC can serve as markers of

cancer cells of higher metastatic potential. Detection of expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant closer attention or more frequent screening procedures to catch the malignant state as early as possible.

The following table summarizes identified polynucleotides with differential expression between growth factor-treated and untreated HMEC.

Table 16 Differentially expressed polynucleotides: Higher expression in bFGF treated HMEC (lib13) vs. untreated HMEC (lib12)

SEQ ID NO:	Sequence Name	Cluster ID	Lib12 clones	Lib13 clones	lib13/lib12	Zscore
648	RTA00000199F.i.9.1	7	25	52	2.07199	2.94741

Table 17 Differentially expressed polynucleotides: Higher expression in VEGF treated HMEC (lib14) vs. untreated HMEC (lib12)

SEQ ID NO:	Sequence Name	Cluster ID	Lib12 clones	Lib14 clones	lib14/lib12	Zscore
648	RTA00000199F.i.9.1	7	25	67	2.62449	4.17666
1899	RTA00000345F.j.09.1	13	22	49	2.18114	2.99887

Example 12: Polynucleotides Differentially Expressed Across Multiple Libraries

A number of polynucleotide sequences have been identified that are differentially expressed between cancerous cells and normal cells across all three tissue types tested (*i.e.*, breast, colon, and lung). Expression of these sequences in a tissue or any origin can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. These polynucleotides can also serve as non-tissue specific markers of, for example, risk of metastasis of a tumor. The following table summarizes identified polynucleotides that were differentially expressed but without tissue type-specificity in the breast, colon, and lung libraries tested.

Table 18 Polynucleotides Differentially Expressed Across Multiple Library Comparisons

SEQ ID NO.	Cluster	Clones in 1st Lib	Clones in 2nd Lib	Ratio	Cell or Tissue Sample and Cancer State Compared (Z Score)

SEQ ID NO.	Cluster	Clones in 1st Lib	Clones in 2nd Lib	Ratio	Cell or Tissue Sample and Cancer State Compared (Z Score)
2024	1605	lib1	lib2	lib1/lib2	colon: high met > low met
		36	11	3.0342732	(3.2440104)
		lib8	lib9	lib8/lib9	lung: high met > low met
		22	4	7.6861036	(4.2380835)
65	51	lib8	lib9	lib8/lib9	lung: high met > low met
		348	66	7.3684960	(17.431560)
		lib18	lib19	lib19/lib18	pt #3 colon: tumor > normal
		0	14	12.250507	(3.2325073)
		lib15	lib17	lib17/lib15	pt #2 colon: met > normal
		1	10	9.2702249	(2.2883061)
174	3442	lib8	lib9	lib9/lib8	lung: low met > high met
		5	23	3.2916548	(2.3682625)
		lib3	lib4	lib3/lib4	breast: high met > low met
		17	4	4.1465504	(2.5623912)
203	1827	lib8	lib9	lib8/lib9	lung: high met > low met
		45	15	4.1924201	(5.0989192)
		lib3	lib4	lib4/lib3	breast: low met > high met
		37	157	4.3491051	(8.7172773)
2245	213	lib8	lib9	lib9/lib8	lung: low met > high met
		137	403	2.1049458	(7.6610331)
		lib3	lib4	lib3/lib4	breast: high met > low met
		17	4	4.1465504	(2.5623912)
990	6268	lib8	lib9	lib8/lib9	lung: high met > low met
		5	0	6.9873669	(2.1898837)
		lib3	lib4	lib4/lib3	breast: low met > high met
		3	18	6.1496901	(3.1117967)
252	8	lib8	lib9	lib8/lib9	lung: high met > low met
		1355	122	15.521118	(39.021411)
		lib19	lib20	lib19/lib20	pt. #3 colon: tumor > met
		14	1	10.471247	(2.5669948)
		lib18	lib19	lib19/lib18	pt #3 colon: tumor > normal
		1	14	12.250507	(2.8468716)
253	8	lib8	lib9	lib8/lib9	lung: high met > low met
		1355	122	15.521118	(39.021411)
		lib19	lib20	lib19/lib20	pt. #3 colon: tumor > met
		14	1	10.471247	(2.5669948)
		lib18	lib19	lib19/lib18	pt #3 colon: tumor > normal
		1	14	12.250507	(2.8468716)
2325	349	lib3	lib4	lib3/lib4	breast: high met > low met
		77	1	75.125736	(8.3844087)
		lib1	lib2	lib2/lib1	colon: low met > high met
		69	138	2.1571737	(5.2749799)

SEQ ID NO.	Cluster	Clones in 1st Lib	Clones in 2nd Lib	Ratio	Cell or Tissue Sample and Cancer State Compared (Z Score)
1095	4423	lib3	lib4	lib3/lib4	breast: high met > low met
		12	1	11.707907	(2.7293134)
		lib1	lib2	lib2/lib1	colon: low met > high met
		1	8	8.6286948	(2.1149516)
1124	779	lib3	lib4	lib3/lib4	breast: high met > low met
		60	22	2.6608879	(3.9749537)
		lib1	lib2	lib2/lib1	colon: low met > high met
		27	54	2.1571737	(3.2316908)
387	1002	lib3	lib4	lib3/lib4	breast: high met > low met
		42	20	2.0488837	(2.5703094)
		lib1	lib2	lib2/lib1	colon: low met > high met
		12	65	5.8423454	(6.2625969)
419	4769	lib8	lib9	lib8/lib9	lung: high met > low met
		10	3	4.6582446	(2.2936274)
		lib3	lib4	lib4/lib3	breast: low met > high met
		2	20	10.249483	(3.6825426)
420	4769	lib8	lib9	lib8/lib9	lung: high met > low met
		10	3	4.6582446	(2.2936274)
		lib3	lib4	lib4/lib3	breast: low met > high met
		2	20	10.249483	(3.6825426)
1205	3500	lib3	lib4	lib3/lib4	breast: high met > low met
		12	3	3.9026356	(2.0180506)
		lib1	lib2	lib2/lib1	colon: low met > high met
		3	13	4.6738763	(2.4029818)
491	3	lib1	lib2	lib1/lib2	colon: high met > low met
		5268	2164	2.2570094	(32.965564)
		lib8	lib9	lib8/lib9	lung: high met > low met
		986	392	3.5150733	(22.468331)
		lib19	lib20	lib19/lib20	pt #3 colon: tumor > met
		328	46	5.3331820	(11.896271)
		lib18	lib20	lib18/lib20	pt #3 colon: normal > met
		409	46	7.5999342	(15.399861)
		lib15	lib17	lib15/lib17	pt#2 colon: normal > met
		242	26	10.04	(13.789000)
		lib15	lib16	lib15/lib16	pt#2 colon: normal > tumor
		242	39	6.44765	12.39883
552	35	lib8	lib9	lib8/lib9	lung: high met > low met
		868	11	110.27335	(34.289704)
		lib3	lib4	lib4/lib3	breast: low met > high met
		386	1967	5.2229880	(33.232871)
560	1577	lib3	lib4	lib3/lib4	breast: high met > low met
		25	3	8.1304909	(3.9038139)

SEQ ID NO.	Cluster	Clones in 1st Lib	Clones in 2nd Lib	Ratio	Cell or Tissue Sample and Cancer State Compared (Z Score)
		lib1	lib2	lib2/lib1	colon: low met > high met
		12	40	3.5952895	(4.0199130)
581	17	lib19	lib20	lib19/lib20	pt #3 colon: tumor > met
		24	2	8.9753551	(3.4195074)
		lib18	lib19	lib19/lib18	pt #3 colon: tumor > normal
		4	24	5.2502174	(3.2458055)
590	2444	lib3	lib4	lib4/lib3	breast: low met > high met
		26	55	2.1681599	(3.2224421)
		lib8	lib9	lib9/lib8	lung: low met > high met
		12	37	2.2063628	(2.2999846)
1354	211	lib3	lib4	lib3/lib4	breast: high met > low met
		121	43	2.7454588	(5.8560985)
		lib1	lib2	lib2/lib1	colon: low met > high met
		109	206	2.0384302	(6.0859794)
1387	1002	lib3	lib4	lib3/lib4	breast: high met > low met
		42	20	2.0488837	(2.5703094)
		lib1	lib2	lib2/lib1	colon: low met > high met
		12	65	5.8423454	(6.2625969)
648	7	lib12	lib14	lib14/lib12	HMEC: VEGF > untreated
		25	67	2.6244913	(4.1766696)
		lib12	lib13	lib13/lib12	HMEC: bFGF > untreated
		25	52	2.0719962	(2.9474155)
693	4	lib8	lib9	lib8/lib9	lung: high met > low met
		506	209	3.3833566	(15.730912)
		lib3	lib4	lib4/lib3	breast: low met > high met
		987	2807	2.9149240	(30.381945)
		lib19	lib20	lib19/lib20	pt#3 colon: tumor > met
		26	8	2.4308253	(2.0970580)
		lib18	lib19	lib19/lib18	pt#3 colon: tumor > normal
		6	26	3.7918237	(2.9890107)
726	4	lib8	lib9	lib8/lib9	lung: high met > low met
		506	209	3.3833566	(15.730912)
		lib3	lib4	lib4/lib3	breast: low met > high met
		987	2807	2.9149240	(30.381945)
		lib19	lib20	lib19/lib20	pt#3 colon: tumor > met
		26	8	2.4308253	(2.0970580)
		lib18	lib19	lib19/lib18	pt#3 colon: tumor > normal
		6	26	3.7918237	(2.9890107)
746	4	lib8	lib9	lib8/lib9	lung: high met > low met
		506	209	3.3833566	(15.730912)
		lib3	lib4	lib4/lib3	breast: low met > high met
		987	2807	2.9149240	(30.381945)

SEQ ID NO.	Cluster	Clones in 1st Lib	Clones in 2nd Lib	Ratio	Cell or Tissue Sample and Cancer State Compared (Z Score)
		lib19	lib20	lib19/lib20	pt#3 colon: tumor > met
		26	8	2.4308253	(2.0970580)
		lib18	lib19	lib19/lib18	pt#3 colon: tumor > normal
		6	26	3.7918237	(2.9890107)
1780	18	lib19	lib20	lib19/lib20	pt#3 colon: tumor > met
		80	13	4.6027462	(5.5144093)
		lib18	lib19	lib19/lib18	pt#3 colon: tumor > normal
		10	80	7.0002899	(6.6596394)
		lib15	lib17	lib17/lib15	pt#3 colon: met > normal
		4	23	5.3303793	(3.2702852)
1899	13	lib19	lib20	lib19/lib20	pt#3 colon: tumor > met
		148	23	4.8128716	(7.6861840)
		lib18	lib20	lib20/lib18	pt#3 colon: met > normal
		12	23	2.2423439	(2.1607719)
		lib18	lib19	lib19/lib18	pt#3 colon: tumor > normal
		12	148	10.792113	(9.8617485)
		lib15	lib17	lib17/lib15	pt#2 colon: met > normal
		14	80	5.2972714	(6.3458044)
		lib15	lib16	lib16/lib15	pt#2 colon: tumor > normal
		14	50	3.4370927	(4.2243697)
		lib12	lib14	lib14/lib12	HMEC: VEGF > untreated
		22	49	2.1811410	(2.9988774)
1915	1508	lib1	lib2	lib1/lib2	colon: high met > low met
		46	17	2.5087292	(3.2300592)
		lib3	lib4	lib3/lib4	breast: high met > low met
		21	5	4.0977674	(2.8791960)
1979	48	lib8	lib9	lib8/lib9	lung: high met > low met
		342	155	3.0834574	(12.213852)
		lib3	lib4	lib4/lib3	breast: low met > high met
		412	1020	2.5374934	(16.526285)
2007	1275	lib3	lib4	lib4/lib3	breast: low met > high met
		15	32	2.1865564	(2.4185764)
		lib8	lib9	lib9/lib8	lung: low met > high met
		10	42	3.0054239	3.1471113

high met = high metastatic potential; low met = low metastatic potential;
met = metastasized; tumor = non-metastasized tumor;
pt = patient; #2 = UC#2; #3 = UC#3;
HMEC = human microvascular endothelial cell;
bFGF = bFGF treated; VEGF = VEGF treated

Example 12: Polynucleotides Exhibiting Colon-Specific Expression

The cDNA libraries described herein were also analyzed to identify those polynucleotides that were specifically expressed in colon cells or tissue, *i.e.*, the polynucleotides were identified in libraries prepared from colon cell lines or tissue, but not in libraries of breast or lung origin. The polynucleotides that were expressed in a colon cell line and/or in colon tissue, but were present in the breast or lung cDNA libraries described herein, are shown in Table 19 (inserted before claims).

No clones corresponding to the colon-specific polynucleotides in the table above were present in any of Libraries 3, 4, 8, 9, 12, 13, 14, or 15. The polynucleotide provided above can be used as markers of cells of colon origin, and find particular use in reference arrays, as described above.

Example 13: Identification of Contiguous Sequences Having a Polynucleotide of the Invention

The novel polynucleotides were used to screen publicly available and proprietary databases to determine if any of the polynucleotides of SEQ ID NOS:1-2502 would facilitate identification of a contiguous sequence, *e.g.*, the polynucleotides would provide sequence that would result in 5' extension of another DNA sequence, resulting in production of a longer contiguous sequence composed of the provided polynucleotide and the other DNA sequence(s). Contiging was performed using the Gelmerge application (default settings) of GCG from the Univ. of Wisconsin.

Using these parameters, 146 contiged sequences were generated. These contiged sequences are provided as SEQ ID NOS:5107-5252 (see Table 1). The contiged sequences can be correlated with the sequences of SEQ ID NOS:1-2502 upon which the contiged sequences are based by, for example, identifying those sequences of SEQ ID NOS:1-2502 and the contiged sequences of SEQ ID NOS:5107-5252 that share the same clone name in Table 1.

The contiged sequences (SEQ ID NO:5107-5252) thus represent longer sequences that encompass a polynucleotide sequence of the invention. The contiged sequences were then translated in all three reading frames to determine the best alignment with individual sequences using the BLAST programs as described above for SEQ ID NOS:1-2502 and the validation sequences "SEQ ID NOS:2503-5106." Again the sequences were masked using the XBLAST program for masking low complexity as described above in Example 1

(Table 2). Several of the contiged sequences were found to encode polypeptides having characteristics of a polypeptide belonging to a known protein families (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 20). Thus the invention encompasses fragments, fusions, and variants of such polynucleotides that retain biological activity associated with the protein family and/or functional domain identified herein.

Table 20 Profile hits using contiged sequences

SEQ ID NO	Biological Activity (Profile)	Start	Stop	Score	Direction	Sequence Name
5111	7tm_2	71	915	8090	for	RTA00000399F.o.01.1
5120	7tm_2	101	919	8475	rev	RTA00000341F.m.21.1
5174	7tm_2	3	963	9431	for	RTA00000192AF.h.19.1
5197	7tm_2	214	1073	8528	rev	RTA00000192AF.f.3.1
5208	ANK	546	629	4920	for	RTA00000190AF.f.5.1
5120	asp	126	1067	6620	rev	RTA00000341F.m.21.1.
5241	asp	112	1094	6553	for	RTA00000418F.i.06.1
5243	asp	347	1028	5981	for	RTA00000339F.b.02.1
5197	ATPases	113	781	5690	for	RTA00000192AF.f.3.1
5239	ATPases	1	348	15955	for	RTA00000401F.m.07.1
5241	ATPases	110	823	6782	for	RTA00000418F.i.06.1
5243	ATPases	338	874	5832	for	RTA00000339F.b.02.1
5125	protkinase	59	685	5791	for	RTA00000182AF.c.5.1
5217	protkinase	75	1035	5405	for	RTA00000181AF.p.12.3
5237	protkinase	25	546	5107	rev	RTA00000118A.n.5.1
5248	protkinase	14	422	5103	rev	RTA00000419F.k.05.1
5252	protkinase	89	755	5499	for	RTA00000404F.m.17.2
5120	Wnt_dev_sign	3	948	11036	for	RTA00000341F.m.21.1

All stop/start sequences are provided in the forward direction.

Descriptions of the profiles for the indicated protein families and functional domains are provided in Example 3 above.

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All publications and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference. The citation of any publication is for its disclosure prior to the filing date and should not be construed as an admission that the present invention is not entitled to antedate such publication by virtue of prior invention.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it is readily apparent to those of ordinary skill in the art in light of the teachings of this invention that certain changes and modifications may be made thereto without departing from the spirit or scope of the appended claims.

Deposit Information:

The following materials were deposited with the American Type Culture Collection: CMCC = (Chiron Master Culture Collection)

Cell Lines Deposited with ATCC

Cell Line	Deposit Date	ATCC Accession No.	CMCC Accession No.
KM12L4-A	March 19, 1998	CRL-12496	11606
Km12C	May 15, 1998	CRL-12533	11611
MDA-MB-231	May 15, 1998	CRL-12532	10583
MCF-7	October 9, 1998	CRL-12584	10377

cDNA Libraries Deposited with ATCC

cDNA Library No. Deposit Date ATCC Accession No.	cDNA Library ES21 January 22, 1999 ATCC No. 207068	cDNA Library ES22 January 22, 1999 ATCC No. 207069	cDNA Library ES23 January 22, 1999 ATCC No. 207070
Clone Names	M00001575D:G05 M00001460A:A03 M00001655C:E04 M00001676C:C11 M00001679D:D05 M00001546B:C05 M00001453B:E10	M00001364A:E11 M00001694C:H10 M00003841D:E03 M00004176D:B12 M00001387B:E02 M00004282B:A04 M00001376B:F03 M00001445D:A06 M00001399C:H12 M00004208D:H08	M00001489B:A06 M00001585A:D06 M00001637B:E07 M00001529D:H02 M00001500C:C08 M00001483B:D03 M00001623C:H07 M00003975B:F03

cDNA Library No.	cDNA Library ES24	cDNA Library ES25	cDNA Library ES26
Deposit Date	January 22, 1999	January 22, 1999	January 22, 1999
ATCC Accession No.	ATCC No. 207071	ATCC No. 207072	ATCC No. 207073
Clone Names	M00003987D:D06	M00001675D:B08	M00001479C:F10
	M00004073A:H12	M00001589B:E12	M00003842D:F08
	M00004104B:F11	M00001607D:A11	M00003901A:C09
	M00004237D:D08	M00001636A:E07	M00003982A:B06
	M00004111D:B07	M00001530A:B12	M00003824A:A06
	M00004138B:B11	M00001495B:B08	M00003845D:C03
	M00001391C:C04	M00001487C:F01	M00003856A:B07
	M00001448D:E12	M00001644B:D06	M00004104B:A02
	M00001450A:B03	M00003751C:A04	M00004110C:E03
	M00001451B:F01		

In addition, libraries of selected clones were deposited. The details of these deposits are provided in Tables 21-24.

This deposit is provided merely as convenience to those of skill in the art, and is not an admission that a deposit is required under 35 U.S.C. §112. The sequence of the polynucleotides contained within the deposited material, as well as the amino acid sequence of the polypeptides encoded thereby, are incorporated herein by reference and are controlling in the event of any conflict with the written description of sequences herein. A license may be required to make, use, or sell the deposited material, and no such license is granted hereby.

Retrieval of Individual Clones from Deposit of Pooled Clones

Where the ATCC deposit is composed of a pool of cDNA clones, the deposit was prepared by first transfecting each of the clones into separate bacterial cells. The clones were then deposited as a pool of equal mixtures in the composite deposit. Particular clones can be obtained from the composite deposit using methods well known in the art. For example, a bacterial cell containing a particular clone can be identified by isolating single colonies, and identifying colonies containing the specific clone through standard colony hybridization techniques, using an oligonucleotide probe or probes designed to specifically hybridize to a sequence of the clone insert (*e.g.*, a probe based upon unmasked sequence of the encoded polynucleotide having the indicated SEQ ID NO). The probe should be designed to have a T_m of approximately 80°C (assuming 2°C for each A or T and 4°C for each G or C). Positive colonies can then be picked, grown in culture, and the recombinant clone isolated. Alternatively, probes designed in this manner can be used to PCR to isolate a nucleic acid molecule from the pooled clones according to methods well known in the art,

e.g., by purifying the cDNA from the deposited culture pool, and using the probes in PCR reactions to produce an amplified product having the corresponding desired polynucleotide sequence.

Table 1.

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1	1/28/98	1	RTA00000197AF.i.16.1	M00001490A:D11	16402
2	1/28/98	2	RTA00000188AF.n.15.1	M00003804A:H04	0
3	1/28/98	3	RTA00000197AF.e.24.1	M00001456B:F10	39250
4	1/28/98	4	RTA00000198R.f.04.1	M00001607D:F07	5023
5	1/28/98	5	RTA00000195R.c.11.1	M00003811A:E03	66087
6	1/28/98	6	RTA00000195AF.c.16.1	M00003829C:A11	23508
7	1/28/98	7	RTA00000197AR.e.12.1	M00001454B:G07	22095
8	1/28/98	8	RTA00000200AF.h.11.2	M00004146A:C08	8399
9	1/28/98	9	RTA00000177AF.g.22.1	M00001347C:G08	7031
10	1/28/98	10	RTA00000198AF.n.16.1	M00001694C:H10	3721
11	1/28/98	11	RTA00000199AF.i.17.1	M00003880C:F10	9615
12	1/28/98	12	RTA00000183AF.i.15.2	M00001529B:C04	2642
13	1/28/98	13	RTA00000190AF.i.5.1	M00003919A:A10	0
14	1/28/98	14	RTA00000196R.c.11.2	M00001352A:E12	13658
15	1/28/98	15	RTA00000177AR.n.8.1	M00001356D:F06	4188
16	1/28/98	16	RTA00000196AF.e.16.1	M00001363C:H02	39252
17	1/28/98	17	RTA00000183AR.e.14.2	M00001506B:D09	17437
18	1/28/98	18	RTA00000196AF.c.17.1	M00001352C:F06	39602
19	1/28/98	19	RTA00000185AF.a.8.1	M00001570D:A03	4868
20	1/28/98	20	RTA00000181AF.l.14.2	M00001454D:D06	2364
21	1/28/98	21	RTA00000131A.g.19.2	M00001449A:G10	36535
22	1/28/98	22	RTA00000187AR.o.10.2	M00001718D:F07	8984
23	1/28/98	23	RTA00000198R.b.08.1	M00001567C:H12	22636
24	1/28/98	24	RTA00000200AF.f.11.1	M00004111D:D11	0
25	1/28/98	25	RTA00000196AF.c.1.1	M00001349C:C05	8171
26	1/28/98	26	RTA00000200R.g.09.1	M00004131B:H09	22785
27	1/28/98	27	RTA00000192AF.i.12.1	M00004169C:C12	5319
28	1/28/98	28	RTA00000178AR.o.01.5	M00001387B:H07	0
29	1/28/98	29	RTA00000200AF.b.19.1	M00004042D:H02	22847
30	1/28/98	30	RTA00000184AR.n.07.2	M00001561C:F06	0
31	1/28/98	31	RTA00000200F.m.15.1	M00004236C:D10	22601
32	1/28/98	32	RTA00000198R.m.19.1	M00001680D:D02	40041
33	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
34	1/28/98	34	RTA00000197AF.n.8.1	M00001536D:A12	4101
35	1/28/98	35	RTA00000191AF.n.17.1	M00004091B:D11	7848
36	1/28/98	36	RTA00000181AF.p.4.3	M00001460A:A03	40392
37	1/28/98	37	RTA00000181AF.n.15.2	M00001457A:B07	86128
38	1/28/98	38	RTA00000196R.k.07.1	M00001399C:D09	22443
39	1/28/98	39	RTA00000189AR.b.19.1	M00003832B:E01	5294
40	1/28/98	40	RTA00000200AR.e.02.1	M00004090A:F09	36059
41	1/28/98	41	RTA00000184F.k.12.1	M00001557D:D09	8761
42	1/28/98	42	RTA00000184F.j.21.1	M00001557A:D02	7065
43	1/28/98	43	RTA00000179AF.c.14.3	M00001392D:H04	0
44	1/28/98	44	RTA00000199F.f.08.2	M00003841D:E03	12445
45	1/28/98	45	RTA00000197AR.f.12.1	M00001458C:E01	3513
46	1/28/98	46	RTA00000182AF.f.13.1	M00001470C:B10	8010
47	1/28/98	47	RTA00000192AF.m.12.1	M00004191D:B11	0
48	1/28/98	48	RTA00000177AR.a.23.5	M00001339D:G02	6995
49	1/28/98	49	RTA00000198R.o.05.1	M00003750A:D01	26702

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
50	1/28/98	50	RTA00000201R.a.02.1	M00004295B:D02	35362
51	1/28/98	51	RTA00000199R.k.07.1	M00003901C:A03	12973
52	1/28/98	52	RTA00000201R.b.02.1	M00004319D:G09	22660
53	1/28/98	53	RTA00000199AF.p.9.1	M00003988A:E10	10430
54	1/28/98	54	RTA00000200F.o.22.1	M00004282B:A04	983
55	1/28/98	55	RTA00000186AF.i.21.1	M00001636C:H09	6033
56	1/28/98	56	RTA00000177AF.e.9.1	M00001343D:C04	37442
57	1/28/98	57	RTA00000198AF.k.20.1	M00001660C:B12	22553
58	1/28/98	58	RTA00000199F.b.01.2	M00003778A:D08	19118
59	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
59	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
60	1/28/98	60	RTA00000196AR.i.12.3	M00001389D:G11	38800
61	1/28/98	61	RTA00000197AF.h.11.1	M00001476D:G03	22264
62	1/28/98	62	RTA00000190AF.a.18.2	M00003900D:B10	0
63	1/28/98	63	RTA00000184AF.k.19.1	M00001558B:D08	8022
64	1/28/98	64	RTA00000198AF.p.12.1	M00003763D:E10	8878
65	1/28/98	65	RTA00000198AF.m.16.1	M00001679D:D05	51
66	1/28/98	66	RTA00000199F.c.09.2	M00003800A:C09	16824
67	1/28/98	67	RTA00000200AF.g.07.1	M00004128B:G01	0
68	1/28/98	68	RTA00000184F.k.19.1	M00001558B:D08	8022
69	1/28/98	69	RTA00000186AF.h.8.1	M00001632C:C09	35547
70	1/28/98	70	RTA00000192AF.e.3.1	M00004138B:H02	13272
71	1/28/98	71	RTA00000193AR.o.16.3	M00004409B:A11	52972
72	1/28/98	72	RTA00000200F.a.6.1	M00004029B:F11	36952
73	1/28/98	73	RTA00000177AF.e.21.3	M00001344A:H07	4306
74	1/28/98	74	RTA00000196AF.h.20.1	M00001385B:F10	0
75	1/28/98	75	RTA00000180AR.h.19.2	M00001428A:H10	84182
76	1/28/98	76	RTA00000200AF.h.05.2	M00004142D:E10	10950
77	1/28/98	77	RTA00000197AF.n.2.1	M00001535A:D02	6229
78	1/28/98	78	RTA00000199R.f.09.1	M00003842B:D09	22907
79	1/28/98	79	RTA00000199AF.p.4.1	M00003985C:F01	10282
80	1/28/98	80	RTA00000196AF.p.13.2	M00001432A:E06	6125
81	1/28/98	81	RTA00000196AF.b.15.1	M00001347B:E01	5102
82	1/28/98	82	RTA00000183AF.l.18.1	M00001535D:C01	3484
83	1/28/98	83	RTA00000186AF.f.24.2	M00001629B:E06	0
84	1/28/98	84	RTA00000191AF.h.14.1	M00004056B:D09	13553
85	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
86	1/28/98	86	RTA00000189AF.l.22.1	M00003879C:G10	33333
87	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
87	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
88	1/28/98	88	RTA00000197AF.e.23.1	M00001456B:C09	37157
89	1/28/98	89	RTA00000177AF.n.8.3	M00001356D:F06	4188
90	1/28/98	90	RTA00000199F.f.15.2	M00003845A:H12	8772
91	1/28/98	91	RTA00000198AF.j.19.1	M00001653C:F12	38914
92	1/28/98	92	RTA00000198AF.j.18.1	M00001653B:G07	22759
93	1/28/98	93	RTA00000200F.o.11.1	M00004270A:F11	0
94	1/28/98	94	RTA00000195AF.b.4.1	M00001490C:D07	0
95	1/28/98	95	RTA000001°0AF.g.3.1	M00001425A:C11	9024
96	1/28/98	96	RTA00000197AF.j.20.1	M00001496C:C11	4915
97	1/28/98	97	RTA00000197AF.o.2.1	M00001541C:B07	5739

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
98	1/28/98	98	RTA00000200AF.f.14.1	M00004115D:C08	22051
99	1/28/98	99	RTA00000184AF.d.8.1	M00001548A:A08	4393
100	1/28/98	100	RTA00000200R.f.14.1	M00004115D:C08	22051
101	1/28/98	101	RTA00000191AF.d.08.2	M00003997B:G07	970
102	1/28/98	102	RTA00000199R.j.08.1	M00003884D:G07	37844
103	1/28/98	103	RTA00000199F.e.10.1	M00003822A:F02	22906
104	1/28/98	104	RTA00000196R.h.03.1	M00001381A:D02	6636
105	1/28/98	105	RTA00000179AF.g.12.3	M00001398A:G03	36390
106	1/28/98	106	RTA00000197AF.n.21.1	M00001540B:C09	0
107	1/28/98	107	RTA00000196R.i.13.1	M00001390A:A09	9857
108	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
109	1/28/98	109	RTA00000197AF.d.12.1	M00001451D:C10	39546
110	1/28/98	110	RTA00000197R.h.01.1	M00001470A:H01	13075
111	1/28/98	111	RTA00000198AF.o.12.1	M00003751D:B02	22038
112	1/28/98	112	RTA00000177AF.m.8.1	M00001354C:C10	8010
113	1/28/98	113	RTA00000196AF.d.09.1	M00001354B:B10	16934
114	1/28/98	114	RTA00000200R.f.02.1	M00004108A:A09	7138
115	1/28/98	115	RTA00000179AR.o.20.3	M00001409D:F11	2409
116	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
117	1/28/98	117	RTA00000199AF.j.18.1	M00003889D:B09	5140
118	1/28/98	118	RTA00000199F.b.24.2	M00003794A:B03	0
119	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
120	1/28/98	120	RTA00000178AR.m.19.5	M00001384D:H07	0
121	1/28/98	121	RTA00000199AF.o.16.1	M00003979A:F03	16721
122	1/28/98	122	RTA00000197AF.l.15.1	M00001517B:G08	4947
123	1/28/98	123	RTA00000191AF.k.6.1	M00004078B:A11	5451
124	1/28/98	124	RTA00000199AR.m.06.1	M00003933C:D06	19122
125	1/28/98	125	RTA00000197AF.k.15.1	M00001504D:D11	22750
126	1/28/98	126	RTA00000201F.d.16.1	M00004388B:A08	0
127	1/28/98	127	RTA00000178AF.k.18.1	M00001382A:F04	9755
128	1/28/98	128	RTA00000196F.i.12.1	M00001389D:G11	38800
129	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
130	1/28/98	130	RTA00000196AF.h.23.1	M00001386A:C02	13357
131	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
132	1/28/98	132	RTA00000178AF.f.20.3	M00001372C:F07	39881
133	1/28/98	133	RTA00000181AR.n.20.3	M00001457B:E03	0
134	1/28/98	134	RTA00000197F.e.11.1	M00001454B:G03	2306
135	1/28/98	135	RTA00000196AF.c.22.1	M00001352D:C05	22548
136	1/28/98	136	RTA00000197AF.c.10.1	M00001448B:F06	10400
137	1/28/98	137	RTA00000181AF.m.4.3	M00001455A:E09	13238
138	1/28/98	138	RTA00000182AF.a.3.3	M00001462B:A10	0
139	1/28/98	139	RTA00000191AF.d.01.2	M00003996A:A06	7031
140	1/28/98	140	RTA00000199F.a.2.1	M00003772A:D07	12674
141	1/28/98	141	RTA00000196AF.c.6.1	M00001350A:D06	23148
142	1/28/98	142	RTA00000198AF.k.19.1	M00001660B:C04	75879
143	1/28/98	143	RTA00000199R.h.09.1	M00003867C:H09	76020
144	1/28/98	144	RTA00000198AF.o.18.1	M00003755A:A09	13018
145	1/28/98	145	RTA00000178AF.h.24.1	M00001376B:C06	6745
146	1/28/98	146	RTA00000185AF.a.19.2	M00001571C:H06	5749
147	1/28/98	147	RTA00000185AF.c.24.2	M00001578B:E04	23001

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
148	1/28/98	148	RTA00000199F.h.17.2	M00003871A:A05	36254
149	1/28/98	149	RTA00000181AR.h.06.3	M00001450D:D04	87226
150	1/28/98	150	RTA00000184F.k.09.1	M00001557C:H07	7065
151	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
152	1/28/98	152	RTA00000196AF.c.20.1	M00001352C:H02	8934
153	1/28/98	153	RTA00000200F.n.17.2	M00004252C:E03	19064
154	1/28/98	154	RTA00000196F.e.7.1	M00001360D:E11	1039
155	1/28/98	155	RTA00000197F.e.8.1	M00001454A:C11	3135
156	1/28/98	156	RTA00000199R.o.12.1	M00003977A:E04	16128
157	1/28/98	157	RTA00000188AF.n.01.1	M00003801A:B10	36412
158	1/28/98	158	RTA00000198AF.k.03.1	M00001655A:F06	22765
159	1/28/98	159	RTA00000182AF.l.12.1	M00001487A:A05	1027
160	1/28/98	160	RTA00000192AF.b.20.1	M00004118D:E08	0
161	1/28/98	161	RTA00000183AF.e.23.2	M00001506D:A09	0
162	1/28/98	162	RTA00000201F.e.15.1	M00004444B:D11	9960
163	1/28/98	163	RTA00000192AR.e.13.3	M00004142A:B12	9457
164	1/28/98	164	RTA00000193AR.i.14.4	M00004307C:A06	9457
165	1/28/98	165	RTA00000192AF.g.23.1	M00004157C:A09	6455
166	1/28/98	166	RTA00000198AF.f.21.1	M00001614D:D09	22676
167	1/28/98	167	RTA00000179AF.d.22.3	M00001394C:C11	7955
168	1/28/98	168	RTA00000177AR.k.23.1	M00001352D:D02	35550
169	1/28/98	169	RTA00000196AF.g.24.1	M00001380C:F02	8685
170	1/28/98	170	RTA00000197AF.d.23.1	M00001453A:E11	16130
171	1/28/98	171	RTA00000198R.c.07.1	M00001575D:G05	19181
172	1/28/98	172	RTA00000186AF.p.09.2	M00001655C:E04	6879
173	1/28/98	173	RTA00000200AR.b.07.1	M00004039C:C01	17125
174	1/28/98	174	RTA00000181AF.e.22.3	M00001448D:F09	3442
175	1/28/98	175	RTA00000200F.i.5.1	M00004156B:A12	22892
176	1/28/98	176	RTA00000183AF.h.19.1	M00001528A:A01	5175
177	1/28/98	177	RTA00000197AF.c.3.1	M00001447C:C01	3145
178	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
179	1/28/98	179	RTA00000179AF.f.20.3	M00001397B:B09	16154
180	1/28/98	180	RTA00000199AF.j.12.1	M00003887A:A06	22461
181	1/28/98	181	RTA00000198AF.d.2.1	M00001585A:F07	0
182	1/28/98	182	RTA00000196AF.h.16.1	M00001384C:E03	39895
183	1/28/98	183	RTA00000198AF.c.17.1	M00001579C:E08	6923
184	1/28/98	184	RTA00000197AF.f.7.1	M00001457C:C11	19261
185	2/24/98	234	RTA00000195AF.d.4.1	M00003881D:D06	22766
185	1/28/98	185	RTA00000195AF.d.4.1	M00003881D:D06	22766
186	1/28/98	186	RTA00000198R.p.09.1	M00003761D:E02	10473
187	1/28/98	187	RTA00000180AR.j.04.4	M00001429C:G12	22300
188	1/28/98	188	RTA00000188AF.o.05.1	M00003806D:G05	4668
189	1/28/98	189	RTA00000197AF.h.10.1	M00001476B:F10	15554
190	1/28/98	190	RTA00000134A.c.7.1	M00001528A:A01	5175
191	1/28/98	191	RTA00000187AF.p.23.1	M00003748B:F02	39804
192	1/28/98	192	RTA00000185AF.m.7.1	M00001605C:D12	39804
193	1/28/98	193	RTA00000199AF.n.3.1	M00003946D:C11	0
194	1/28/98	194	RTA00000200R.k.01.1	M00004188C:A09	40049
195	1/28/98	195	RTA00000198AF.c.10.1	M00001577B:H02	77149
196	1/28/98	196	RTA00000198F.e.10.1	M00001599B:E09	9727

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
197	1/28/98	197	RTA00000198F.l.12.1	M00001669C:B01	8592
198	1/28/98	198	RTA00000197AR.e.07.1	M00001453D:G12	86969
199	1/28/98	199	RTA00000199R.c.09.1	M00003800A:C09	16824
200	1/28/98	200	RTA00000182AF.f.2.1	M00001469D:D02	4794
201	1/28/98	201	RTA00000198AF.p.18.1	M00003769B:D03	23081
202	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
203	1/28/98	203	RTA00000201F.d.09.1	M00004380B:A05	1827
204	1/28/98	204	RTA00000180AR.o.5.2	M00001437D:C04	7848
205	1/28/98	205	RTA00000189AF.g.11.1	M00003858D:F12	0
206	1/28/98	206	RTA00000181AF.o.04.2	M00001457C:C12	22205
207	1/28/98	207	RTA00000199AF.l.19.1	M00003924B:D04	22460
208	1/28/98	208	RTA00000198AF.h.22.1	M00001635C:A03	22366
209	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
210	1/28/98	210	RTA00000189AR.b.12.1	M00003829B:G03	17233
211	1/28/98	211	RTA00000199AF.m.15.1	M00003939A:A02	10101
212	1/28/98	212	RTA00000197AF.j.9.1	M00001494B:C01	13236
213	1/28/98	213	RTA00000200F.o.04.1	M00004260D:C12	12514
214	1/28/98	214	RTA00000200AF.f.22.1	M00004121C:F06	16521
215	1/28/98	215	RTA00000192AR.e.14.3	M00004142A:D08	3300
216	1/28/98	216	RTA00000188AF.g.9.1	M00003774B:B08	4959
217	1/28/98	217	RTA00000198AF.h.3.1	M00001625D:C07	22562
218	1/28/98	218	RTA00000188AF.o.18.1	M00003811D:A12	13678
219	1/28/98	219	RTA00000198AF.m.19.1	M00001680D:D02	40041
220	1/28/98	220	RTA00000200AF.h.01.2	M00004141D:A09	0
221	1/28/98	221	RTA00000189AF.i.17.1	M00003868C:H10	16814
222	1/28/98	222	RTA00000185AF.i.4.1	M00001594A:B12	13942
223	1/28/98	223	RTA00000197F.i.9.1	M00001488D:C10	0
224	1/28/98	224	RTA00000188AF.m.11.1	M00003799A:D09	0
225	1/28/98	225	RTA00000189AF.b.5.1	M00003828A:E04	3784
226	1/28/98	226	RTA00000191AR.o.09.4	M00004096A:G02	0
227	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
228	1/28/98	228	RTA00000187AR.h.15.2	M00001679A:A06	6660
229	1/28/98	229	RTA00000198AF.g.3.1	M00001615C:F03	0
230	1/28/98	230	RTA00000185AR.b.18.1	M00001575B:C09	12171
231	1/28/98	231	RTA00000192AF.l.13.2	M00004185C:C03	11443
232	1/28/98	232	RTA00000186AF.j.03.2	M00001638A:E07	0
233	1/28/98	233	RTA00000197AF.l.8.1	M00001511B:C06	39954
234	1/28/98	234	RTA00000191AF.f.8.1	M00004035A:A04	6541
235	1/28/98	235	RTA00000201AF.a.02.1	M00004295B:D02	35362
236	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
237	1/28/98	237	RTA00000197AF.k.10.1	M00001500D:B11	0
238	1/28/98	238	RTA00000187AR.k.12.1	M00001679D:F02	78415
239	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
240	1/28/98	240	RTA00000178AF.e.1.1	M00001369A:H12	2664
241	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
242	1/28/98	242	RTA00000198AF.m.17.1	M00001679D:F06	77992
243	1/28/98	243	RTA00000181AF.m.15.3	M00001455D:A11	12081
244	1/28/98	244	RTA00000199F.f.12.2	M00003844C:A08	8131
245	1/28/98	245	RTA00000200AF.k.7.1	M00004193C:G11	0
246	1/28/98	246	RTA00000199AF.l.4.1	M00003911D:B04	4410

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
247	1/28/98	247	RTA00000198AF.k.08.1	M00001656C:G08	17436
248	1/28/98	248	RTA00000198R.c.14.1	M00001578D:C04	39814
249	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
250	1/28/98	250	RTA00000192AF.j.21.1	M00004176D:B12	2289
251	1/28/98	251	RTA00000192AF.n.13.1	M00004197D:H01	8210
252	1/28/98	252	RTA00000181AF.e.18.3	M00001448D:C09	8
253	1/28/98	253	RTA00000181AF.e.17.3	M00001448D:C09	8
254	1/28/98	254	RTA00000178AF.n.2.1	M00001385C:H11	17083
255	1/28/98	255	RTA00000199AF.j.17.1	M00003889A:D10	5121
256	1/28/98	256	RTA00000184AR.e.15.1	M00001549C:E06	16347
257	1/28/98	257	RTA00000198AF.e.20.1	M00001604C:E09	9810
258	1/28/98	258	RTA00000199F.h.12.2	M00003868B:D12	16621
259	1/28/98	259	RTA00000197AF.j.4.1	M00001492D:A11	17209
260	1/28/98	260	RTA00000198R.m.17.1	M00001679D:F06	77992
261	1/28/98	261	RTA00000192AF.a.24.1	M00004114C:F11	13183
262	1/28/98	262	RTA00000186AF.c.17.1	M00001619D:G05	8551
263	1/28/98	263	RTA00000190AF.n.6.1	M00003965A:B11	0
264	1/28/98	264	RTA00000179AF.k.3.3	M00001401A:H07	0
265	1/28/98	265	RTA00000177AF.e.14.1	M00001343D:H07	23255
266	1/28/98	266	RTA00000199F.f.21.2	M00003847C:E09	13344
267	1/28/98	267	RTA00000186AF.g.11.2	M00001630B:H09	5214
268	1/28/98	268	RTA00000186AF.h.01.2	M00001632A:F12	0
269	1/28/98	269	RTA00000183AF.k.13.1	M00001534B:C12	0
270	1/28/98	270	RTA00000178R.l.08.1	M00001383A:C03	39648
271	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
272	1/28/98	272	RTA00000199F.g.08.2	M00003853D:G08	0
273	1/28/98	273	RTA00000201F.c.08.1	M00004353C:H07	0
274	1/28/98	274	RTA00000191AF.o.17.1	M00004102A:H02	5957
275	1/28/98	275	RTA00000191AF.o.17.2	M00004102A:H02	5957
276	1/28/98	276	RTA00000198AF.j.15.1	M00001653B:E09	4369
277	1/28/98	277	RTA00000198AR.i.08.1	M00001639A:F10	9807
278	1/28/98	278	RTA00000198AF.p.16.1	M00003768A:E02	71877
279	1/28/98	279	RTA00000196AF.h.24.1	M00001386A:D11	7308
280	1/28/98	280	RTA00000193AF.b.18.1	M00004233C:H09	7542
281	1/28/98	281	RTA00000188AF.n.10.1	M00003802D:B11	10283
282	1/28/98	282	RTA00000193AF.c.15.1	M00004248B:E08	3726
283	1/28/98	283	RTA00000177AF.i.8.4	M00001350A:H01	7187
284	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
285	1/28/98	285	RTA00000181AR.j.14.3	M00001453B:E10	5399
286	1/28/98	286	RTA00000181AR.k.2.3	M00001453C:A11	0
287	1/28/98	287	RTA00000200AF.b.07.1	M00004039C:C01	17125
288	1/28/98	288	RTA00000181AR.i.06.3	M00001452A:C07	19119
289	1/28/98	289	RTA00000196F.k.07.1	M00001399C:D09	22443
290	1/28/98	290	RTA00000201F.f.10.1	M00004498D:D05	5231
291	1/28/98	291	RTA00000200AF.e.16.1	M00004101C:G08	12068
292	1/28/98	292	RTA00000199AF.m.18.1	M00003939C:F04	0
293	1/28/98	293	RTA00000197AF.e.13.1	M00001454C:F02	662
294	1/28/98	294	RTA00000198AF.k.23.1	M00001661B:C08	8995
295	1/28/98	295	RTA00000181AR.i.19.2	M00001452C:B06	16970
296	1/28/98	296	RTA00000196AF.f.20.1	M00001371D:G01	22774

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
297	1/28/98	297	RTA00000178AF.f.9.3	M00001371C:E09	7172
298	1/28/98	298	RTA00000197AR.e.11.1	M00001454B:G03	2306
299	1/28/98	299	RTA00000196AF.f.5.1	M00001366D:G02	11937
300	2/24/98	464	RTA00000195AF.c.12.1	M00003818B:G12	37582
300	1/28/98	300	RTA00000195AF.c.12.1	M00003818B:G12	37582
301	1/28/98	301	RTA00000181AR.i.19.3	M00001452C:B06	16970
302	1/28/98	302	RTA00000186AF.d.1.2	M00001621C:C08	40044
303	1/28/98	303	RTA00000186AR.e.03.3	M00001623D:C10	22110
304	1/28/98	304	RTA00000182AR.c.5.1	M00001464D:F06	6397
305	1/28/98	305	RTA00000200AF.b.15.1	M00004040D:F01	10627
306	1/28/98	306	RTA00000199AF.p.12.1	M00003989A:H11	12578
307	1/28/98	307	RTA00000200F.n.05.2	M00004246C:A09	18989
308	1/28/98	308	RTA00000178AF.j.20.1	M00001380C:E05	15066
309	1/28/98	309	RTA00000198AF.h.12.1	M00001632C:A02	9503
310	1/28/98	310	RTA00000188AF.m.08.1	M00003798D:H08	22155
311	1/28/98	311	RTA00000191AR.j.4.2	M00004071D:A10	5198
312	1/28/98	312	RTA00000193AF.h.2.1	M00004290A:B03	3273
313	1/28/98	313	RTA00000183AF.o.11.1	M00001540D:D02	0
314	1/28/98	314	RTA00000182AF.o.5.1	M00001493B:D09	5007
315	1/28/98	315	RTA00000199R.d.23.1	M00003815D:H09	37477
316	1/28/98	316	RTA00000198AF.h.24.1	M00001636C:C01	8390
317	1/28/98	317	RTA00000198AF.p.09.1	M00003761D:E02	10473
318	1/28/98	318	RTA00000200AF.g.17.1	M00004138A:H09	0
319	1/28/98	319	RTA00000200F.n.05.1	M00004246C:A09	18989
320	1/28/98	320	RTA00000196AF.m.13.1	M00001415B:E09	16290
321	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
322	1/28/98	322	RTA00000184AR.b.21.1	M00001546B:B02	39788
323	1/28/98	323	RTA00000182AF.m.21.1	M00001490C:C12	18699
324	1/28/98	324	RTA00000184F.j.06.1	M00001556B:G02	11294
325	1/28/98	325	RTA00000182AF.d.18.4	M00001467D:H05	37435
326	1/28/98	326	RTA00000197AR.e.19.1	M00001455D:A09	8047
327	1/28/98	327	RTA00000182AF.i.1.3	M00001479B:A01	7033
328	1/28/98	328	RTA00000200AF.g.09.1	M00004131B:H09	22785
329	1/28/98	329	RTA00000186AF.b.9.1	M00001616C:F07	0
330	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
331	1/28/98	331	RTA00000197AR.c.20.1	M00001449D:A06	16282
332	1/28/98	332	RTA00000193AR.n.04.3	M00004375C:D01	9850
333	1/28/98	333	RTA00000196F.k.15.1	M00001400A:F06	8320
334	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
335	1/28/98	335	RTA00000182AF.e.3.2	M00001468B:H06	0
336	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
337	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
338	1/28/98	338	RTA00000184AF.i.1.1	M00001554B:C07	0
339	1/28/98	339	RTA00000193AF.d.1.1	M00004250D:D10	0
340	1/28/98	340	RTA00000185AF.n.8.1	M00001608B:A03	0
341	1/28/98	341	RTA00000181AF.l.06.2	M00001454C:C08	0
342	1/28/98	342	RTA00000196AF.d.10.1	M00001354C:B06	22256
343	1/28/98	343	RTA00000201F.a.18.1	M00004314B:G07	16837
344	1/28/98	344	RTA00000198AF.o.02.1	M00003748A:B07	68756
345	1/28/98	345	RTA00000187AF.h.21.1	M00001679A:F01	39171

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
346	1/28/98	346	RTA00000197AR.k.22.1	M00001505C:H01	11394
347	1/28/98	347	RTA00000199F.b.03.2	M00003779B:E12	38340
348	1/28/98	348	RTA00000200F.n.07.2	M00004247C:C12	8663
349	1/28/98	349	RTA00000191AF.j.15.1	M00004073B:B01	6308
350	1/28/98	350	RTA00000193AR.c.7.2	M00004241D:F11	9850
351	1/28/98	351	RTA00000179AF.c.22.1	M00001393B:B09	22515
352	1/28/98	352	RTA00000197AF.p.3.1	M00001550A:A03	7239
353	1/28/98	353	RTA00000198F.a.9.1	M00001557D:C08	0
354	1/28/98	354	RTA00000198R.k.03.1	M00001655A:F06	22765
355	1/28/98	355	RTA00000184AR.b.24.1	M00001546B:C05	5777
356	1/28/98	356	RTA00000180AF.l.12.2	M00001433B:H11	0
357	1/28/98	357	RTA00000184AF.o.15.1	M00001564D:C09	0
358	1/28/98	358	RTA00000198AF.g.7.1	M00001616C:C09	13386
359	1/28/98	359	RTA00000196AF.b.17.1	M00001348A:D04	12193
360	1/28/98	360	RTA00000198F.i.5.1	M00001638A:D10	39989
361	1/28/98	361	RTA00000177AR.g.16.4	M00001347A:B10	13576
362	1/28/98	362	RTA00000197AR.c.24.1	M00001450A:B12	82498
363	1/28/98	363	RTA00000196AF.e.14.1	M00001362C:A10	12850
364	1/28/98	364	RTA00000187AF.g.13.1	M00001676C:C11	2991
365	1/28/98	365	RTA00000196F.l.20.2	M00001410B:G05	22678
366	1/28/98	366	RTA00000192AF.o.19.1	M00004208D:H08	3549
367	1/28/98	367	RTA00000196F.i.24.1	M00001392C:D10	4233
368	1/28/98	368	RTA00000198AF.k.18.1	M00001660A:C12	17432
369	1/28/98	369	RTA00000196F.m.3.1	M00001413A:F02	10453
370	1/28/98	370	RTA00000179AF.c.15.3	M00001392D:H06	2995
371	1/28/98	371	RTA00000197F.e.7.1	M00001453D:G12	86969
372	1/28/98	372	RTA00000186AF.d.23.1	M00001623B:G07	22187
373	1/28/98	373	RTA00000196F.e.12.1	M00001361C:H11	10147
374	1/28/98	374	RTA00000178AF.l.11.1	M00001383A:G04	23286
375	1/28/98	375	RTA00000177AF.m.18.1	M00001355B:G11	0
376	1/28/98	376	RTA00000177AF.m.18.3	M00001355B:G11	0
377	1/28/98	377	RTA00000178AF.m.19.1	M00001384D:H07	0
378	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
379	1/28/98	379	RTA00000180AF.l.06.2	M00001433A:G07	5625
380	1/28/98	380	RTA00000182AF.k.24.1	M00001485D:B10	5625
381	1/28/98	381	RTA00000199AF.m.14.1	M00003938A:B04	10580
382	1/28/98	382	RTA00000200AF.j.6.1	M00004176B:E08	22902
383	1/28/98	383	RTA00000199F.f.20.2	M00003847B:G03	0
384	1/28/98	384	RTA00000196AF.h.17.1	M00001384C:F12	39215
385	1/28/98	385	RTA00000201F.c.24.1	M00004374D:E10	35731
386	1/28/98	386	RTA00000197AR.j.04.1	M00001492D:A11	17209
387	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
387	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
388	1/28/98	388	RTA00000185AF.n.17.1	M00001609B:A11	5336
389	1/28/98	389	RTA00000181AR.k.2.2	M00001453C:A11	0
390	1/28/98	390	RTA00000197AR.f.07.1	M00001457C:C11	19261
391	1/28/98	391	RTA00000179AF.e.20.3	M00001396A:C03	4009
392	1/28/98	392	RTA00000185AF.b.11.2	M00001573C:D03	9024
393	1/28/98	393	RTA00000188AF.b.14.1	M00003754D:D02	0
394	1/28/98	394	RTA00000198AF.p.22.1	M00003771A:G10	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
395	1/28/98	395	RTA00000196R.c.21.2	M00001352C:H10	0
396	1/28/98	396	RTA00000179AR.b.02.3	M00001391B:G12	0
397	1/28/98	397	RTA00000198AF.b.22.1	M00001571B:E03	38956
398	1/28/98	398	RTA00000177AR.l.13.3	M00001353A:G12	8078
399	1/28/98	399	RTA00000186AF.m.15.2	M00001649C:B10	40122
400	1/28/98	400	RTA00000186AR.e.07.3	M00001623D:G03	4175
401	1/28/98	401	RTA00000195F.e.04.1	M00004465B:D04	6731
402	1/28/98	402	RTA00000177AF.b.21.4	M00001341A:F12	4443
403	1/28/98	403	RTA00000184AF.f.13.1	M00001550D:H02	3784
404	1/28/98	404	RTA00000195AF.b.6.1	M00001496C:G10	39490
405	1/28/98	405	RTA00000197AF.b.24.1	M00001446C:D09	23171
406	1/28/98	406	RTA00000199F.f.09.2	M00003842B:D09	22907
407	1/28/98	407	RTA00000178AF.e.20.1	M00001370D:E12	3135
408	1/28/98	408	RTA00000183AR.l.15.1	M00001535C:E01	39383
409	1/28/98	409	RTA00000180AF.d.1.3	M00001418D:B06	8526
410	1/28/98	410	RTA00000201F.a.20.1	M00004316A:G09	22639
411	1/28/98	411	RTA00000179AF.j.13.3	M00001400B:H06	0
412	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0
412	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
413	1/28/98	413	RTA00000200F.a.12.1	M00004031D:B05	16751
414	1/28/98	414	RTA00000185AR.b.15.1	M00001573D:F04	39813
415	1/28/98	415	RTA00000200AF.f.09.1	M00004111C:E11	12863
416	1/28/98	416	RTA00000199F.a.5.1	M00003773B:G01	22134
417	1/28/98	417	RTA00000200R.d.16.1	M00004085A:B02	39875
418	1/28/98	418	RTA00000187AR.k.01.1	M00001679D:B05	78356
419	1/28/98	419	RTA00000182AF.j.20.1	M00001483B:D03	4769
420	1/28/98	420	RTA00000181AF.c.11.1	M00001445D:A06	4769
421	1/28/98	421	RTA00000200AF.i.21.1	M00004167D:A07	5316
422	1/28/98	422	RTA00000189AF.b.12.1	M00003829B:G03	17233
423	1/28/98	423	RTA00000188AR.b.17.1	M00003755A:B03	10662
424	1/28/98	424	RTA00000187AR.j.24.1	M00001679D:B05	78356
425	1/28/98	425	RTA00000200AF.c.16.1	M00004064D:A11	23433
426	1/28/98	426	RTA00000199AF.o.19.1	M00003980D:E09	36927
427	1/28/98	427	RTA00000187AR.d.9.2	M00001664D:G07	5483
428	1/28/98	428	RTA00000185AF.b.15.2	M00001573D:F04	39813
429	1/28/98	429	RTA00000196F.i.19.1	M00001390C:C11	39498
430	1/28/98	430	RTA00000198R.k.23.1	M00001661B:C08	8995
431	1/28/98	431	RTA00000199AF.k.15.1	M00003905C:G10	8275
432	1/28/98	432	RTA00000198AF.o.05.1	M00003750A:D01	26702
433	1/28/98	433	RTA00000198R.j.18.1	M00001653B:G07	22759
434	1/28/98	434	RTA00000187AR.d.2.2	M00001664C:H10	4892
435	1/28/98	435	RTA00000182AR.c.22.1	M00001467A:D08	16283
436	1/28/98	436	RTA00000200AF.k.11.1	M00004197C:F03	9796
437	1/28/98	437	RTA00000198R.a.23.1	M00001563B:D11	10700
438	1/28/98	438	RTA00000180AR.g.03.4	M00001425A:C11	9024
439	1/28/98	439	RTA00000185AF.d.14.2	M00001579D:G07	8071
440	1/28/98	440	RTA00000177AR.f.13.4	M00001345A:G11	10480
441	1/28/98	441	RTA00000185AF.e.6.1	M00001583B:E10	0
442	1/28/98	442	RTA00000191AF.l.9.1	M00004081C:H06	0
443	1/28/98	443	RTA00000197AR.i.17.1	M00001490A:E11	3516

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
444	1/28/98	444	RTA00000189AF.l.16.1	M00003879A:G05	0
445	1/28/98	445	RTA00000196AF.n.13.1	M00001422C:F12	8396
446	1/28/98	446	RTA00000182AF.a.23.3	M00001463A:F06	9755
447	1/28/98	447	RTA00000198AF.d.8.1	M00001587A:H03	0
448	1/28/98	448	RTA00000200AF.j.9.1	M00004177C:A01	8608
449	1/28/98	449	RTA00000181AF.m.22.3	M00001455D:F09	9283
450	1/28/98	450	RTA00000181AF.m.21.3	M00001455D:F09	9283
451	1/28/98	451	RTA00000200AF.b.20.1	M00004043A:D02	40403
452	1/28/98	452	RTA00000199F.d.19.2	M00003813D:H12	6707
453	1/28/98	453	RTA00000199AF.i.20.1	M00003881A:D09	9544
454	1/28/98	454	RTA00000200R.d.04.1	M00004078A:A06	5506
455	1/28/98	455	RTA00000198AF.d.12.1	M00001589A:C01	21142
456	1/28/98	456	RTA00000200AF.b.12.1	M00004040B:F10	22053
457	1/28/98	457	RTA00000191AR.l.7.2	M00004081C:D12	14391
458	1/28/98	458	RTA00000199R.d.16.1	M00003812C:A05	24191
459	1/28/98	459	RTA00000179AF.c.22.3	M00001393B:B09	22515
460	1/28/98	460	RTA00000179AF.c.15.1	M00001392D:H06	2995
461	1/28/98	461	RTA00000190AF.e.13.1	M00003908A:H09	38961
462	1/28/98	462	RTA00000196AF.n.17.1	M00001423D:A09	12477
463	1/28/98	463	RTA00000177AR.k.23.4	M00001352D:D02	35550
464	1/28/98	464	RTA00000199AF.l.14.1	M00003917A:D02	22865
465	1/28/98	465	RTA00000187AF.k.20.1	M00001680B:C01	3648
466	1/28/98	466	RTA00000177AF.p.20.1	M00001361A:A05	4141
467	1/28/98	467	RTA00000195AF.b.19.1	M00001589A:D12	77678
468	1/28/98	468	RTA00000198AF.a.18.1	M00001561C:E11	0
469	1/28/98	469	RTA00000190AF.n.2.1	M00003963A:E03	5650
470	1/28/98	470	RTA00000198AF.f.16.1	M00001614A:E06	0
471	1/28/98	471	RTA00000188AF.e.2.1	M00003763B:H01	0
472	1/28/98	472	RTA00000192AF.p.17.1	M00004214C:H05	11451
473	1/28/98	473	RTA00000196F.i.3.1	M00001387A:E10	0
474	1/28/98	474	RTA00000192AR.d.1.3	M00004130D:H01	14507
475	1/28/98	475	RTA00000187AR.m.3.3	M00001682C:B12	17055
476	1/28/98	476	RTA00000200R.g.15.1	M00004135B:G01	22898
477	1/28/98	477	RTA00000180AR.e.22.2	M00001423A:G05	7714
478	1/28/98	478	RTA00000192AR.o.24.2	M00004210B:B05	7191
479	1/28/98	479	RTA00000197R.l.22.1	M00001528A:C11	6962
480	1/28/98	480	RTA00000181AF.o.08.2	M00001457C:H12	849
481	1/28/98	481	RTA00000179AR.l.22.2	M00001405B:E09	4314
482	1/28/98	482	RTA00000187AF.j.7.1	M00001679C:F01	78091
483	1/28/98	483	RTA00000192AF.h.19.1	M00004162C:A07	4642
484	1/28/98	484	RTA00000199F.g.20.2	M00003860D:A01	15767
485	1/28/98	485	RTA00000196AF.c.14.1	M00001352B:F04	23105
486	1/28/98	486	RTA00000190AR.p.22.2	M00003979A:E11	16368
487	1/28/98	487	RTA00000198F.i.8.1	M00001639A:F10	9807
488	1/28/98	488	RTA00000179AR.l.22.4	M00001405B:E09	4314
489	1/28/98	489	RTA00000186AF.h.22.1	M00001634B:C10	16485
490	1/28/98	490	RTA00000198AF.n.05.1	M00001687A:G01	24157
491	1/28/98	491	RTA00000196F.k.11.1	M00001399C:H12	3
492	1/28/98	492	RTA00000198AF.b.8.1	M00001567C:H12	22636
493	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
494	1/28/98	494	RTA00000200AF.k.1.1	M00004188C:A09	40049
495	1/28/98	495	RTA00000185AF.j.21.1	M00001597A:E12	0
496	1/28/98	496	RTA00000190AF.p.3.1	M00003975B:F03	2378
497	1/28/98	497	RTA00000198AF.o.09.1	M00003751B:A05	4310
498	1/28/98	498	RTA00000190AF.h.12.1	M00003917C:D03	12977
499	1/28/98	499	RTA00000199F.b.22.2	M00003791C:E09	17018
500	1/28/98	500	RTA00000179AR.m.07.5	M00001405D:D11	0
501	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
502	1/28/98	502	RTA00000197AF.o.23.1	M00001549A:A09	12682
503	1/28/98	503	RTA00000197AF.k.9.1	M00001500C:C08	3138
504	1/28/98	504	RTA00000198AF.g.2.1	M00001615C:D02	16640
505	1/28/98	505	RTA00000188AF.n.03.1	M00003801B:B10	9443
506	1/28/98	506	RTA00000198R.o.09.1	M00003751B:A05	4310
507	1/28/98	507	RTA00000198AF.c.5.1	M00001573D:F10	53802
508	1/28/98	508	RTA00000187AF.i.14.2	M00001679B:H07	19406
509	1/28/98	509	RTA00000183AF.p.17.1	M00001543A:H12	5158
510	1/28/98	510	RTA00000178AF.n.23.1	M00001387B:E02	3298
511	1/28/98	511	RTA00000196AF.g.10.1	M00001376B:A02	12498
512	1/28/98	512	RTA00000191AF.c.3.1	M00003987D:D06	3549
513	1/28/98	513	RTA00000197AF.h.14.1	M00001477B:F04	7045
514	1/28/98	514	RTA00000196AF.n.02.1	M00001417D:A04	39260
515	1/28/98	515	RTA00000196AF.f.18.1	M00001370D:A12	14506
516	1/28/98	516	RTA00000200AF.e.23.1	M00004107B:A06	14686
517	1/28/98	517	RTA00000184AF.e.14.1	M00001549C:D02	16347
518	1/28/98	518	RTA00000199AF.n.22.1	M00003971A:A06	23064
519	1/28/98	519	RTA00000183AF.a.24.2	M00001499B:A11	10539
520	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
520	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
521	1/28/98	521	RTA00000197AF.p.12.1	M00001552B:G05	0
522	1/28/98	522	RTA00000178AR.h.17.2	M00001376A:C05	23824
523	1/28/98	523	RTA00000198AF.d.4.1	M00001586D:E02	22435
524	1/28/98	524	RTA00000191AF.j.24.1	M00004076B:G03	0
525	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
526	1/28/98	526	RTA00000185AF.e.20.1	M00001585A:D06	5865
527	1/28/98	527	RTA00000198R.m.23.1	M00001684B:G03	38469
528	1/28/98	528	RTA00000200F.n.09.2	M00004249D:B08	12391
529	1/28/98	529	RTA00000178AF.b.13.1	M00001364A:E11	3114
530	1/28/98	530	RTA00000185AF.d.24.2	M00001582D:F05	0
531	1/28/98	531	RTA00000195F.a.3.1	M00001368A:A03	27179
532	1/28/98	532	RTA00000177AF.o.4.1	M00001358C:C06	0
533	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
534	1/28/98	534	RTA00000201AF.e.01.1	M00004405D:C04	11397
535	1/28/98	535	RTA00000196AF.n.19.1	M00001423D:D12	6881
536	1/28/98	536	RTA00000193AR.a.2.3	M00004216D:D03	0
537	1/28/98	537	RTA00000188AF.g.14.1	M00003774C:D02	0
538	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
539	1/28/98	539	RTA00000197AR.b.13.1	M00001445B:E04	9560
540	1/28/98	540	RTA00000179AF.b.10.3	M00001391D:D10	0
541	1/28/98	541	RTA00000197AR.b.16.1	M00001445C:A08	0
542	1/28/98	542	RTA00000198R.p.12.1	M00003763D:E10	8878

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
543	1/28/98	543	RTA00000200AF.i.19.1	M00004167A:H03	14722
544	1/28/98	544	RTA00000196F.j.13.1	M00001396D:B03	23170
545	1/28/98	545	RTA00000196F.a.2.1	M00001338B:E02	3575
546	1/28/98	546	RTA00000197F.i.6.1	M00001487C:D06	12149
547	1/28/98	547	RTA00000196AF.g.8.1	M00001375B:G12	39665
548	1/28/98	548	RTA00000179AF.f.23.3	M00001397B:G03	35258
549	1/28/98	549	RTA00000198AF.c.16.1	M00001579C:B11	26801
550	1/28/98	550	RTA00000183AF.g.14.1	M00001513D:A03	0
551	1/28/98	551	RTA00000200AR.c.24.1	M00004076D:D04	15972
552	1/28/98	552	RTA00000193AF.b.24.1	M00004237D:D08	35
553	1/28/98	553	RTA00000201F.b.22.1	M00004344B:H04	35728
554	1/28/98	554	RTA00000186AR.e.07.4	M00001623D:G03	4175
555	1/28/98	555	RTA00000198AF.j.08.1	M00001651B:A11	10983
556	1/28/98	556	RTA00000199F.f.17.2	M00003845D:B04	22905
557	1/28/98	557	RTA00000198AF.d.9.1	M00001587D:A10	8841
558	1/28/98	558	RTA00000186AR.h.14.1	M00001632D:H07	0
559	1/28/98	559	RTA00000197AF.p.20.1	M00001554B:B07	22795
560	1/28/98	560	RTA00000184AF.i.23.3	M00001556A:F11	1577
561	1/28/98	561	RTA00000185AR.d.10.1	M00001579C:H10	0
562	1/28/98	562	RTA00000196F.j.12.1	M00001396A:H03	19294
563	1/28/98	563	RTA00000192AR.o.16.2	M00004208B:F05	9061
564	1/28/98	564	RTA00000200AF.g.18.1	M00004138B:B11	1600
565	1/28/98	565	RTA00000191AF.c.10.1	M00003989B:F11	40422
566	1/28/98	566	RTA00000195F.a.4.1	M00001372C:G12	20470
567	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
568	1/28/98	568	RTA00000196AF.p.01.2	M00001430A:A02	87143
569	1/28/98	569	RTA00000196AF.l.23.1	M00001412A:E04	12052
570	1/28/98	570	RTA00000183AF.a.19.2	M00001499A:A05	3788
571	1/28/98	571	RTA00000198AF.b.14.1	M00001569C:B06	801
572	1/28/98	572	RTA00000181AF.l.16.2	M00001454D:E05	13532
573	1/28/98	573	RTA00000196AF.b.7.1	M00001344A:G07	7774
574	1/28/98	574	RTA00000192AF.f.3.1	M00004146C:C11	5257
575	1/28/98	575	RTA00000186AF.l.12.2	M00001645A:C12	19267
576	1/28/98	576	RTA00000196AF.c.7.1	M00001350B:G11	0
577	1/28/98	577	RTA00000190AF.a.24.2	M00003901B:A05	0
578	1/28/98	578	RTA00000180AF.g.17.1	M00001426A:A09	16653
579	1/28/98	579	RTA00000200F.i.7.1	M00004157D:B03	22322
580	1/28/98	580	RTA00000197F.a.12.1	M00001438B:B09	7895
581	1/28/98	581	RTA00000191AF.p.3.2	M00004104B:F11	17
582	1/28/98	582	RTA00000178AR.d.12.4	M00001368A:D07	2476
583	1/28/98	583	RTA00000190AR.h.12.2	M00003917C:D03	12977
584	1/28/98	584	RTA00000190AR.c.03.1	M00003904C:A08	0
585	1/28/98	585	RTA00000198AF.n.18.1	M00001771A:A07	16715
586	1/28/98	586	RTA00000199R.o.11.1	M00003976C:A10	23172
587	1/28/98	587	RTA00000199F.a.3.1	M00003772D:E10	16617
588	1/28/98	588	RTA00000191AF.b.4.1	M00003983C:F03	14936
589	1/28/98	589	RTA00000192AF.l.1.1	M00004183C:D07	16392
590	1/28/98	590	RTA00000190AF.d.2.1	M00003906B:F12	2444
591	1/28/98	591	RTA00000197AF.h.1.1	M00001470A:H01	13075
592	1/28/98	592	RTA00000186AF.e.18.1	M00001624C:A06	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
593	1/28/98	593	RTA00000196R.c.14.2	M00001352B:F04	23105
594	1/28/98	594	RTA00000181AR.e.04.3	M00001448A:G09	11825
595	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
595	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
596	1/28/98	596	RTA00000184AF.d.9.1	M00001548A:B11	6515
597	1/28/98	597	RTA00000198F.a.4.1	M00001557A:F01	9635
598	1/28/98	598	RTA00000197F.e.10.1	M00001454B:D08	13154
599	1/28/98	599	RTA00000179AF.o.5.1	M00001408D:D04	6172
600	1/28/98	600	RTA00000177AF.g.4.1	M00001346B:B07	4119
601	1/28/98	601	RTA00000184AF.i.10.2	M00001555A:B01	3744
602	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
602	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
603	1/28/98	603	RTA00000183AR.d.11.3	M00001504D:G06	6420
604	1/28/98	604	RTA00000200AF.j.15.1	M00004185D:E04	5849
605	1/28/98	605	RTA00000196F.e.9.1	M00001361A:H07	23300
606	1/28/98	606	RTA00000179AR.e.01.4	M00001395A:C09	2493
607	1/28/98	607	RTA00000200AF.k.12.1	M00004198B:D02	7359
608	1/28/98	608	RTA00000192AF.p.8.1	M00004212B:C07	2379
609	1/28/98	609	RTA00000196AF.n.05.1	M00001418B:F07	12531
610	1/28/98	610	RTA00000200AF.k.2.1	M00004188D:G08	35924
611	1/28/98	611	RTA00000196F.l.13.2	M00001408A:H04	0
612	1/28/98	612	RTA00000197AR.e.22.1	M00001456A:H02	78758
613	1/28/98	613	RTA00000177AF.k.18.4	M00001352C:A05	53729
614	1/28/98	614	RTA00000201F.f.03.1	M00004493B:D09	22633
615	1/28/98	615	RTA00000197R.p.20.1	M00001554B:B07	22795
616	1/28/98	616	RTA00000188AF.m.07.1	M00003798D:E03	23183
617	1/28/98	617	RTA00000179AF.d.13.3	M00001394A:F01	6583
618	1/28/98	618	RTA00000192AF.a.14.1	M00004111D:A08	6874
619	1/28/98	619	RTA00000201F.g.08.1	M00004692A:E07	0
620	1/28/98	620	RTA00000201R.g.08.1	M00004692A:E07	0
621	1/28/98	621	RTA00000201R.g.08.2	M00004692A:E07	0
622	1/28/98	622	RTA00000186AR.m.14.2	M00001649B:G12	9800
623	1/28/98	623	RTA00000198R.b.24.1	M00001571D:B11	19047
624	1/28/98	624	RTA00000200F.o.15.1	M00004275A:B03	7866
625	1/28/98	625	RTA00000196AF.c.19.1	M00001352C:G09	5935
626	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
627	1/28/98	627	RTA00000199F.h.15.2	M00003870A:C05	22269
628	1/28/98	628	RTA00000198AF.g.16.1	M00001621D:D03	6602
629	1/28/98	629	RTA00000199R.m.23.1	M00003945A:E09	40166
630	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
631	1/28/98	631	RTA00000200AF.h.19.2	M00004151D:E03	0
632	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
633	1/28/98	633	RTA00000197F.i.8.1	M00001488A:E01	6292
634	1/28/98	634	RTA00000192AF.j.6.1	M00004172C:D08	11494
635	1/28/98	635	RTA00000181AF.p.7.3	M00001460A:E01	38773
636	1/28/98	636	RTA00000196F.k.20.1	M00001402B:F12	6324
637	1/28/98	637	RTA00000200AF.g.15.1	M00004135B:G01	22898
638	1/28/98	638	RTA00000193AF.l.05.2	M00004348A:A02	2815
639	1/28/98	639	RTA00000199AF.j.1.1	M00003881C:G09	6006
640	1/28/98	640	RTA00000190AF.f.5.1	M00003909A:H04	5015

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
641	1/28/98	641	RTA00000198F.a.10.1	M00001558A:E11	6695
642	1/28/98	642	RTA00000189AF.i.14.1	M00003868B:G11	0
643	1/28/98	643	RTA00000184AF.c.9.1	M00001546C:G10	16245
644	1/28/98	644	RTA00000197F.i.12.1	M00001489B:A06	3605
645	1/28/98	645	RTA00000177AF.k.9.1	M00001352A:E02	16245
646	1/28/98	646	RTA00000186AF.d.24.1	M00001623C:H07	3114
647	1/28/98	647	RTA00000197F.m.11.1	M00001530B:D10	16488
648	1/28/98	648	RTA00000199F.i.9.1	M00003878C:E04	7
649	1/28/98	649	RTA00000190AR.l.19.2	M00003946A:H10	88204
650	1/28/98	650	RTA00000183AR.n.17.1	M00001539B:H06	9800
651	1/28/98	651	RTA00000189AR.d.22.2	M00003844C:B11	6539
652	1/28/98	652	RTA00000178AR.m.21.4	M00001385A:F12	7861
653	1/28/98	653	RTA00000178AR.m.21.5	M00001385A:F12	7861
654	1/28/98	654	RTA00000186AF.j.21.2	M00001639D:B07	22506
655	1/28/98	655	RTA00000186AF.g.8.2	M00001630B:A11	8065
656	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
657	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
658	1/28/98	658	RTA00000193AF.a.1.1	M00004216D:C03	16501
659	1/28/98	659	RTA00000185AR.k.23.2	M00001601A:E09	0
660	1/28/98	660	RTA00000197AF.p.16.1	M00001552D:G08	6013
661	1/28/98	661	RTA00000198R.b.04.1	M00001565A:H09	0
662	1/28/98	662	RTA00000201R.a.15.1	M00004312B:H07	57347
663	1/28/98	663	RTA00000199F.g.21.2	M00003861C:H02	34826
664	1/28/98	664	RTA00000195R.a.23.1	M00001449C:H12	86432
665	1/28/98	665	RTA00000197AF.l.22.1	M00001528A:C11	6962
666	1/28/98	666	RTA00000198F.i.10.1	M00001640B:F03	12792
667	1/28/98	667	RTA00000197AF.d.16.1	M00001452A:E07	23505
668	1/28/98	668	RTA00000178AF.i.17.1	M00001377C:E12	0
669	1/28/98	669	RTA00000192AF.c.2.1	M00004121B:G01	0
670	1/28/98	670	RTA00000186AF.p.17.3	M00001656B:A07	38383
671	1/28/98	671	RTA00000185AR.d.08.1	M00001579C:E09	6562
672	1/28/98	672	RTA00000196AF.h.09.1	M00001382B:F12	8015
673	1/28/98	673	RTA00000199F.m.3.1	M00003931B:A11	0
674	1/28/98	674	RTA00000197AR.e.24.1	M00001456B:F10	39250
675	1/28/98	675	RTA00000179AR.b.21.3	M00001392C:D05	4366
676	1/28/98	676	RTA00000197AR.m.14.1	M00001531B:E09	14879
677	1/28/98	677	RTA00000197AF.i.19.1	M00001490B:H11	39554
678	1/28/98	678	RTA00000190AF.j.3.1	M00003922A:D02	2705
679	1/28/98	679	RTA00000197AF.d.11.1	M00001451C:E01	27260
680	1/28/98	680	RTA00000177AF.f.10.1	M00001345A:E01	6420
681	1/28/98	681	RTA00000180AF.l.04.2	M00001432D:F05	11159
682	1/28/98	682	RTA00000125A.j.16.1	M00001544A:E06	0
683	1/28/98	683	RTA00000187AR.j.01.1	M00001679C:D01	79028
684	1/28/98	684	RTA00000200AR.b.11.1	M00004040A:G12	12043
685	1/28/98	685	RTA00000200F.i.9.1	M00004159C:F09	36756
686	1/28/98	686	RTA00000201F.f.07.1	M00004497A:H03	51116
687	1/28/98	687	RTA00000197AF.g.4.1	M00001464B:B03	8821
688	1/28/98	688	RTA00000193AF.g.3.1	M00004050D:A06	5567
689	1/28/98	689	RTA00000197AF.o.4.1	M00001542B:C06	4121
690	1/28/98	690	RTA00000198R.l.21.1	M00001673A:A04	19194

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
691	1/28/98	691	RTA00000195F.a.10.1	M00001401C:H03	6803
692	1/28/98	692	RTA00000199F.e.4.1	M00003820B:C05	0
693	1/28/98	693	RTA00000198F.m.12.1	M00001679C:D05	4
694	1/28/98	694	RTA00000201R.c.19.1	M00004370A:G05	22357
695	1/28/98	695	RTA00000197F.m.5.1	M00001528C:H04	10872
696	1/28/98	696	RTA00000180AR.d.16.3	M00001419D:C10	11393
697	1/28/98	697	RTA00000193AF.e.21.1	M00004271B:B06	0
698	1/28/98	698	RTA00000179AF.g.1.3	M00001397C:A10	7588
699	1/28/98	699	RTA00000178AF.a.12.1	M00001362B:H06	0
700	1/28/98	700	RTA00000183AF.i.18.2	M00001529D:H02	40129
701	1/28/98	701	RTA00000199AF.o.10.1	M00003974C:E04	0
702	1/28/98	702	RTA00000177AR.b.8.5	M00001340B:A06	17062
703	1/28/98	703	RTA00000198F.l.09.1	M00001664B:D06	3611
704	1/28/98	704	RTA00000190AF.o.12.1	M00003972D:C09	3438
705	1/28/98	705	RTA00000196F.i.5.1	M00001387B:A06	0
706	1/28/98	706	RTA00000177AF.i.6.4	M00001350A:B08	0
707	1/28/98	707	RTA00000179AF.p.15.1	M00001411D:F05	5622
708	1/28/98	708	RTA00000201F.f.06.1	M00004496C:H03	23771
709	1/28/98	709	RTA00000192AF.d.18.1	M00004135D:G02	0
710	1/28/98	710	RTA00000196AF.l.3.1	M00001405B:D07	20864
711	1/28/98	711	RTA00000198F.i.2.1	M00001637B:E07	8076
712	1/28/98	712	RTA00000201F.b.21.1	M00004341B:G03	9071
713	1/28/98	713	RTA00000198AF.g.21.1	M00001624A:F09	6273
714	1/28/98	714	RTA00000199R.g.07.1	M00003853D:D03	0
715	1/28/98	715	RTA00000197AR.k.11.1	M00001500D:E10	53758
716	1/28/98	716	RTA00000200F.p.05.1	M00004285C:A08	3984
717	1/28/98	717	RTA00000200F.o.10.2	M00004269B:C08	36432
718	1/28/98	718	RTA00000196F.l.14.2	M00001408B:G06	23144
719	1/28/98	719	RTA00000183AF.b.12.1	M00001500A:B02	0
720	1/28/98	720	RTA00000197AF.f.14.1	M00001459B:C09	3732
721	1/28/98	721	RTA00000180AF.c.4.1	M00001417B:C04	5415
722	1/28/98	722	RTA00000199R.j.24.1	M00003895C:A10	0
723	1/28/98	723	RTA00000183AF.p.24.1	M00001543C:F01	3116
724	1/28/98	724	RTA00000177AR.f.15.4	M00001345B:E10	9062
725	1/28/98	725	RTA00000197AF.b.1.1	M00001441D:E04	12134
726	1/28/98	726	RTA00000200R.f.10.1	M00004111D:B07	4
727	1/28/98	727	RTA00000184AF.n.12.2	M00001561D:C11	3727
728	1/28/98	728	RTA00000177AR.f.17.4	M00001345C:B01	8594
729	1/28/98	729	RTA00000184AF.a.19.1	M00001544C:C06	2628
730	1/28/98	730	RTA00000192AF.o.11.1	M00004205D:F06	0
731	1/28/98	731	RTA00000184F.k.02.1	M00001557B:H10	5192
732	1/28/98	732	RTA00000186AF.p.01.2	M00001654D:G11	40440
733	1/28/98	733	RTA00000200AF.d.20.1	M00004087A:G08	26600
734	1/28/98	734	RTA00000200AF.d.21.1	M00004087C:D03	0
735	1/28/98	735	RTA00000192AF.b.11.1	M00004117A:G01	40014
736	1/28/98	736	RTA00000196AF.o.13.1	M00001428B:A09	0
737	1/28/98	737	RTA00000189AR.m.9.1	M00003880B:C08	2917
738	1/28/98	738	RTA00000183AF.o.8.1	M00001540C:B10	8927
739	1/28/98	739	RTA00000181AF.p.12.3	M00001460C:H02	22204
740	1/28/98	740	RTA00000198AF.d.15.1	M00001590C:H08	5997

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
741	1/28/98	741	RTA00000196AF.n.22.1	M00001424B:H04	9572
742	1/28/98	742	RTA00000177AF.m.1.1	M00001353D:D10	14929
743	1/28/98	743	RTA00000178AF.k.9.1	M00001381B:F06	16342
744	1/28/98	744	RTA00000196F.m.4.1	M00001413A:F03	7958
745	1/28/98	745	RTA00000183AF.m.11.1	M00001536D:G02	8927
746	1/28/98	746	RTA00000178AF.i.01.2	M00001376B:F03	4
747	1/28/98	747	RTA00000190AF.c.6.1	M00003904D:D10	4780
748	1/28/98	748	RTA00000198AF.b.24.1	M00001571D:B11	19047
749	1/28/98	749	RTA00000178AR.i.13.4	M00001377B:H01	0
750	1/28/98	750	RTA00000198AF.a.19.1	M00001561D:C05	0
751	1/28/98	751	RTA00000179AF.c.4.3	M00001392D:B11	0
752	1/28/98	752	RTA00000192AF.o.7.1	M00004204D:C03	5275
753	1/28/98	753	RTA00000192AF.o.17.1	M00004208D:B10	5275
754	1/28/98	754	RTA00000187AF.l.11.1	M00001681A:F03	4482
755	1/28/98	755	RTA00000199F.c.21.2	M00003803C:D09	5070
756	2/24/98	1	RTA00000404F.a.02.1	M00001589B:E12	9738
757	2/24/98	2	RTA00000406F.d.16.1	M00003875C:G02	15040
758	2/24/98	3	RTA00000420F.d.18.1	M00004105C:B05	63074
759	2/24/98	4	RTA00000339F.i.20.1	M00001438D:C06	4356
760	2/24/98	5	RTA00000408F.o.12.2	M00001572A:A10	78578
761	2/24/98	6	RTA00000119A.j.15.1	M00001460A:E11	79623
762	2/24/98	7	RTA00000413F.d.12.1	M00004088C:A12	66467
763	2/24/98	8	RTA00000423F.i.12.1	M00003914D:E03	9118
764	2/24/98	9	RTA00000406F.n.02.1	M00003918C:H10	15051
765	2/24/98	10	RTA00000350R.c.12.1	M00001550D:A04	9728
766	2/24/98	11	RTA00000411F.k.05.1	M00003850D:B05	64777
767	2/24/98	12	RTA00000339F.b.17.1	M00001366D:E12	10020
768	2/24/98	13	RTA00000406F.f.18.1	M00003879B:G02	38587
769	2/24/98	14	RTA00000419F.b.09.1	M00001694C:F12	78128
770	2/24/98	15	RTA00000419F.c.19.1	M00003820A:A08	64346
771	2/24/98	16	RTA00000399F.a.02.1	M00001366D:C12	0
772	2/24/98	17	RTA00000411F.m.15.1	M00003868D:B09	78014
773	2/24/98	18	RTA00000420F.g.12.1	M00004895B:G04	0
774	2/24/98	19	RTA00000123A.k.23.1	M00001533A:G05	80313
775	2/24/98	20	RTA00000404F.m.04.2	M00001641A:A11	22720
776	2/24/98	21	RTA00000411F.g.08.1	M00003822D:D04	45815
777	2/24/98	22	RTA00000130A.m.15.1	M00001622A:H12	81630
778	2/24/98	23	RTA00000411F.k.20.1	M00003854B:A07	64973
779	2/24/98	24	RTA00000423F.l.09.1	M00004118A:H08	9752
780	2/24/98	25	RTA00000418F.k.05.1	M00001637A:A06	73021
781	2/24/98	26	RTA00000423F.h.18.1	M00003876C:D02	37972
782	2/24/98	27	RTA00000420F.n.19.2	M00005259B:C01	0
783	2/24/98	28	RTA00000422F.p.06.2	M00001661A:B11	39282
784	2/24/98	29	RTA00000404F.n.16.2	M00001649C:D05	39095
785	2/24/98	30	RTA00000411F.m.24.1	M00003870B:B08	77568
786	2/24/98	31	RTA00000134A.j.10.1	M00001534A:G06	81383
787	2/24/98	32	RTA00000409F.j.02.1	M00001611B:E06	76417
788	2/24/98	33	RTA00000403F.j.15.1	M00001539B:G07	23840
789	2/24/98	34	RTA00000411F.n.11.1	M00003875A:B01	77276
790	2/24/98	35	RTA00000339F.i.13.1	M00001434A:B10	5970

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
791	2/24/98	36	RTA00000414F.e.22.1	M00005257D:A06	0
792	2/24/98	37	RTA00000406F.o.15.1	M00003988D:A08	37482
793	2/24/98	38	RTA00000412F.g.04.2	M00003971B:B07	64457
794	2/24/98	39	RTA00000187AF.l.7.1	M00001680D:F08	10539
795	2/24/98	40	RTA00000352R.l.06.1	M00004187D:H06	40343
796	2/24/98	41	RTA00000419F.b.12.1	M00003806B:C09	63148
797	2/24/98	42	RTA00000423F.k.17.2	M00004038A:F02	37512
798	2/24/98	43	RTA00000420F.g.04.1	M00004891B:B12	0
799	2/24/98	44	RTA00000418F.k.14.1	M00001639A:H06	76133
800	2/24/98	45	RTA00000409F.l.12.1	M00001615A:D06	26755
801	2/24/98	46	RTA00000404F.c.20.1	M00001594A:D08	39088
802	2/24/98	47	RTA00000423F.g.09.1	M00003904C:B06	38958
803	2/24/98	48	RTA00000411F.b.24.1	M00001677B:A12	30041
804	2/24/98	49	RTA00000406F.d.12.1	M00003875C:A01	38575
805	2/24/98	50	RTA00000411F.f.02.1	M00003813A:D08	63386
806	2/24/98	51	RTA00000129A.n.21.1	M00001604A:C11	79381
807	2/24/98	52	RTA00000409F.m.12.1	M00001618B:D09	73490
808	2/24/98	53	RTA00000410F.c.04.1	M00001633D:G09	74099
809	2/24/98	54	RTA00000399F.o.01.1	M00001595C:E01	3055
810	2/24/98	55	RTA00000406F.m.09.1	M00003914C:H05	26891
811	2/24/98	56	RTA00000411F.b.06.1	M00001676C:A04	77884
812	2/24/98	57	RTA00000409F.l.21.1	M00001615B:G07	73143
813	2/24/98	58	RTA00000420F.m.18.1	M00005254D:A10	0
814	2/24/98	59	RTA00000346F.j.08.1	M00003879B:A06	39951
815	2/24/98	60	RTA00000413F.p.17.2	M00005136D:G06	0
816	2/24/98	61	RTA00000410F.n.07.1	M00001662A:G01	78823
817	2/24/98	62	RTA00000339F.n.10.1	M00001453B:F08	13719
818	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
819	2/24/98	64	RTA00000413F.d.18.1	M00004090B:B04	65305
820	2/24/98	65	RTA00000404F.p.04.2	M00001652D:E05	39069
821	2/24/98	66	RTA00000405F.g.19.2	M00001673A:G08	37150
822	2/24/98	67	RTA00000409F.a.22.1	M00001583B:F02	75200
823	2/24/98	68	RTA00000339F.n.03.1	M00001449B:B03	0
824	2/24/98	69	RTA00000405F.o.18.1	M00003839A:D07	11016
825	2/24/98	70	RTA00000409F.m.13.1	M00001618B:E05	0
826	2/24/98	71	RTA00000120A.d.24.1	M00001464A:E10	5085
827	2/24/98	72	RTA00000347F.a.08.1	M00001592C:G04	3135
828	2/24/98	73	RTA00000413F.p.15.2	M00005136D:D06	0
829	2/24/98	74	RTA00000408F.e.22.2	M00001476B:F08	26930
830	2/24/98	75	RTA00000350R.i.22.1	M00001608B:A03	0
831	2/24/98	76	RTA00000413F.d.16.1	M00004088C:F01	63331
832	2/24/98	77	RTA00000420F.j.22.1	M00005173B:F01	0
833	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
833	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
834	2/24/98	79	RTA00000419F.g.08.1	M00003842C:D11	66700
835	2/24/98	80	RTA00000122A.g.16.1	M00001514A:B04	81366
836	2/24/98	81	RTA00000419F.c.16.1	M00003819D:B01	65254
837	2/24/98	82	RTA00000411F.b.03.1	M00001676B:E01	23634
838	2/24/98	83	RTA00000405F.e.11.2	M00001663D:C06	9331
839	2/24/98	84	RTA00000352R.i.15.1	M00004153B:B03	4363

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
840	2/24/98	85	RTA00000339F.k.22.1	M00001427C:D01	5556
841	2/24/98	86	RTA00000346F.g.22.1	M00003794D:G03	6371
842	2/24/98	87	RTA00000403F.l.20.1	M00001573A:A06	18267
843	2/24/98	88	RTA00000420F.i.24.1	M00005134B:E08	0
844	2/24/98	89	RTA00000406F.c.08.1	M00003870C:A10	22387
845	2/24/98	90	RTA00000411F.a.02.1	M00001675B:E02	78537
846	2/24/98	91	RTA00000355R.e.15.1	M00004316A:G09	22639
847	2/24/98	92	RTA00000412F.l.04.1	M00003989D:F12	66372
848	2/24/98	93	RTA00000413F.p.24.1	M00005139A:H03	0
849	2/24/98	94	RTA00000406F.a.23.1	M00003867B:D10	38712
850	2/24/98	95	RTA00000423F.h.05.1	M00003906A:F04	14837
851	2/24/98	96	RTA00000120A.n.19.3	M00001467A:H07	80004
852	2/24/98	97	RTA00000403F.e.01.1	M00001473A:C11	38965
853	2/24/98	98	RTA00000411F.l.03.1	M00003854D:A12	62702
854	2/24/98	99	RTA00000420F.m.19.1	M00005254D:B08	0
855	2/24/98	100	RTA00000339F.o.23.1	M00001473C:D09	7801
856	2/24/98	101	RTA00000121A.m.2.1	M00001507A:A11	81064
857	2/24/98	102	RTA00000420F.g.06.1	M00004891C:D04	0
858	2/24/98	103	RTA00000418F.j.12.1	M00001626C:G08	73316
859	2/24/98	104	RTA00000421F.n.03.1	M00001675C:A04	1638
860	2/24/98	105	RTA00000346F.d.08.1	M00001671A:A10	39955
861	2/24/98	106	RTA00000339F.f.11.1	M00001391C:H02	5832
862	2/24/98	107	RTA00000125A.g.16.1	M00001544A:C09	21497
863	2/24/98	108	RTA00000418F.o.18.1	M00001661B:F06	78676
864	2/24/98	109	RTA00000422F.p.24.2	M00001658A:G09	5823
865	2/24/98	110	RTA00000408F.k.14.1	M00001486B:E12	73856
866	2/24/98	111	RTA00000128A.i.20.1	M00001560A:F03	9900
867	2/24/98	112	RTA00000422F.c.11.1	M00003841D:A04	2643
868	2/24/98	113	RTA00000401F.e.02.1	M00003805B:C04	0
869	2/24/98	114	RTA00000341F.m.21.1	M00004051D:E01	0
870	2/24/98	115	RTA00000418F.h.19.1	M00001590B:C05	0
871	2/24/98	116	RTA00000403F.o.15.1	M00001582B:E12	39140
872	2/24/98	117	RTA00000341F.m.13.1	M00003987B:E12	26502
873	2/24/98	118	RTA00000408F.h.03.1	M00001479D:H03	78382
874	2/24/98	119	RTA00000423F.k.05.1	M00004036D:F02	37472
875	2/24/98	120	RTA00000401F.m.02.1	M00003907A:F01	1573
876	2/24/98	121	RTA00000418F.p.19.1	M00001677D:B01	78544
877	2/24/98	122	RTA00000420F.f.06.1	M00004115D:D08	64812
878	2/24/98	123	RTA00000122A.j.18.1	M00001516A:D05	81317
879	2/24/98	124	RTA00000420F.d.05.1	M00004092B:E05	64432
880	2/24/98	125	RTA00000403F.m.18.1	M00001576A:B09	39185
881	2/24/98	126	RTA00000422F.j.20.1	M00001653A:G07	22388
882	2/24/98	127	RTA00000411F.j.05.1	M00003841C:F06	40709
883	2/24/98	128	RTA00000403F.a.04.1	M00001448A:B12	23529
884	2/24/98	129	RTA00000118A.d.24.1	M00001416A:H02	81488
885	2/24/98	130	RTA00000406F.f.12.1	M00003879A:C11	21895
886	2/24/98	131	RTA00000418F.g.22.1	M00001585B:F01	74837
887	2/24/98	132	RTA00000418F.m.05.1	M00001650B:C10	73600
888	2/24/98	133	RTA00000404F.l.20.1	M00001639B:H05	38638
889	2/24/98	134	RTA00000408F.i.08.2	M00001482A:H05	75811

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
890	2/24/98	135	RTA00000122A.d.5.1	M00001513A:F05	81155
891	2/24/98	136	RTA00000419F.l.12.1	M00003901C:B01	75710
892	2/24/98	137	RTA00000339R.a.06.1	M00001346A:E04	58694
893	2/24/98	138	RTA00000406F.f.03.1	M00003878C:D08	38687
894	2/24/98	139	RTA00000419F.b.19.1	M00003809A:C01	65534
895	2/24/98	140	RTA00000128A.j.6.2	M00001560A:H10	5316
896	2/24/98	141	RTA00000418F.k.19.1	M00001639C:C02	74932
897	2/24/98	142	RTA00000420F.j.19.1	M00005140C:B10	0
898	2/24/98	143	RTA00000420F.h.13.1	M00004899D:G06	0
899	2/24/98	144	RTA00000349R.f.15.1	M00001472A:D08	75097
900	2/24/98	145	RTA00000419F.g.12.1	M00003842C:G03	66171
901	2/24/98	146	RTA00000404F.n.11.2	M00001649A:E11	38001
902	2/24/98	147	RTA00000422F.c.02.1	M00004118B:A03	2902
903	2/24/98	148	RTA00000419F.n.04.1	M00003975C:F07	13102
904	2/24/98	149	RTA00000419F.o.24.1	M00004031A:F07	65092
905	2/24/98	150	RTA00000419F.k.19.1	M00003877C:G12	75447
906	2/24/98	151	RTA00000341F.c.21.1	M00003789C:F06	7899
907	2/24/98	152	RTA00000127A.i.20.1	M00001555A:B12	81418
908	2/24/98	153	RTA00000422F.g.22.1	M00001585B:A06	22561
909	2/24/98	154	RTA00000340F.b.21.1	M00001533D:A08	8001
910	2/24/98	155	RTA00000413F.h.13.1	M00004107A:D01	65190
911	2/24/98	156	RTA00000125A.k.1.1	M00001545A:B12	0
912	2/24/98	157	RTA00000339F.a.23.1	M00001361B:C07	4022
913	2/24/98	158	RTA00000348R.j.16.1	M00001410A:D07	7005
914	2/24/98	159	RTA00000348R.j.17.1	M00001391D:C06	2641
915	2/24/98	160	RTA00000414F.f.19.1	M00005260B:E11	0
916	2/24/98	161	RTA00000418F.n.22.1	M00001659D:B05	79062
917	2/24/98	162	RTA00000406F.l.08.1	M00003908D:D12	39016
918	2/24/98	163	RTA00000422F.l.23.1	M00001616D:C11	4240
919	2/24/98	164	RTA00000345F.k.06.1	M00001475A:A12	0
920	2/24/98	165	RTA00000409F.j.07.1	M00001611C:H11	75190
921	2/24/98	166	RTA00000418F.m.19.1	M00001654D:A03	8890
922	2/24/98	167	RTA00000399F.l.14.1	M00001590B:G08	3354
923	2/24/98	168	RTA00000411F.e.22.1	M00003812B:D07	63638
924	2/24/98	169	RTA00000347F.a.17.1	M00001366D:C06	16723
925	2/24/98	170	RTA00000422F.n.08.1	M00001632B:E05	38655
926	2/24/98	171	RTA00000404F.n.20.1	M00001650A:C11	26865
927	2/24/98	172	RTA00000420F.i.17.1	M00005101C:B09	0
928	2/24/98	173	RTA00000418F.d.13.1	M00001570A:H01	74309
929	2/24/98	174	RTA00000404F.b.02.1	M00001591B:B12	38984
930	2/24/98	175	RTA00000410F.d.09.1	M00001635B:H01	76964
931	2/24/98	176	RTA00000403F.b.10.1	M00001455C:G07	73268
932	2/24/98	177	RTA00000406F.i.12.1	M00003903D:H11	39080
933	2/24/98	178	RTA00000406F.h.08.1	M00003901C:A08	16228
934	2/24/98	179	RTA00000418F.i.19.1	M00001596D:E03	79180
935	2/24/98	180	RTA00000400F.j.19.1	M00001653C:D10	4086
936	2/24/98	181	RTA00000412F.h.21.1	M00003974D:F02	64348
937	2/24/98	182	RTA00000404F.g.14.1	M00001614D:B08	8858
938	2/24/98	183	RTA00000120A.g.18.1	M00001465A:C12	81255
939	2/24/98	184	RTA00000133A.j.13.1	M00001507A:B02	16846

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
940	2/24/98	185	RTA00000423F.j.05.1	M00003903C:C05	37958
941	2/24/98	186	RTA00000132A.k.6.1	M00001464A:E07	81284
942	2/24/98	187	RTA00000351R.g.11.1	M00003779D:E08	3077
943	2/24/98	188	RTA00000406F.p.04.1	M00004030D:F11	37458
944	2/24/98	189	RTA00000347F.a.13.1	M00001402D:F02	22446
945	2/24/98	190	RTA00000419F.p.23.1	M00004039B:A05	64748
946	2/24/98	191	RTA00000419F.d.17.1	M00003828B:F09	64353
947	2/24/98	192	RTA00000421F.k.15.1	M00001613D:B03	2222
948	2/24/98	193	RTA00000347F.b.10.1	M00001546C:C07	8044
949	2/24/98	194	RTA00000124A.k.5.1	M00001538A:F12	80252
950	2/24/98	195	RTA00000404F.h.22.1	M00001619C:C07	18735
951	2/24/98	196	RTA00000418F.k.10.1	M00001639A:G07	74454
952	2/24/98	197	RTA00000410F.o.05.1	M00001669A:B02	75262
953	2/24/98	198	RTA00000339R.l.14.1	M00001452A:C07	19119
954	2/24/98	199	RTA00000403F.m.13.2	M00001575D:A10	39077
955	2/24/98	200	RTA00000339F.c.02.1	M00001381C:B08	12975
956	2/24/98	201	RTA00000404F.l.09.1	M00001638B:E12	39176
957	2/24/98	202	RTA00000419F.g.22.1	M00003845D:A09	64515
958	2/24/98	203	RTA00000404F.g.21.1	M00001615C:A11	37947
959	2/24/98	204	RTA00000351R.k.19.1	M00003841B:E03	936
960	2/24/98	205	RTA00000138A.n.4.1	M00001624A:G11	21920
961	2/24/98	206	RTA00000410F.b.15.1	M00001633C:F09	77100
962	2/24/98	207	RTA00000414F.b.08.1	M00005212C:H02	0
963	2/24/98	208	RTA00000419F.j.23.1	M00003871A:C11	74470
964	2/24/98	209	RTA00000411F.j.02.1	M00003841C:D07	65310
965	2/24/98	210	RTA00000419F.p.24.1	M00004039B:E12	63477
966	2/24/98	211	RTA00000404F.a.19.1	M00001590B:C07	38624
967	2/24/98	212	RTA00000408F.k.06.1	M00001485C:H10	78393
968	2/24/98	213	RTA00000123A.f.3.1	M00001531A:H07	44017
969	2/24/98	214	RTA00000404F.h.19.1	M00001619A:E05	8096
970	2/24/98	215	RTA00000403F.j.18.1	M00001539D:E10	5790
971	2/24/98	216	RTA00000420F.i.18.1	M00005101C:E09	0
972	2/24/98	217	RTA00000399F.o.17.1	M00001599D:A09	1106
973	2/24/98	218	RTA00000346F.e.13.1	M00001660B:D03	74653
974	2/24/98	219	RTA00000419F.c.18.1	M00003819D:B11	41394
975	2/24/98	220	RTA00000413F.k.02.1	M00004690A:G08	0
976	2/24/98	221	RTA00000414F.f.13.1	M00005259D:H08	0
977	2/24/98	222	RTA00000405F.e.09.1	M00001663C:F12	38978
978	2/24/98	223	RTA00000404F.e.22.1	M00001610A:H05	11344
979	2/24/98	224	RTA00000341F.g.21.1	M00003914C:F09	8823
980	2/24/98	225	RTA00000414F.d.07.1	M00005229D:H09	0
981	2/24/98	226	RTA00000125A.k.10.1	M00001545A:F02	81644
982	2/24/98	227	RTA00000347F.c.06.1	M00001444D:C01	18846
983	2/24/98	228	RTA00000411F.k.19.1	M00003852D:E08	64200
984	2/24/98	229	RTA00000345F.i.09.1	M00001450A:D08	27250
985	2/24/98	230	RTA00000423F.k.01.1	M00004034D:E09	40426
986	2/24/98	231	RTA00000408F.d.06.1	M00001458D:C11	78997
987	2/24/98	232	RTA00000128A.b.20.1	M00001558A:G09	79761
988	2/24/98	233	RTA00000403F.i.08.1	M00001485C:B10	6176
989	2/24/98	234	RTA00000195AF.d.4.1	M00003881D:D06	22766

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
989	1/28/98	185	RTA00000195AF.d.4.1	M00003881D:D06	22766
990	2/24/98	235	RTA00000126A.o.23.1	M00001551A:B10	6268
991	2/24/98	236	RTA00000403F.h.12.1	M00001483C:G09	15205
992	2/24/98	237	RTA00000119A.j.22.1	M00001460A:F07	80336
993	2/24/98	238	RTA00000340F.j.12.1	M00001624A:B06	3277
994	2/24/98	239	RTA00000346F.j.02.1	M00003832B:E01	5294
995	2/24/98	240	RTA00000126A.n.7.2	M00001551A:D06	79557
996	2/24/98	241	RTA00000339F.d.13.1	M00001395C:F11	0
997	2/24/98	242	RTA00000404F.j.08.1	M00001629B:B08	39066
998	2/24/98	243	RTA00000410F.c.14.1	M00001634A:H05	77809
999	2/24/98	244	RTA00000120A.g.23.1	M00001465A:E10	81189
1000	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
1000	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
1001	2/24/98	246	RTA00000414F.c.14.1	M00005218A:G05	0
1002	2/24/98	247	RTA00000412F.j.17.1	M00003982C:G04	64071
1003	2/24/98	248	RTA00000404F.k.24.1	M00001636A:C03	15256
1004	2/24/98	249	RTA00000119A.j.10.1	M00001460A:C10	79646
1005	2/24/98	250	RTA00000410F.o.12.1	M00001669A:G12	77376
1006	2/24/98	251	RTA00000119A.i.9.1	M00001457A:G03	0
1007	2/24/98	252	RTA00000412F.g.24.1	M00003973C:C03	28741
1008	2/24/98	253	RTA00000400F.f.18.1	M00001637A:E10	3764
1009	2/24/98	254	RTA00000341F.l.15.1	M00003986B:A08	5294
1010	2/24/98	255	RTA00000419F.o.16.1	M00003989C:G05	62867
1011	2/24/98	256	RTA00000404F.m.03.2	M00001640A:H02	11799
1012	2/24/98	257	RTA00000411F.c.17.1	M00001678D:G03	77664
1013	2/24/98	258	RTA00000406F.k.15.1	M00003907C:C04	38549
1014	2/24/98	259	RTA00000406F.a.02.1	M00003855C:F10	37744
1015	2/24/98	260	RTA00000414F.e.08.1	M00005236A:E04	0
1016	2/24/98	261	RTA00000341F.b.06.1	M00003794A:E12	17008
1017	2/24/98	262	RTA00000409F.n.14.1	M00001621B:G05	78190
1018	2/24/98	263	RTA00000410F.p.17.1	M00001674D:C10	47425
1019	2/24/98	264	RTA00000345F.j.08.1	M00001451B:A04	16731
1020	2/24/98	265	RTA00000340F.k.16.1	M00001647B:C09	13157
1021	2/24/98	266	RTA00000419F.g.15.1	M00003844D:A07	32519
1022	2/24/98	267	RTA00000423F.a.19.1	M00001676D:A02	21396
1023	2/24/98	268	RTA00000403F.e.23.1	M00001476A:D11	9626
1024	2/24/98	269	RTA00000422F.e.08.1	M00001573A:E01	39020
1025	2/24/98	270	RTA00000411F.d.15.1	M00001692A:B06	74890
1026	2/24/98	271	RTA00000414F.e.16.1	M00005236B:H10	0
1027	2/24/98	272	RTA00000411F.l.15.1	M00003857C:F11	66704
1028	2/24/98	273	RTA00000400F.a.11.1	M00001612B:D11	0
1029	2/24/98	274	RTA00000405F.e.08.1	M00001663C:F10	37916
1030	2/24/98	275	RTA00000353R.j.24.1	M00001428B:D01	23089
1031	2/24/98	276	RTA00000423F.a.18.1	M00001675A:G10	26761
1032	2/24/98	277	RTA00000418F.o.06.1	M00001660C:D11	75930
1033	2/24/98	278	RTA00000404F.c.10.1	M00001593B:E11	23534
1034	2/24/98	279	RTA00000418F.i.21.1	M00001596D:E10	78728
1035	2/24/98	280	RTA00000419F.p.15.1	M00001671C:C11	31066
1036	2/24/98	281	RTA00000411F.l.13.1	M00003857C:C09	43114
1037	2/24/98	282	RTA00000407F.a.24.1	M00004083A:E08	37560

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1038	2/24/98	283	RTA00000346F.n.06.1	M00004139C:A12	12439
1039	2/24/98	284	RTA00000412F.l.21.1	M00004029C:G10	65183
1040	2/24/98	285	RTA00000413F.i.02.1	M00004110D:A10	65857
1041	2/24/98	286	RTA00000404F.i.19.1	M00001625B:C10	38698
1042	2/24/98	287	RTA00000410F.n.09.1	M00001662C:A04	11736
1043	2/24/98	288	RTA00000403F.a.11.1	M00001448C:F10	73109
1044	2/24/98	289	RTA00000420F.n.08.1	M00005257A:H11	0
1045	2/24/98	290	RTA00000411F.k.16.1	M00003852C:B06	64759
1046	2/24/98	291	RTA00000405F.c.01.1	M00001657D:A04	19236
1047	2/24/98	292	RTA00000423F.i.18.1	M00003918A:D08	14996
1048	2/24/98	293	RTA00000403F.l.04.1	M00001571C:A04	39278
1049	2/24/98	294	RTA00000405F.l.17.1	M00003805A:F02	17225
1050	2/24/98	295	RTA00000406F.a.07.1	M00003856C:H09	26607
1051	2/24/98	296	RTA00000347F.d.06.1	M00001457C:F02	39122
1052	2/24/98	297	RTA00000419F.b.18.1	M00003808D:D08	67034
1053	2/24/98	298	RTA00000406F.h.07.1	M00003901B:H04	38003
1054	2/24/98	299	RTA00000405F.l.15.1	M00001694A:E03	19575
1055	2/24/98	300	RTA00000406F.g.17.1	M00003881B:F10	37979
1056	2/24/98	301	RTA00000401F.m.23.1	M00003914C:C02	2801
1057	2/24/98	302	RTA00000356R.f.18.1	M00004692A:H10	0
1058	2/24/98	303	RTA00000130A.h.22.1	M00001617A:D06	80933
1059	2/24/98	304	RTA00000403F.n.18.2	M00001577D:H06	8811
1060	2/24/98	305	RTA00000418F.p.06.1	M00001664A:F08	32628
1061	2/24/98	306	RTA00000404F.d.13.1	M00001595D:A04	39036
1062	2/24/98	307	RTA00000420F.l.12.2	M00005230B:H09	0
1063	2/24/98	308	RTA00000353R.d.11.1	M00004692A:H08	0
1064	2/24/98	309	RTA00000340F.n.01.1	M00001679A:G06	39081
1065	2/24/98	310	RTA00000419F.d.06.1	M00003820B:D07	65496
1066	2/24/98	311	RTA00000419F.n.09.1	M00003977C:A06	66070
1067	2/24/98	312	RTA00000399F.i.08.1	M00001575D:B10	38927
1068	2/24/98	313	RTA00000406F.g.07.1	M00003880C:E11	37925
1069	2/24/98	314	RTA00000423F.g.13.1	M00003905A:E07	38028
1070	2/24/98	315	RTA00000419F.p.12.1	M00004037A:E04	13767
1071	2/24/98	316	RTA00000414F.a.02.1	M00005178D:H04	0
1072	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
1072	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
1073	2/24/98	318	RTA00000403F.h.05.1	M00001482D:A04	39096
1074	2/24/98	319	RTA00000420F.b.21.1	M00004088D:B10	65057
1075	2/24/98	320	RTA00000422F.p.07.2	M00001661A:E06	39024
1076	2/24/98	321	RTA00000339F.c.21.1	M00001389C:A08	5325
1077	2/24/98	322	RTA00000339F.c.24.1	M00001364B:B06	5516
1078	2/24/98	323	RTA00000421F.n.19.1	M00001679A:D10	16409
1079	2/24/98	324	RTA00000340F.p.17.1	M00003750C:H05	0
1080	2/24/98	325	RTA00000345F.k.21.1	M00001464B:C11	40204
1081	2/24/98	326	RTA00000419F.b.15.1	M00003806D:D11	43969
1082	2/24/98	327	RTA00000405F.a.11.1	M00001655A:B11	39124
1083	2/24/98	328	RTA00000423F.k.19.2	M00003985D:E10	17615
1084	2/24/98	329	RTA00000413F.e.16.1	M00004093C:C02	63836
1085	2/24/98	330	RTA00000403F.i.04.1	M00001485B:D09	8930
1086	2/24/98	331	RTA00000404F.o.18.2	M00001651C:C05	39110

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1087	2/24/98	332	RTA00000409F.i.24.1	M00001611B:A09	76967
1088	2/24/98	333	RTA00000399F.f.11.1	M00001487C:F01	40167
1089	2/24/98	334	RTA00000408F.p.05.1	M00001575B:B02	9649
1090	2/24/98	335	RTA00000413F.d.02.1	M00004087B:A12	66172
1091	2/24/98	336	RTA00000340F.n.13.1	M00001688D:B10	17055
1092	2/24/98	337	RTA00000340F.p.04.1	M00001679D:B02	78533
1093	2/24/98	338	RTA00000411F.c.05.1	M00001677B:H06	73368
1094	2/24/98	339	RTA00000403F.g.10.1	M00001481A:G06	20211
1095	2/24/98	340	RTA00000408F.l.13.1	M00001530A:B12	4423
1096	2/24/98	341	RTA00000412F.g.20.2	M00003972C:F08	25018
1097	2/24/98	342	RTA00000404F.i.02.1	M00001619D:D10	39015
1098	2/24/98	343	RTA00000422F.g.21.1	M00001583A:F07	17232
1099	2/24/98	344	RTA00000403F.m.15.2	M00001575D:D12	26901
1100	2/24/98	345	RTA00000412F.h.23.2	M00003974D:H04	65118
1101	2/24/98	346	RTA00000418F.j.08.1	M00001626C:C11	73382
1102	2/24/98	347	RTA00000125A.n.4.1	M00001546A:D08	81984
1103	2/24/98	348	RTA00000412F.l.19.1	M00004029C:C05	65825
1104	2/24/98	349	RTA00000404F.m.10.2	M00001641D:E02	779
1105	2/24/98	350	RTA00000129A.p.3.1	M00001604A:B08	32644
1106	2/24/98	351	RTA00000340F.p.20.1	M00003752B:C02	17008
1107	2/24/98	352	RTA00000411F.a.10.1	M00001675C:G01	73073
1108	2/24/98	353	RTA00000409F.n.17.1	M00001621C:C10	76725
1109	2/24/98	354	RTA00000404F.c.03.2	M00001592C:F11	39198
1110	2/24/98	355	RTA00000420F.a.19.1	M00004076A:D12	34192
1111	2/24/98	356	RTA00000409F.m.24.1	M00001620D:H02	3942
1112	2/24/98	357	RTA00000406F.n.16.1	M00003972A:G09	5660
1113	2/24/98	358	RTA00000414F.e.06.1	M00005235A:A03	0
1114	2/24/98	359	RTA00000420F.d.12.1	M00004096D:H03	64095
1115	2/24/98	360	RTA00000409F.j.19.1	M00001613A:F03	73792
1116	2/24/98	361	RTA00000422F.d.16.1	M00001570C:G03	39133
1117	2/24/98	362	RTA00000418F.m.16.1	M00001653B:E06	74986
1118	2/24/98	363	RTA00000405F.c.11.1	M00001659A:D12	39068
1119	2/24/98	364	RTA00000404F.k.22.1	M00001635D:C12	39084
1120	2/24/98	365	RTA00000418F.k.07.1	M00001637A:F10	75067
1121	2/24/98	366	RTA00000403F.c.10.1	M00001456D:F05	75261
1122	2/24/98	367	RTA00000401F.o.06.1	M00004029C:C12	2679
1123	2/24/98	368	RTA00000346F.o.08.1	M00004149C:B02	0
1124	2/24/98	369	RTA00000410F.m.05.1	M00001657B:B04	74964
1125	2/24/98	370	RTA00000405F.i.20.1	M00001677A:G11	38532
1126	2/24/98	371	RTA00000403F.j.17.1	M00001539D:B10	38563
1127	2/24/98	372	RTA00000408F.p.24.1	M00001579A:E03	74286
1128	2/24/98	373	RTA00000418F.k.18.1	M00001639C:A10	75385
1129	2/24/98	374	RTA00000422F.m.04.1	M00001615B:A09	38702
1130	2/24/98	375	RTA00000405F.g.16.2	M00001672D:D04	9021
1131	2/24/98	376	RTA00000400F.k.22.1	M00001656A:B07	2512
1132	2/24/98	377	RTA00000346F.i.01.1	M00003797A:D06	22260
1133	2/24/98	378	RTA00000403F.a.07.1	M00001448B:F09	73559
1134	2/24/98	379	RTA00000349R.j.07.1	M00001529B:C04	2642
1135	2/24/98	380	RTA00000403F.b.19.1	M00001456B:A06	22327
1136	2/24/98	381	RTA00000418F.m.23.1	M00001654D:F11	77195

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1137	2/24/98	382	RTA00000341F.h.10.1	M00003901B:G11	0
1138	2/24/98	383	RTA00000404F.i.18.1	M00001621C:H12	21912
1139	2/24/98	384	RTA00000422F.i.14.1	M00001487A:F10	39300
1140	2/24/98	385	RTA00000418F.m.14.1	M00001651B:E06	75711
1141	2/24/98	386	RTA00000406F.o.12.1	M00003986D:D02	37459
1142	2/24/98	387	RTA00000411F.a.15.1	M00001675D:B08	73812
1143	2/24/98	388	RTA00000411F.a.07.1	M00001675C:C03	74547
1144	2/24/98	389	RTA00000411F.c.02.1	M00001677B:B04	72852
1145	2/24/98	390	RTA00000355R.a.14.1	M00004187D:G09	10207
1146	2/24/98	391	RTA00000130A.h.16.1	M00001617A:A08	80761
1147	2/24/98	392	RTA00000410F.p.23.1	M00001675B:C01	73948
1148	2/24/98	393	RTA00000418F.m.24.1	M00001654D:F12	77114
1149	2/24/98	394	RTA00000420F.m.02.1	M00005233A:G08	0
1150	2/24/98	395	RTA00000408F.j.19.2	M00001485C:C08	73752
1151	2/24/98	396	RTA00000406F.e.21.1	M00003877D:G05	9090
1152	2/24/98	397	RTA00000118A.d.17.1	M00001416A:D09	81921
1153	2/24/98	398	RTA00000407F.b.04.1	M00004086D:B09	63221
1154	2/24/98	399	RTA00000411F.e.07.1	M00003810C:A03	65008
1155	2/24/98	400	RTA00000403F.f.08.1	M00001477A:G07	19107
1156	2/24/98	401	RTA00000132A.c.11.1	M00001454A:G03	87278
1157	2/24/98	402	RTA00000420F.e.16.1	M00004110A:E04	63639
1158	2/24/98	403	RTA00000403F.d.22.1	M00001473A:A07	10692
1159	2/24/98	404	RTA00000404F.b.11.1	M00001591D:F06	39079
1160	2/24/98	405	RTA00000418F.k.17.1	M00001639C:A09	75390
1161	2/24/98	406	RTA00000129A.k.12.1	M00001601A:A06	79322
1162	2/24/98	407	RTA00000340R.m.07.1	M00001679D:F02	78415
1163	2/24/98	408	RTA00000405F.d.14.1	M00001662A:C12	35209
1164	2/24/98	409	RTA00000406F.f.11.1	M00003879A:B08	38601
1165	2/24/98	410	RTA00000120A.h.5.1	M00001465A:G06	80344
1166	2/24/98	411	RTA00000420F.m.12.1	M00005234D:B04	0
1167	2/24/98	412	RTA00000411F.g.06.1	M00003822D:C06	66065
1168	2/24/98	413	RTA00000408F.d.16.1	M00001459B:D03	76318
1169	2/24/98	414	RTA00000120A.p.18.1	M00001468A:C05	6478
1170	2/24/98	415	RTA00000340R.f.05.1	M00001569B:G11	3202
1171	2/24/98	416	RTA00000404F.c.19.1	M00001594A:D06	39026
1172	2/24/98	417	RTA00000423F.l.02.1	M00003978C:A03	5639
1173	2/24/98	418	RTA00000410F.a.01.1	M00001631D:B10	73354
1174	2/24/98	419	RTA00000408F.h.08.1	M00001480A:D03	74575
1175	2/24/98	420	RTA00000422F.b.16.1	M00003813B:A11	17045
1176	2/24/98	421	RTA00000419F.f.10.1	M00003835D:G06	66193
1177	2/24/98	422	RTA00000418F.l.04.1	M00001641C:D02	74140
1178	2/24/98	423	RTA00000410F.a.16.1	M00001633A:E06	73548
1179	2/24/98	424	RTA00000138A.e.13.1	M00001605A:E06	79608
1180	2/24/98	425	RTA00000130A.b.5.1	M00001605A:E09	79579
1181	2/24/98	426	RTA00000408F.j.15.2	M00001485B:F05	74759
1182	2/24/98	427	RTA00000410F.m.20.1	M00001660B:E03	74285
1183	2/24/98	428	RTA00000422F.f.14.1	M00001478B:D07	2036
1184	2/24/98	429	RTA00000422F.c.17.1	M00004099D:F01	1360
1185	2/24/98	430	RTA00000419F.e.04.1	M00003831C:G05	62963
1186	2/24/98	431	RTA00000399F.j.15.1	M00001578C:G06	1261

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1187	2/24/98	432	RTA00000418F.g.05.1	M00001579C:H06	73075
1188	2/24/98	433	RTA00000419F.n.02.1	M00003958B:H08	65963
1189	2/24/98	434	RTA00000348R.b.16.1	M00001347B:H04	6510
1190	2/24/98	435	RTA00000340F.b.02.1	M00001503C:G05	10185
1191	2/24/98	436	RTA00000119A.m.15.1	M00001461A:E05	80989
1192	2/24/98	437	RTA00000403F.m.20.2	M00001576A:F11	707
1193	2/24/98	438	RTA00000195R.d.09.1	M00003981C:B04	8537
1194	2/24/98	439	RTA00000413F.g.23.1	M00004103B:E09	40700
1195	2/24/98	440	RTA00000403F.a.18.1	M00001448D:F12	75726
1196	2/24/98	441	RTA00000404F.m.20.2	M00001647A:H08	39144
1197	2/24/98	442	RTA00000347F.b.02.1	M00001450A:A02	39304
1198	2/24/98	443	RTA00000414F.f.15.1	M00005260A:A12	0
1199	2/24/98	444	RTA00000419F.h.04.1	M00003846A:D03	65034
1200	2/24/98	445	RTA00000408F.d.12.1	M00001459B:A12	75782
1201	2/24/98	446	RTA00000133A.m.19.2	M00001512A:G05	80167
1202	2/24/98	447	RTA00000423F.b.04.3	M00001675D:E10	6311
1203	2/24/98	448	RTA00000127A.a.3.1	M00001552A:H10	13232
1204	2/24/98	449	RTA00000411F.j.16.1	M00003843A:E08	17237
1205	2/24/98	450	RTA00000118A.a.23.1	M00001395A:H02	3500
1206	2/24/98	451	RTA00000126A.o.22.1	M00001551A:A11	81752
1207	2/24/98	452	RTA00000419F.n.13.1	M00003977D:A06	66026
1208	2/24/98	453	RTA00000130A.h.13.1	M00001617A:A01	80790
1209	2/24/98	454	RTA00000418F.n.19.1	M00001659C:F02	28761
1210	2/24/98	455	RTA00000399F.d.23.1	M00001481B:A07	3310
1211	2/24/98	456	RTA00000413F.o.06.1	M00005100A:B02	0
1212	2/24/98	457	RTA00000411F.m.19.1	M00003868D:D11	74924
1213	2/24/98	458	RTA00000130A.a.19.1	M00001605A:A06	0
1214	2/24/98	459	RTA00000419F.k.06.1	M00003871D:A10	78493
1215	2/24/98	460	RTA00000341F.j.12.1	M00003987C:G03	12195
1216	2/24/98	461	RTA00000412F.d.16.1	M00003906B:H06	26829
1217	2/24/98	462	RTA00000119A.j.23.1	M00001460A:G07	79835
1218	2/24/98	463	RTA00000403F.o.22.1	M00001583A:D01	25076
1219	2/24/98	464	RTA00000195AF.c.12.1	M00003818B:G12	37582
1219	1/28/98	300	RTA00000195AF.c.12.1	M00003818B:G12	37582
1220	2/24/98	465	RTA00000350R.p.18.1	M00001676B:F05	11460
1221	2/24/98	466	RTA00000406F.i.24.1	M00003904D:B12	12767
1222	2/24/98	467	RTA00000123A.n.13.2	M00001534A:D03	39167
1223	2/24/98	468	RTA00000423F.c.19.1	M00001680B:E10	40472
1224	2/24/98	469	RTA00000405F.g.24.1	M00001673D:D06	39076
1225	2/24/98	470	RTA00000411F.j.06.1	M00003841C:H08	63545
1226	2/24/98	471	RTA00000419F.c.11.1	M00003817B:C04	65504
1227	2/24/98	472	RTA00000135A.f.14.2	M00001542A:G12	79969
1228	2/24/98	473	RTA00000403F.a.05.1	M00001448A:E11	18808
1229	2/24/98	474	RTA00000405F.e.17.1	M00001669A:C10	38662
1230	2/24/98	475	RTA00000411F.d.05.1	M00001681C:A08	75812
1231	2/24/98	476	RTA00000345F.h.01.1	M00001441B:D11	10834
1232	2/24/98	477	RTA00000418F.d.03.1	M00001567B:G11	76824
1233	2/24/98	478	RTA00000418F.h.08.1	M00001589B:E07	76401
1234	2/24/98	479	RTA00000418F.m.10.1	M00001651A:H11	79110
1235	2/24/98	480	RTA00000411F.i.15.1	M00003837C:G08	31612

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1236	2/24/98	481	RTA00000413F.i.23.1	M00004118B:F01	63073
1237	2/24/98	482	RTA00000411F.e.24.1	M00003813A:B02	64781
1238	2/24/98	483	RTA00000406F.g.22.1	M00003881D:C12	38590
1239	2/24/98	484	RTA00000126A.n.13.2	M00001551A:H06	79735
1240	2/24/98	485	RTA00000419F.a.02.1	M00001678A:F05	77993
1241	2/24/98	486	RTA00000346F.l.13.1	M00003980B:C11	7542
1242	2/24/98	487	RTA00000420F.g.05.1	M00004891B:D01	0
1243	2/24/98	488	RTA00000339F.k.23.1	M00001429D:H12	0
1244	2/24/98	489	RTA00000406F.j.19.1	M00003906A:F12	1685
1245	2/24/98	490	RTA00000120A.d.15.1	M00001464A:B02	80533
1246	2/24/98	491	RTA00000418F.f.21.1	M00001579B:F04	75157
1247	2/24/98	492	RTA00000340F.o.18.1	M00001669D:C03	4261
1248	2/24/98	493	RTA00000129A.d.1.2	M00001587A:F05	80058
1249	2/24/98	494	RTA00000419F.k.12.1	M00003876C:F02	0
1250	2/24/98	495	RTA00000400F.o.21.1	M00001669C:C08	16259
1251	2/24/98	496	RTA00000419F.m.20.1	M00003914A:B07	76720
1252	2/24/98	497	RTA00000350R.f.21.1	M00001610C:E07	22110
1253	2/24/98	498	RTA00000406F.e.15.1	M00003877C:A11	39074
1254	2/24/98	499	RTA00000126A.p.18.2	M00001552A:E10	80881
1255	2/24/98	500	RTA00000411F.c.10.1	M00001678D:B11	73117
1256	2/24/98	501	RTA00000414F.f.05.1	M00005257D:H11	0
1257	2/24/98	502	RTA00000341F.d.08.1	M00003824C:D07	0
1258	2/24/98	503	RTA00000420F.m.08.1	M00005233B:D04	0
1259	2/24/98	504	RTA00000413F.d.05.1	M00004087C:A01	64788
1260	2/24/98	505	RTA00000121A.o.3.1	M00001511A:A02	81437
1261	2/24/98	506	RTA00000403F.f.09.1	M00001477B:C02	0
1262	2/24/98	507	RTA00000420F.e.02.1	M00004107B:D07	40259
1263	2/24/98	508	RTA00000420F.i.20.1	M00005101C:E12	0
1264	2/24/98	509	RTA00000349R.g.10.1	M00001495B:B08	5777
1265	2/24/98	510	RTA00000131A.g.16.2	M00001449A:F01	0
1266	2/24/98	511	RTA00000341F.b.13.1	M00003762B:H09	0
1267	2/24/98	512	RTA00000414F.c.16.1	M00005228A:B03	0
1268	2/24/98	513	RTA00000126A.k.7.2	M00001550A:E07	79866
1269	2/24/98	514	RTA00000404F.e.13.1	M00001608D:E09	12046
1270	2/24/98	515	RTA00000419F.l.03.1	M00003879A:D02	79060
1271	2/24/98	516	RTA00000339F.f.20.1	M00001399A:C03	6494
1272	2/24/98	517	RTA00000118A.a.2.1	M00001395A:A12	38067
1273	2/24/98	518	RTA00000410F.m.18.1	M00001660B:A09	76365
1274	2/24/98	519	RTA00000404F.l.10.1	M00001638B:F10	23136
1275	2/24/98	520	RTA00000406F.c.20.1	M00003871D:G06	38578
1276	2/24/98	521	RTA00000413F.b.14.1	M00004078A:C11	66591
1277	2/24/98	522	RTA00000406F.c.18.1	M00003871C:F12	14368
1278	2/24/98	523	RTA00000418F.j.09.1	M00001626C:D12	76352
1279	2/24/98	524	RTA00000419F.f.23.1	M00003840D:H10	65002
1280	2/24/98	525	RTA00000348R.d.24.1	M00001349B:G05	5774
1281	2/24/98	526	RTA00000411F.a.05.1	M00001675B:H03	76699
1282	2/24/98	527	RTA00000419F.m.21.1	M00003914A:E04	77947
1283	2/24/98	528	RTA00000405F.n.16.1	M00003825B:B10	21503
1284	2/24/98	529	RTA00000422F.o.19.2	M00001655C:E01	13084
1285	2/24/98	530	RTA00000408F.n.02.2	M00001539A:E01	76993

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1286	2/24/98	531	RTA00000345F.n.12.1	M00001528A:C04	7337
1287	2/24/98	532	RTA00000403F.a.24.1	M00001455B:A09	24128
1288	2/24/98	533	RTA00000423F.e.11.1	M00003809B:E10	2566
1289	2/24/98	534	RTA00000126A.g.7.1	M00001548A:H04	1902
1290	2/24/98	535	RTA00000119A.g.7.1	M00001454A:F11	83580
1291	2/24/98	536	RTA00000411F.i.02.1	M00003835B:H11	66975
1292	2/24/98	537	RTA00000408F.l.09.1	M00001530A:A09	75487
1293	2/24/98	538	RTA00000423F.g.04.1	M00003903D:C12	23012
1294	2/24/98	539	RTA00000346F.m.15.1	M00004037B:C04	13553
1295	2/24/98	540	RTA00000418F.i.18.1	M00001595C:B05	78024
1296	2/24/98	541	RTA00000411F.h.15.1	M00003832A:A09	65160
1297	2/24/98	542	RTA00000410F.i.19.1	M00001641B:C10	78988
1298	2/24/98	543	RTA00000419F.k.24.1	M00003878C:G08	75596
1299	2/24/98	544	RTA00000420F.l.21.2	M00005232A:H12	0
1300	2/24/98	545	RTA00000420F.e.15.1	M00004110A:A10	20190
1301	2/24/98	546	RTA00000409F.i.09.1	M00001610B:C07	75279
1302	2/24/98	547	RTA00000419F.h.02.1	M00003845D:G08	63985
1303	2/24/98	548	RTA00000413F.b.12.1	M00004077B:H11	64932
1304	2/24/98	549	RTA00000121A.h.18.1	M00001471A:B04	16376
1305	2/24/98	550	RTA00000411F.n.20.1	M00003875C:A09	75816
1306	2/24/98	551	RTA00000340F.b.05.1	M00001513A:G07	0
1307	2/24/98	552	RTA00000411F.n.12.1	M00003875A:C04	73308
1308	2/24/98	553	RTA00000408F.j.12.2	M00001485B:C03	18226
1309	2/24/98	554	RTA00000409F.i.03.1	M00001610A:E09	75968
1310	2/24/98	555	RTA00000133A.d.22.1	M00001469A:G11	11797
1311	2/24/98	556	RTA00000400F.i.11.1	M00001649C:H10	2587
1312	2/24/98	557	RTA00000409F.j.05.1	M00001611C:C12	74128
1313	2/24/98	558	RTA00000419F.m.04.1	M00003906C:C05	74367
1314	2/24/98	559	RTA00000418F.k.03.1	M00001634D:G11	78901
1315	2/24/98	560	RTA00000419F.d.16.1	M00003828B:E07	64357
1316	2/24/98	561	RTA00000420F.e.10.1	M00004108D:G04	65899
1317	2/24/98	562	RTA00000401F.j.17.1	M00003901B:C05	5483
1318	2/24/98	563	RTA00000406F.b.08.1	M00003867D:A06	18258
1319	2/24/98	564	RTA00000418F.k.08.1	M00001639A:C03	18259
1320	2/24/98	565	RTA00000420F.k.17.2	M00005217B:A06	0
1321	2/24/98	566	RTA00000414F.d.05.1	M00005229D:H03	0
1322	2/24/98	567	RTA00000410F.c.02.1	M00001633D:D12	75055
1323	2/24/98	568	RTA00000403F.m.03.1	M00001573D:D10	39179
1324	2/24/98	569	RTA00000403F.h.18.1	M00001484C:A04	39241
1325	2/24/98	570	RTA00000405F.n.13.1	M00003824A:G10	23810
1326	2/24/98	571	RTA00000355R.e.14.1	M00004314B:G07	16837
1327	2/24/98	572	RTA00000422F.l.03.1	M00001610D:D05	39147
1328	2/24/98	573	RTA00000414F.c.23.1	M00005229B:G12	0
1329	2/24/98	574	RTA00000403F.o.14.1	M00001579D:H09	38971
1330	2/24/98	575	RTA00000345F.a.18.1	M00001351C:B06	5517
1331	2/24/98	576	RTA00000401F.d.15.2	M00001693C:C12	5297
1332	2/24/98	577	RTA00000419F.e.11.1	M00003833B:C12	36780
1333	2/24/98	578	RTA00000127A.f.11.1	M00001554A:A08	81463
1334	2/24/98	579	RTA00000413F.m.16.1	M00004898C:F03	0
1335	2/24/98	580	RTA00000403F.o.07.1	M00001579C:A01	39037

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1336	2/24/98	581	RTA00000403F.d.19.1	M00001472C:A01	39243
1337	2/24/98	582	RTA00000414F.e.14.1	M00005236B:F10	0
1338	2/24/98	583	RTA00000406F.i.17.1	M00003904B:C03	37902
1339	2/24/98	584	RTA00000418F.d.22.1	M00001573B:C06	75324
1340	2/24/98	585	RTA00000340R.o.12.1	M00003746C:E02	53732
1341	2/24/98	586	RTA00000125A.g.24.1	M00001544A:F05	80397
1342	2/24/98	587	RTA00000130A.o.21.1	M00001623A:F04	80218
1343	2/24/98	588	RTA00000420F.a.23.1	M00004078B:F12	42158
1344	2/24/98	589	RTA00000411F.m.18.1	M00003868D:D09	75629
1345	2/24/98	590	RTA00000407F.b.22.1	M00004108B:B02	37487
1346	2/24/98	591	RTA00000409F.a.16.1	M00001583A:A05	73990
1347	2/24/98	592	RTA00000421F.p.18.1	M00003877B:H10	750
1348	2/24/98	593	RTA00000341F.k.12.1	M00004103C:D04	62985
1349	2/24/98	594	RTA00000129A.c.18.2	M00001587A:B10	37216
1350	2/24/98	595	RTA00000410F.d.10.1	M00001635B:H02	77561
1351	2/24/98	596	RTA00000351R.i.03.1	M00003846B:D06	6874
1352	2/24/98	597	RTA00000135A.l.1.2	M00001545A:B10	39426
1353	2/24/98	598	RTA00000420F.b.18.1	M00004086D:G08	66136
1354	2/24/98	599	RTA00000401F.k.14.1	M00003903A:H09	211
1355	2/24/98	600	RTA00000406F.m.04.1	M00003914B:A11	14959
1356	2/24/98	601	RTA00000403F.o.13.1	M00001579D:F04	39049
1357	2/24/98	602	RTA00000411F.f.06.1	M00003813B:E09	64186
1358	2/24/98	603	RTA00000399F.o.19.1	M00001607A:F11	2594
1359	2/24/98	604	RTA00000351R.c.13.1	M00003747D:C05	11476
1360	2/24/98	605	RTA00000403F.c.14.1	M00001457D:A07	0
1361	2/24/98	606	RTA00000420F.l.20.2	M00005232A:C10	0
1362	2/24/98	607	RTA00000420F.d.16.1	M00004103D:F10	64485
1363	2/24/98	608	RTA00000404F.i.12.1	M00001620D:G11	39001
1364	2/24/98	609	RTA00000404F.o.10.2	M00001651B:B12	16785
1365	2/24/98	610	RTA00000419F.d.07.1	M00003820B:D10	21421
1366	2/24/98	611	RTA00000404F.p.02.2	M00001652D:A06	39097
1367	2/24/98	612	RTA00000125A.k.14.1	M00001545A:G05	79457
1368	2/24/98	613	RTA00000122A.j.22.1	M00001516A:F06	81151
1369	2/24/98	614	RTA00000406F.i.13.1	M00003904A:C04	37904
1370	2/24/98	615	RTA00000135A.b.23.1	M00001538A:D12	35241
1371	2/24/98	616	RTA00000423F.c.11.1	M00001677D:B02	0
1372	2/24/98	617	RTA00000423F.f.23.1	M00003816C:E09	15390
1373	2/24/98	618	RTA00000423F.l.04.1	M00004039B:G08	14320
1374	2/24/98	619	RTA00000420F.b.04.1	M00004081A:E02	63820
1375	2/24/98	620	RTA00000420F.a.07.1	M00004072C:F08	63405
1376	2/24/98	621	RTA00000408F.i.18.2	M00001482C:D02	74410
1377	2/24/98	622	RTA00000404F.l.07.1	M00001637C:C06	10798
1378	2/24/98	623	RTA00000341F.j.05.1	M00003963D:B05	36177
1379	2/24/98	624	RTA00000420F.a.16.1	M00004075D:C10	63345
1380	2/24/98	625	RTA00000126A.h.22.2	M00001549A:F01	0
1381	2/24/98	626	RTA00000410F.j.01.1	M00001641B:F12	73399
1382	2/24/98	627	RTA00000408F.p.21.1	M00001579A:C03	77930
1383	2/24/98	628	RTA00000412F.d.19.1	M00003907B:C03	75743
1384	2/24/98	629	RTA00000352R.c.04.1	M00003924A:D08	71976
1385	2/24/98	630	RTA00000413F.f.19.1	M00004100B:C07	65189

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1386	2/24/98	631	RTA00000411F.e.03.1	M00001694D:C12	73648
1387	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
1387	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
1388	2/24/98	633	RTA00000341F.d.02.1	M00003797A:G03	4706
1389	2/24/98	634	RTA00000418F.c.04.1	M00001487B:A11	41587
1390	2/24/98	635	RTA00000418F.o.17.1	M00001661B:F03	79069
1391	2/24/98	636	RTA00000418F.e.21.1	M00001577B:A03	74773
1392	2/24/98	637	RTA00000419F.d.14.1	M00003828A:D05	64945
1393	2/24/98	638	RTA00000418F.b.09.1	M00001478B:H08	19700
1394	2/24/98	639	RTA00000414F.d.09.1	M00005231C:B01	0
1395	2/24/98	640	RTA00000405F.f.02.1	M00001669B:G02	38665
1396	2/24/98	641	RTA00000410F.j.20.1	M00001642D:G10	73601
1397	2/24/98	642	RTA00000341F.h.19.1	M00003916C:C05	0
1398	2/24/98	643	RTA00000420F.l.14.2	M00005230D:F06	0
1399	2/24/98	644	RTA00000119A.j.9.1	M00001460A:B12	82060
1400	2/24/98	645	RTA00000422F.p.12.2	M00001661C:F10	9840
1401	2/24/98	646	RTA00000421F.m.14.1	M00001642A:F03	3524
1402	2/24/98	647	RTA00000418F.b.23.1	M00001485A:C05	28767
1403	2/24/98	648	RTA00000340F.i.13.1	M00001624B:B10	79299
1404	2/24/98	649	RTA00000412F.g.03.1	M00003971B:A10	64740
1405	2/24/98	650	RTA00000122A.g.17.1	M00001514A:B08	32655
1406	2/24/98	651	RTA00000403F.g.11.1	M00001481A:H08	24238
1407	2/24/98	652	RTA00000419F.n.12.1	M00003977D:A03	66086
1408	2/24/98	653	RTA00000352R.m.12.1	M00004212B:C07	2379
1409	2/24/98	654	RTA00000421F.a.05.1	M00001570C:G06	5278
1410	2/24/98	655	RTA00000351R.p.14.1	M00003915C:H04	13166
1411	2/24/98	656	RTA00000403F.e.08.1	M00001473D:B11	19126
1412	2/24/98	657	RTA00000124A.k.20.1	M00001538A:C08	80913
1413	2/24/98	658	RTA00000121A.n.2.1	M00001511A:A05	33585
1414	2/24/98	659	RTA00000422F.m.24.1	M00001641D:C04	39159
1415	2/24/98	660	RTA00000408F.e.24.2	M00001476C:C11	75002
1416	2/24/98	661	RTA00000341F.l.16.1	M00003986D:C08	8479
1417	2/24/98	662	RTA00000339F.o.07.1	M00001473D:G01	2566
1418	2/24/98	663	RTA00000403F.b.12.1	M00001455D:A06	78775
1419	2/24/98	664	RTA00000404F.a.09.1	M00001589C:E06	38985
1420	2/24/98	665	RTA00000419F.p.20.1	M00004039A:C03	9458
1421	2/24/98	666	RTA00000403F.o.19.1	M00001582D:F02	78615
1422	2/24/98	667	RTA00000405F.h.07.2	M00001674A:G11	4984
1423	2/24/98	668	RTA00000408F.m.05.2	M00001530C:G10	23384
1424	2/24/98	669	RTA00000410F.b.10.1	M00001633C:B09	74504
1425	2/24/98	670	RTA00000131A.i.6.1	M00001450A:B08	0
1426	2/24/98	671	RTA00000413F.h.12.1	M00004107A:A12	66929
1427	2/24/98	672	RTA00000406F.k.14.1	M00003907C:C02	38651
1428	2/24/98	673	RTA00000406F.d.09.1	M00003875B:F12	38591
1429	2/24/98	674	RTA00000411F.f.17.1	M00003814B:F12	65661
1430	2/24/98	675	RTA00000411F.k.10.1	M00003850D:H11	64506
1431	2/24/98	676	RTA00000411F.g.21.1	M00003823D:G05	64500
1432	2/24/98	677	RTA00000119A.h.24.1	M00001457A:C05	82266
1433	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
1433	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1434	2/24/98	679	RTA00000408F.m.22.2	M00001539A:C12	72949
1435	2/24/98	680	RTA00000345F.e.11.1	M00001391C:C04	4392
1436	2/24/98	681	RTA00000120A.c.24.1	M00001464A:D03	34278
1437	2/24/98	682	RTA00000410F.i.17.1	M00001641B:B01	78147
1438	2/24/98	683	RTA00000403F.j.21.1	M00001540D:E02	24723
1439	2/24/98	684	RTA00000339F.k.20.1	M00001426D:D12	6662
1440	2/24/98	685	RTA00000129A.a.13.2	M00001582A:A03	79780
1441	2/24/98	686	RTA00000129A.k.21.1	M00001601A:E12	82067
1442	2/24/98	687	RTA00000350R.g.10.1	M00001587C:C10	9026
1443	2/24/98	688	RTA00000413F.d.23.1	M00004090B:H06	66030
1444	2/24/98	689	RTA00000419F.p.03.1	M00004035A:G10	1937
1445	2/24/98	690	RTA00000341F.b.05.1	M00003793D:A11	0
1446	2/24/98	691	RTA00000354R.n.08.1	M00003835A:A09	8802
1447	2/24/98	692	RTA00000411F.d.10.1	M00001681D:C12	76445
1448	2/24/98	693	RTA00000404F.b.19.1	M00001592B:A04	39281
1449	2/24/98	694	RTA00000418F.c.07.1	M00001529D:C05	73245
1450	2/24/98	695	RTA00000418F.j.15.1	M00001632C:H07	74855
1451	2/24/98	696	RTA00000404F.p.12.2	M00001653B:C06	0
1452	2/24/98	697	RTA00000412F.d.14.1	M00003905D:C08	76757
1453	2/24/98	698	RTA00000413F.b.16.1	M00004078A:E05	65126
1454	2/24/98	699	RTA00000340F.l.05.1	M00001644B:D06	38935
1455	2/24/98	700	RTA00000350R.m.14.1	M00001644C:B07	39171
1456	2/24/98	701	RTA00000418F.l.11.1	M00001641C:H07	77158
1457	2/24/98	702	RTA00000130A.d.5.1	M00001605A:H03	82051
1458	2/24/98	703	RTA00000339F.n.05.1	M00001449D:B01	39648
1459	2/24/98	704	RTA00000355R.a.12.1	M00004159C:F09	36756
1460	2/24/98	705	RTA00000407F.a.23.1	M00004081C:A10	23489
1461	2/24/98	706	RTA00000403F.a.09.1	M00001448B:H05	77820
1462	2/24/98	707	RTA00000403F.h.11.1	M00001483B:D04	39219
1463	2/24/98	708	RTA00000406F.j.13.1	M00003905D:B08	38688
1464	2/24/98	709	RTA00000352R.p.09.1	M00004228C:H03	16915
1465	2/24/98	710	RTA00000413F.g.24.1	M00004104D:A04	65481
1466	2/24/98	711	RTA00000404F.l.03.2	M00001636B:G11	40272
1467	2/24/98	712	RTA00000407F.b.18.1	M00004102C:D09	37569
1468	2/24/98	713	RTA00000414F.b.10.1	M00005212D:D09	0
1469	2/24/98	714	RTA00000420F.a.08.1	M00004073A:D10	19473
1470	2/24/98	715	RTA00000418F.b.01.1	M00001475C:G11	76040
1471	2/24/98	716	RTA00000420F.l.03.2	M00005217D:F12	0
1472	2/24/98	717	RTA00000404F.i.22.1	M00001625C:G05	39082
1473	2/24/98	718	RTA00000124A.k.23.1	M00001538A:D03	81350
1474	2/24/98	719	RTA00000404F.e.11.1	M00001608C:E11	38991
1475	2/24/98	720	RTA00000129A.d.2.4	M00001587A:G06	80119
1476	2/24/98	721	RTA00000422F.k.14.1	M00001649D:A08	0
1477	2/24/98	722	RTA00000411F.l.22.1	M00003858B:G05	64439
1478	2/24/98	723	RTA00000419F.o.15.1	M00003989C:D03	32487
1479	2/24/98	724	RTA00000119A.m.17.1	M00001461A:F05	79536
1480	2/24/98	725	RTA00000410F.b.07.1	M00001633C:A05	78916
1481	2/24/98	726	RTA00000420F.b.19.1	M00004088D:A11	36873
1482	2/24/98	727	RTA00000414F.d.02.1	M00005229B:H06	0
1483	2/24/98	728	RTA00000411F.b.21.1	M00001677B:A02	10051

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1484	2/24/98	729	RTA00000403F.m.20.1	M00001576A:F11	707
1485	2/24/98	730	RTA00000356R.c.16.1	M00004294C:C08	16915
1486	2/24/98	731	RTA00000119A.d.17.1	M00001453A:B01	0
1487	2/24/98	732	RTA00000412F.h.11.1	M00003974B:B11	63175
1488	2/24/98	733	RTA00000405F.d.18.1	M00001662C:B02	10494
1489	2/24/98	734	RTA00000414F.e.09.1	M00005236A:G10	0
1490	2/24/98	735	RTA00000420F.a.11.1	M00004073C:D04	66460
1491	2/24/98	736	RTA00000120A.c.7.1	M00001462A:D03	80985
1492	2/24/98	737	RTA00000404F.e.15.1	M00001609B:C09	39101
1493	2/24/98	738	RTA00000422F.n.20.1	M00001669B:B12	38676
1494	2/24/98	739	RTA00000423F.h.20.1	M00003914A:G06	38639
1495	2/24/98	740	RTA00000399F.l.19.1	M00001590D:G07	40145
1496	2/24/98	741	RTA00000414F.b.12.1	M00005212D:H01	0
1497	2/24/98	742	RTA00000410F.b.18.1	M00001633C:H11	76701
1498	2/24/98	743	RTA00000345F.i.08.1	M00001449D:G10	0
1499	2/24/98	744	RTA00000423F.g.15.1	M00003905A:F09	35173
1500	2/24/98	745	RTA00000413F.b.04.1	M00004076D:H07	66427
1501	2/24/98	746	RTA00000345F.e.02.1	M00001395A:E03	0
1502	2/24/98	747	RTA00000413F.n.24.1	M00004960C:E10	0
1503	2/24/98	748	RTA00000346F.f.11.1	M00003793C:D09	38528
1504	2/24/98	749	RTA00000351R.i.13.1	M00003858D:F12	0
1505	2/24/98	750	RTA00000403F.c.05.1	M00001456C:C11	74935
1506	2/24/98	751	RTA00000422F.i.02.1	M00001456C:B12	76436
1507	2/24/98	752	RTA00000410F.a.08.1	M00001632A:B10	73324
1508	2/24/98	753	RTA00000345F.o.13.1	M00001546B:F12	11500
1509	2/24/98	754	RTA00000419F.e.02.1	M00003830C:A03	65010
1510	2/24/98	755	RTA00000423F.d.17.1	M00001663A:C11	20630
1511	2/24/98	756	RTA00000403F.g.13.1	M00001481B:D09	38718
1512	2/24/98	757	RTA00000423F.h.13.1	M00003871A:B09	14398
1513	2/24/98	758	RTA00000407F.a.01.1	M00004039A:H11	12501
1514	2/24/98	759	RTA00000399F.o.06.1	M00001595D:G03	13574
1515	2/24/98	760	RTA00000423F.d.04.1	M00001694A:B12	11307
1516	2/24/98	761	RTA00000411F.f.14.1	M00003814B:C12	62984
1517	2/24/98	762	RTA00000411F.c.04.1	M00001677B:E06	76858
1518	2/24/98	763	RTA00000135A.m.18.1	M00001545A:C03	19255
1519	2/24/98	764	RTA00000413F.c.17.1	M00004085B:B05	36831
1520	2/24/98	765	RTA00000137A.j.15.4	M00001559A:C08	4213
1521	2/24/98	766	RTA00000404F.j.01.1	M00001625D:G10	26859
1522	2/24/98	767	RTA00000138A.p.10.1	M00001644A:H01	81625
1523	2/24/98	768	RTA00000121A.k.5.1	M00001507A:E04	17530
1524	2/24/98	769	RTA00000340F.i.10.1	M00001618A:F10	38561
1525	2/24/98	770	RTA00000421F.f.05.1	M00001477B:E02	5266
1526	2/24/98	771	RTA00000423F.h.07.1	M00003911B:F08	37933
1527	2/24/98	772	RTA00000413F.e.04.1	M00004090C:C07	64176
1528	2/24/98	773	RTA00000406F.h.03.1	M00003901B:A09	38585
1529	2/24/98	774	RTA00000403F.e.24.1	M00001476B:D10	16432
1530	2/24/98	775	RTA00000405F.c.22.1	M00001660C:B06	39053
1531	2/24/98	776	RTA00000403F.i.11.1	M00001485D:E05	23535
1532	2/24/98	777	RTA00000419F.g.02.1	M00003842A:A03	62839
1533	2/24/98	778	RTA00000347F.e.05.1	M00001578D:C04	39814

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1534	2/24/98	779	RTA00000408F.l.16.1	M00001530A:F12	73468
1535	2/24/98	780	RTA00000405F.l.11.1	M00001693D:E08	2055
1536	2/24/98	781	RTA00000423F.f.09.1	M00003808C:A05	64823
1537	2/24/98	782	RTA00000419F.k.03.1	M00003871C:B05	40822
1538	2/24/98	783	RTA00000406F.b.02.1	M00003867B:G08	38744
1539	2/24/98	784	RTA00000418F.o.14.1	M00001661B:B05	33524
1540	2/24/98	785	RTA00000404F.l.03.1	M00001636B:G11	40272
1541	2/24/98	786	RTA00000404F.b.09.1	M00001591D:C07	39166
1542	2/24/98	787	RTA00000345F.i.24.1	M00001449C:C05	0
1543	2/24/98	788	RTA00000419F.i.04.1	M00003860B:F11	65791
1544	2/24/98	789	RTA00000423F.b.13.1	M00001676C:E07	20619
1545	2/24/98	790	RTA00000345F.n.08.1	M00001517A:B11	0
1546	2/24/98	791	RTA00000399F.n.15.1	M00001594D:C03	3213
1547	2/24/98	792	RTA00000406F.k.11.1	M00003907B:D05	38715
1548	2/24/98	793	RTA00000414F.e.21.1	M00005257C:G01	0
1549	2/24/98	794	RTA00000406F.c.06.1	M00003870C:A01	37924
1550	2/24/98	795	RTA00000418F.n.07.1	M00001658B:A07	76316
1551	2/24/98	796	RTA00000419F.n.15.1	M00003977D:D04	63484
1552	2/24/98	797	RTA00000408F.n.06.2	M00001539A:H12	76642
1553	2/24/98	798	RTA00000420F.c.04.1	M00004089A:B08	65007
1554	2/24/98	799	RTA00000411F.j.15.1	M00003843A:E04	66871
1555	2/24/98	800	RTA00000403F.m.12.1	M00001575D:A02	16933
1556	2/24/98	801	RTA00000128A.m.23.1	M00001561A:D01	81441
1557	2/24/98	802	RTA00000406F.g.03.1	M00003880B:D11	38690
1558	2/24/98	803	RTA00000405F.h.05.2	M00001674A:G07	75706
1559	2/24/98	804	RTA00000129A.n.24.1	M00001604A:C07	81409
1560	2/24/98	805	RTA00000406F.j.08.1	M00003905B:C06	6688
1561	2/24/98	806	RTA00000345F.f.08.1	M00001413B:H09	0
1562	2/24/98	807	RTA00000418F.n.11.1	M00001658D:G12	78977
1563	2/24/98	808	RTA00000418F.p.08.1	M00001669D:D06	73983
1564	2/24/98	809	RTA00000420F.i.23.1	M00005134A:D11	0
1565	2/24/98	810	RTA00000120A.h.9.1	M00001465A:B12	80736
1566	2/24/98	811	RTA00000413F.a.12.1	M00004072D:F09	63403
1567	2/24/98	812	RTA00000412F.o.05.1	M00004034A:A01	63575
1568	2/24/98	813	RTA00000346F.o.06.1	M00004136D:B02	4937
1569	2/24/98	814	RTA00000408F.l.24.1	M00001530B:G09	34263
1570	2/24/98	815	RTA00000403F.a.17.1	M00001448D:E12	13686
1571	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
1572	2/24/98	817	RTA00000420F.l.08.2	M00005228C:C05	0
1573	2/24/98	818	RTA00000406F.h.05.1	M00003901B:C03	38542
1574	2/24/98	819	RTA00000410F.b.24.1	M00001633D:D09	75104
1575	2/24/98	820	RTA00000423F.d.11.1	M00001678C:C06	38950
1576	2/24/98	821	RTA00000420F.h.16.1	M00004927A:E06	0
1577	2/24/98	822	RTA00000419F.o.21.1	M00004031A:E01	10336
1578	2/24/98	823	RTA00000119A.k.1.1	M00001460A:H11	81282
1579	2/24/98	824	RTA00000420F.f.07.1	M00004119A:C09	66312
1580	2/24/98	825	RTA00000404F.k.22.2	M00001635D:C12	39084
1581	2/24/98	826	RTA00000422F.e.07.1	M00001579C:G05	38964
1582	2/24/98	827	RTA00000410F.f.12.1	M00001637C:E03	73883
1583	2/24/98	828	RTA00000419F.n.05.1	M00003976C:D06	63713

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1584	2/24/98	829	RTA00000411F.m.11.1	M00003867A:D12	73196
1585	2/24/98	830	RTA00000347F.b.08.1	M00001541B:E05	17591
1586	2/24/98	831	RTA00000420F.d.21.1	M00004107B:B04	65313
1587	2/24/98	832	RTA00000403F.o.10.2	M00001579C:G05	38964
1588	2/24/98	833	RTA00000420F.j.20.1	M00005140D:C06	0
1589	2/24/98	834	RTA00000407F.b.11.1	M00004090C:C10	0
1590	2/24/98	835	RTA00000413F.c.10.1	M00004083B:C01	65600
1591	2/24/98	836	RTA00000411F.b.17.1	M00001676D:B02	72893
1592	2/24/98	837	RTA00000420F.h.01.1	M00004897C:D06	0
1593	2/24/98	838	RTA00000408F.k.19.1	M00001487C:G03	77593
1594	2/24/98	839	RTA00000414F.b.01.1	M00005212B:A02	0
1595	2/24/98	840	RTA00000420F.b.20.1	M00004088D:B05	0
1596	2/24/98	841	RTA00000119A.i.8.1	M00001457A:G12	82593
1597	2/24/98	842	RTA00000401F.n.23.1	M00003982A:B06	1552
1598	2/24/98	843	RTA00000418F.g.03.1	M00001579C:E06	78737
1599	2/24/98	844	RTA00000411F.a.09.1	M00001675C:F01	78629
1600	2/24/98	845	RTA00000348R.b.04.1	M00001342B:E01	1890
1601	2/24/98	846	RTA00000419F.j.11.1	M00003868C:C07	73183
1602	2/24/98	847	RTA00000403F.l.11.1	M00001571D:F05	25073
1603	2/24/98	848	RTA00000404F.n.18.2	M00001649C:E11	37169
1604	2/24/98	849	RTA00000122A.n.16.1	M00001517A:G08	80553
1605	2/24/98	850	RTA00000420F.c.07.1	M00004089A:E02	65555
1606	2/24/98	851	RTA00000423F.d.07.1	M00001678B:B12	0
1607	2/24/98	852	RTA00000414F.f.03.1	M00005257D:G07	0
1608	2/24/98	853	RTA00000408F.j.13.2	M00001485B:D10	42275
1609	2/24/98	854	RTA00000345F.a.07.1	M00001338C:E10	0
1610	2/24/98	855	RTA00000423F.a.01.1	M00001659C:F10	39103
1611	2/24/98	856	RTA00000408F.d.02.1	M00001458D:A01	79169
1612	2/24/98	857	RTA00000404F.e.09.1	M00001608B:A09	39121
1613	2/24/98	858	RTA00000341F.e.20.1	M00003891D:B10	67422
1614	2/24/98	859	RTA00000419F.m.22.1	M00003914A:G09	75600
1615	2/24/98	860	RTA00000419F.m.23.1	M00003958B:E11	64263
1616	2/24/98	861	RTA00000419F.b.06.1	M00001694B:B08	76728
1617	2/24/98	862	RTA00000414F.c.07.1	M00005216A:H01	0
1618	2/24/98	863	RTA00000406F.p.08.1	M00004032C:B02	37573
1619	2/24/98	864	RTA00000129A.n.17.1	M00001604A:A09	79811
1620	2/24/98	865	RTA00000414F.c.03.1	M00005216A:D09	0
1621	2/24/98	866	RTA00000407F.b.08.1	M00004088D:B03	37513
1622	2/24/98	867	RTA00000339F.l.21.1	M00001455D:D11	9781
1623	2/24/98	868	RTA00000406F.i.08.1	M00003903C:E12	37946
1624	2/24/98	869	RTA00000403F.h.07.1	M00001482D:H11	26856
1625	2/24/98	870	RTA00000418F.n.24.1	M00001659D:C09	73153
1626	2/24/98	871	RTA00000403F.f.23.1	M00001479C:E01	39223
1627	2/24/98	872	RTA00000409F.l.20.1	M00001615B:G01	74394
1628	2/24/98	873	RTA00000418F.l.06.1	M00001641C:F01	73317
1629	2/24/98	874	RTA00000346F.o.22.1	M00004300C:H09	7381
1630	2/24/98	875	RTA00000129A.k.22.1	M00001601A:E02	79639
1631	2/24/98	876	RTA00000423F.d.16.1	M00001678D:C11	39173
1632	2/24/98	877	RTA00000418F.m.22.1	M00001654D:E12	74567
1633	2/24/98	878	RTA00000413F.c.12.1	M00004083B:G03	65334

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1634	2/24/98	879	RTA00000409F.b.19.1	M00001584D:H02	14479
1635	2/24/98	880	RTA00000418F.g.20.1	M00001585B:C03	74626
1636	2/24/98	881	RTA00000413F.d.15.1	M00004088C:E04	64943
1637	2/24/98	882	RTA00000355R.c.03.1	M00004244C:G07	3986
1638	2/24/98	883	RTA00000406F.c.09.1	M00003870C:E10	5671
1639	2/24/98	884	RTA00000412F.c.10.1	M00003903C:C04	76372
1640	2/24/98	885	RTA00000122A.j.17.1	M00001516A:D02	62736
1641	2/24/98	886	RTA00000420F.m.15.1	M00005235B:F10	0
1642	2/24/98	887	RTA00000339F.p.06.1	M00001484A:A10	4880
1643	2/24/98	888	RTA00000339R.c.04.1	M00001362D:H01	1805
1644	2/24/98	889	RTA00000346F.b.16.1	M00001615C:G05	16485
1645	2/24/98	890	RTA00000418F.j.19.1	M00001634D:D02	78399
1646	2/24/98	891	RTA00000137A.p.12.1	M00001587A:B01	80614
1647	2/24/98	892	RTA00000339F.m.17.1	M00001453B:H12	20854
1648	2/24/98	893	RTA00000418F.p.10.1	M00001669D:F05	75323
1649	2/24/98	894	RTA00000408F.k.12.1	M00001486B:D07	77246
1650	2/24/98	895	RTA00000137A.j.11.4	M00001559A:A11	79752
1651	2/24/98	896	RTA00000423F.l.20.1	M00004105C:E09	12580
1652	2/24/98	897	RTA00000419F.n.24.1	M00003980A:F04	65995
1653	2/24/98	898	RTA00000418F.l.03.1	M00001641C:C06	79058
1654	2/24/98	899	RTA00000406F.h.10.1	M00003901C:F09	22732
1655	2/24/98	900	RTA00000419F.m.13.1	M00003908A:F12	79052
1656	2/24/98	901	RTA00000418F.j.14.1	M00001632C:B10	32623
1657	2/24/98	902	RTA00000403F.a.10.1	M00001448C:E11	73952
1658	2/24/98	903	RTA00000420F.a.21.1	M00004078B:C11	66241
1659	2/24/98	904	RTA00000127A.e.6.1	M00001553A:E07	5885
1660	2/24/98	905	RTA00000405F.g.21.2	M00001673B:F07	38966
1661	2/24/98	906	RTA00000405F.g.21.1	M00001673B:F07	38966
1662	2/24/98	907	RTA00000419F.m.06.1	M00003906C:D06	75749
1663	2/24/98	908	RTA00000423F.g.03.1	M00003905C:G11	38007
1664	2/24/98	909	RTA00000420F.i.04.1	M00004959D:H12	0
1665	2/24/98	910	RTA00000418F.f.03.1	M00001577B:F10	78911
1666	2/24/98	911	RTA00000406F.p.13.1	M00004034C:G02	8584
1667	2/24/98	912	RTA00000404F.g.13.1	M00001614C:E06	9436
1668	2/24/98	913	RTA00000120A.c.20.1	M00001464A:B07	43235
1669	2/24/98	914	RTA00000138A.m.15.1	M00001624A:A03	41603
1670	2/24/98	915	RTA00000408F.f.14.2	M00001476D:F03	73024
1671	2/24/98	916	RTA00000418F.p.20.1	M00001677D:B07	78023
1672	2/24/98	917	RTA00000423F.e.21.1	M00003806B:G05	66961
1673	2/24/98	918	RTA00000419F.j.22.1	M00003871A:A02	73525
1674	2/24/98	919	RTA00000410F.d.18.1	M00001635D:D05	75458
1675	2/24/98	920	RTA00000403F.b.24.1	M00001456B:G01	78838
1676	2/24/98	921	RTA00000422F.j.02.1	M00001594D:B08	10368
1677	2/24/98	922	RTA00000410F.e.09.1	M00001636A:F08	76093
1678	2/24/98	923	RTA00000126A.d.19.1	M00001548A:G01	79474
1679	2/24/98	924	RTA00000354R.m.02.1	M00003890B:C08	12766
1680	2/24/98	925	RTA00000353R.h.10.1	M00001390C:C11	39498
1681	2/24/98	926	RTA00000399F.k.20.1	M00001585C:D10	3003
1682	2/24/98	927	RTA00000411F.d.21.1	M00001692B:E01	74794
1683	2/24/98	928	RTA00000340F.m.04.1	M00001679B:H07	19406

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1684	2/24/98	929	RTA00000411F.n.09.1	M00003875A:A07	78962
1685	2/24/98	930	RTA00000127A.h.22.2	M00001554A:E04	13155
1686	2/24/98	931	RTA00000420F.e.09.1	M00004108D:E07	66325
1687	2/24/98	932	RTA00000405F.p.03.1	M00003844A:A11	11346
1688	2/24/98	933	RTA00000419F.a.18.1	M00001680A:B02	78484
1689	2/24/98	934	RTA00000414F.e.01.1	M00005233D:H07	0
1690	2/24/98	935	RTA00000420F.i.07.1	M00004960A:B08	0
1691	2/24/98	936	RTA00000121A.n.23.1	M00001511A:G01	26981
1692	2/24/98	937	RTA00000121A.n.15.1	M00001511A:G08	40849
1693	2/24/98	938	RTA00000403F.i.23.1	M00001487B:E10	11364
1694	2/24/98	939	RTA00000405F.a.03.1	M00001654C:E04	39065
1695	2/24/98	940	RTA00000414F.f.17.1	M00005260A:F04	0
1696	2/24/98	941	RTA00000419F.p.08.1	M00004036D:B04	65560
1697	2/24/98	942	RTA00000126A.n.6.2	M00001551A:D04	79917
1698	2/24/98	943	RTA00000413F.c.03.1	M00004081D:H09	64527
1699	2/24/98	944	RTA00000422F.k.24.1	M00001610C:E06	39118
1700	2/24/98	945	RTA00000412F.c.17.1	M00003905A:A06	75620
1701	2/24/98	946	RTA00000414F.b.07.1	M00005212C:D02	0
1702	2/24/98	947	RTA00000347F.g.08.1	M00004096B:F05	23121
1703	2/24/98	948	RTA00000419F.o.06.1	M00003986C:D09	64643
1704	2/24/98	949	RTA00000340R.j.07.1	M00001654C:D05	38954
1705	2/24/98	950	RTA00000423F.j.02.1	M00003903B:C02	38617
1706	2/24/98	951	RTA00000419F.c.04.1	M00003815C:D12	63749
1707	2/24/98	952	RTA00000411F.a.01.1	M00001675B:D02	74524
1708	2/24/98	953	RTA00000406F.f.05.1	M00003878C:F06	22961
1709	2/24/98	954	RTA00000410F.n.05.1	M00001662A:C07	77830
1710	2/24/98	955	RTA00000404F.e.06.1	M00001607D:F06	39315
1711	2/24/98	956	RTA00000423F.l.06.1	M00004062A:H06	38136
1712	2/24/98	957	RTA00000411F.c.03.1	M00001677B:B06	79280
1713	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
1713	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
1714	2/24/98	959	RTA00000340F.g.20.1	M00001609D:G10	4089
1715	2/24/98	960	RTA00000404F.l.19.2	M00001639B:H01	16196
1716	2/24/98	961	RTA00000420F.n.21.2	M00005259B:D12	0
1717	2/24/98	962	RTA00000404F.p.05.2	M00001652D:E09	1896
1718	2/24/98	963	RTA00000405F.l.07.1	M00001693C:E09	38636
1719	2/24/98	964	RTA00000423F.l.15.1	M00004075B:G09	11219
1720	2/24/98	965	RTA00000411F.n.06.1	M00003871D:E11	73886
1721	2/24/98	966	RTA00000422F.k.15.1	M00001594A:G09	19253
1722	2/24/98	967	RTA00000406F.h.16.1	M00003902B:D06	38618
1723	2/24/98	968	RTA00000419F.f.24.1	M00003841B:E06	18717
1724	2/24/98	969	RTA00000411F.d.18.1	M00001692A:G06	76063
1725	2/24/98	970	RTA00000414F.e.15.1	M00005236B:G03	0
1726	2/24/98	971	RTA00000411F.i.11.1	M00003837C:E05	66849
1727	2/24/98	972	RTA00000408F.d.15.1	M00001459B:C11	78467
1728	2/24/98	973	RTA00000339F.b.22.1	M00001373D:B03	6867
1729	2/24/98	974	RTA00000340F.h.07.1	M00001608D:D11	19254
1730	2/24/98	975	RTA00000411F.n.02.1	M00003870B:F04	78049
1731	2/24/98	976	RTA00000419F.b.17.1	M00003808D:D04	63261
1732	2/24/98	977	RTA00000350R.p.12.1	M00001657C:C07	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1733	2/24/98	978	RTA00000130A.e.20.1	M00001606A:H09	79502
1734	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
1735	2/24/98	980	RTA00000411F.i.13.1	M00003837C:F10	66138
1736	2/24/98	981	RTA00000420F.e.20.1	M00004110B:A07	64762
1737	2/24/98	982	RTA00000126A.p.23.2	M00001552A:F06	80915
1738	2/24/98	983	RTA00000423F.f.11.1	M00003809A:H04	0
1739	2/24/98	984	RTA00000406F.g.08.1	M00003880C:H03	37963
1740	2/24/98	985	RTA00000409F.a.08.1	M00001582D:B01	74978
1741	2/24/98	986	RTA00000406F.d.24.1	M00003876B:C05	37997
1742	2/24/98	987	RTA00000422F.b.22.1	M00004117B:A12	2368
1743	2/24/98	988	RTA00000407F.a.22.1	M00004081A:G01	15570
1744	2/24/98	989	RTA00000418F.i.12.1	M00001592A:E02	78971
1745	2/24/98	990	RTA00000121A.h.19.1	M00001471A:D04	80334
1746	2/24/98	991	RTA00000419F.b.10.1	M00001694C:G04	78566
1747	2/24/98	992	RTA00000406F.m.10.1	M00003914D:B02	38004
1748	2/24/98	993	RTA00000406F.o.05.1	M00003985B:G04	37894
1749	2/24/98	994	RTA00000408F.b.04.2	M00001455A:F04	39933
1750	2/24/98	995	RTA00000411F.k.04.1	M00003850D:A05	65407
1751	2/24/98	996	RTA00000423F.j.03.1	M00003903B:D03	5391
1752	2/24/98	997	RTA00000134A.l.9.1	M00001535A:D10	81814
1753	2/24/98	998	RTA00000341F.g.22.1	M00003914D:D10	0
1754	2/24/98	999	RTA00000418F.k.04.1	M00001637A:A03	75864
1755	2/24/98	1000	RTA00000351R.j.21.1	M00003859D:C05	31604
1756	2/24/98	1001	RTA00000413F.p.07.2	M00005102C:D03	0
1757	2/24/98	1002	RTA00000419F.p.18.1	M00004038D:G06	63002
1758	2/24/98	1003	RTA00000420F.k.08.2	M00005176C:C09	0
1759	2/24/98	1004	RTA00000419F.a.24.1	M00001680B:D02	79290
1760	2/24/98	1005	RTA00000339F.e.17.1	M00001397D:G08	7568
1761	2/24/98	1006	RTA00000129A.e.14.1	M00001587A:F08	80053
1762	2/24/98	1007	RTA00000404F.a.01.1	M00001589B:B08	19251
1763	2/24/98	1008	RTA00000414F.f.07.1	M00005259C:B05	0
1764	2/24/98	1009	RTA00000399F.o.24.1	M00001607D:A11	2272
1765	2/24/98	1010	RTA00000408F.n.16.2	M00001540C:B03	73720
1766	2/24/98	1011	RTA00000400F.c.04.1	M00001618A:F08	6445
1767	2/24/98	1012	RTA00000403F.g.06.1	M00001480C:A05	10505
1768	2/24/98	1013	RTA00000404F.b.18.1	M00001592A:H05	13669
1769	2/24/98	1014	RTA00000412F.l.14.1	M00004029B:F01	62792
1770	2/24/98	1015	RTA00000129A.b.6.2	M00001582A:H01	39111
1771	2/24/98	1016	RTA00000406F.n.12.1	M00003960A:G07	37517
1772	2/24/98	1017	RTA00000418F.e.03.1	M00001573B:G08	73442
1773	2/24/98	1018	RTA00000413F.j.21.1	M00004688A:A02	0
1774	2/24/98	1019	RTA00000403F.g.03.1	M00001479D:G06	23537
1775	2/24/98	1020	RTA00000412F.p.06.1	M00004038B:H10	65485
1776	2/24/98	1021	RTA00000419F.b.21.1	M00003809A:F01	65366
1777	2/24/98	1022	RTA00000401F.j.15.1	M00003901A:C09	3061
1778	2/24/98	1023	RTA00000404F.f.12.1	M00001611B:A05	39209
1779	2/24/98	1024	RTA00000351R.j.16.1	M00003857B:F07	64773
1780	2/24/98	1025	RTA00000118A.j.24.1	M00001450A:B03	18
1781	2/24/98	1026	RTA00000419F.f.18.1	M00003839D:E11	64047
1782	2/24/98	1027	RTA00000423F.i.16.1	M00003907D:A12	38604

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1783	2/24/98	1028	RTA00000346F.d.12.1	M00001676B:B09	11777
1784	2/24/98	1029	RTA00000411F.f.04.1	M00003813A:G04	64526
1785	2/24/98	1030	RTA00000125A.c.17.1	M00001542A:E04	80619
1786	2/24/98	1031	RTA00000404F.g.08.1	M00001613D:H10	38980
1787	2/24/98	1032	RTA00000423F.c.13.1	M00001678A:A11	39059
1788	2/24/98	1033	RTA00000414F.e.19.1	M00005257C:E05	0
1789	2/24/98	1034	RTA00000124A.f.16.3	M00001536A:F11	47430
1790	2/24/98	1035	RTA00000404F.k.15.1	M00001634A:B04	18225
1791	2/24/98	1036	RTA00000339F.k.08.1	M00001439B:A10	8133
1792	2/24/98	1037	RTA00000339F.l.12.1	M00001450A:G11	7711
1793	2/24/98	1038	RTA00000406F.b.01.1	M00003867B:G07	39006
1794	2/24/98	1039	RTA00000407F.c.08.1	M00004118D:B05	37549
1795	2/24/98	1040	RTA00000348R.o.12.1	M00001433C:F10	2263
1796	2/24/98	1041	RTA00000403F.b.05.1	M00001455B:E07	74300
1797	2/24/98	1042	RTA00000339F.g.10.1	M00001400C:D02	6327
1798	2/24/98	1043	RTA00000423F.b.17.1	M00001662B:F06	8200
1799	2/24/98	1044	RTA00000419F.n.11.1	M00003977C:B03	66477
1800	2/24/98	1045	RTA00000408F.j.05.2	M00001483C:G06	73878
1801	2/24/98	1046	RTA00000346F.j.06.1	M00003879A:A02	5767
1802	2/24/98	1047	RTA00000419F.c.14.1	M00003819B:G01	65727
1803	2/24/98	1048	RTA00000413F.o.07.2	M00005100A:C01	0
1804	2/24/98	1049	RTA00000405F.f.05.1	M00001669C:D09	14359
1805	2/24/98	1050	RTA00000405F.f.05.2	M00001669C:D09	14359
1806	2/24/98	1051	RTA00000346F.h.24.1	M00003797A:C11	4379
1807	2/24/98	1052	RTA00000420F.b.02.1	M00004081A:A08	64013
1808	2/24/98	1053	RTA00000413F.b.24.1	M00004080A:F01	65117
1809	2/24/98	1054	RTA00000412F.d.08.1	M00003905C:B02	75328
1810	2/24/98	1055	RTA00000346F.a.04.1	M00001607B:C05	5382
1811	2/24/98	1056	RTA00000419F.m.18.1	M00003908C:G09	76014
1812	2/24/98	1057	RTA00000419F.l.24.1	M00003904D:B10	74628
1813	2/24/98	1058	RTA00000408F.c.06.1	M00001456D:E08	78619
1814	2/24/98	1059	RTA00000405F.h.21.2	M00001675C:D12	39072
1815	2/24/98	1060	RTA00000346F.g.02.1	M00003792A:B10	6901
1816	2/24/98	1061	RTA00000405F.g.05.2	M00001671D:E10	38987
1817	2/24/98	1062	RTA00000411F.f.20.1	M00003816C:C01	63501
1818	2/24/98	1063	RTA00000132A.n.7.1	M00001466A:F08	0
1819	2/24/98	1064	RTA00000420F.d.19.1	M00004105C:C08	43146
1820	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
1820	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
1821	2/24/98	1066	RTA00000123A.f.2.1	M00001531A:H03	80379
1822	2/24/98	1067	RTA00000411F.j.11.1	M00003841D:F06	66154
1823	2/24/98	1068	RTA00000341F.f.03.1	M00003850A:F06	0
1824	2/24/98	1069	RTA00000346F.k.05.1	M00003904C:A08	0
1825	2/24/98	1070	RTA00000346F.n.22.1	M00004137A:D06	0
1826	2/24/98	1071	RTA00000404F.k.18.2	M00001635A:C06	5475
1827	2/24/98	1072	RTA00000419F.j.03.1	M00003868B:G06	77578
1828	2/24/98	1073	RTA00000418F.a.10.1	M00001475B:C04	15245
1829	2/24/98	1074	RTA00000423F.h.11.1	M00003867C:E11	38977
1830	2/24/98	1075	RTA00000413F.b.17.1	M00004078A:F07	21704
1831	2/24/98	1076	RTA00000423F.k.09.1	M00004035B:H09	26630

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1832	2/24/98	1077	RTA00000414F.e.11.1	M00005236B:A12	0
1833	2/24/98	1078	RTA00000423F.f.03.1	M00003829C:D10	63852
1834	2/24/98	1079	RTA00000419F.e.10.1	M00003833B:B03	63225
1835	2/24/98	1080	RTA00000351R.g.06.1	M00003771D:G05	0
1836	2/24/98	1081	RTA00000403F.d.02.1	M00001458D:D01	39224
1837	2/24/98	1082	RTA00000137A.o.22.1	M00001587A:D01	0
1838	2/24/98	1083	RTA00000418F.j.20.1	M00001634D:D04	77101
1839	2/24/98	1084	RTA00000403F.o.22.2	M00001583A:D01	25076
1840	2/24/98	1085	RTA00000403F.n.22.1	M00001578B:B05	26775
1841	2/24/98	1086	RTA00000403F.n.22.2	M00001578B:B05	26775
1842	2/24/98	1087	RTA00000401F.o.13.1	M00004040C:A01	3220
1843	2/24/98	1088	RTA00000339R.b.02.1	M00001344B:F12	0
1844	2/24/98	1089	RTA00000406F.j.21.1	M00003906A:H07	17822
1845	2/24/98	1090	RTA00000405F.g.22.1	M00001673C:A02	527
1846	2/24/98	1091	RTA00000356R.h.05.1	M00004107C:C02	35052
1847	2/24/98	1092	RTA00000125A.c.2.1	M00001542A:F06	40148
1848	2/24/98	1093	RTA00000340F.i.15.1	M00001629C:E07	26815
1849	2/24/98	1094	RTA00000405F.h.03.2	M00001673D:F10	20633
1850	2/24/98	1095	RTA00000345F.c.12.1	M00001376A:C05	23824
1851	2/24/98	1096	RTA00000421F.a.06.1	M00001589C:A11	2385
1852	2/24/98	1097	RTA00000412F.o.03.1	M00004033D:D07	65039
1853	2/24/98	1098	RTA00000409F.d.16.1	M00001590C:F10	76090
1854	2/24/98	1099	RTA00000400F.m.16.1	M00001660B:E04	3307
1855	2/24/98	1100	RTA00000414F.a.12.1	M00005210A:E06	0
1856	2/24/98	1101	RTA00000408F.j.17.2	M00001485B:H03	78935
1857	2/24/98	1102	RTA00000126A.j.15.2	M00001549A:H11	40425
1858	2/24/98	1103	RTA00000346F.a.16.1	M00001593A:B07	12082
1859	2/24/98	1104	RTA00000126A.b.10.1	M00001547A:F06	0
1860	2/24/98	1105	RTA00000340F.p.18.1	M00003751C:A04	287
1861	2/24/98	1106	RTA00000410F.b.17.1	M00001633C:H05	77458
1862	2/24/98	1107	RTA00000419F.l.22.1	M00003903D:C06	78444
1863	2/24/98	1108	RTA00000346F.c.16.1	M00001652B:G10	9579
1864	2/24/98	1109	RTA00000422F.f.22.1	M00001584A:G03	38703
1865	2/24/98	1110	RTA00000404F.j.24.1	M00001631D:G05	39067
1866	2/24/98	1111	RTA00000406F.m.20.1	M00003918C:C12	38038
1867	2/24/98	1112	RTA00000418F.c.05.1	M00001487B:F02	76475
1868	2/24/98	1113	RTA00000418F.p.21.1	M00001677D:F03	78068
1869	2/24/98	1114	RTA00000340F.f.22.1	M00001594B:F12	1720
1870	2/24/98	1115	RTA00000340F.i.08.1	M00001615B:F07	12005
1871	2/24/98	1116	RTA00000410F.o.04.1	M00001664D:F04	79018
1872	2/24/98	1117	RTA00000411F.l.16.1	M00003857C:G01	16122
1873	2/24/98	1118	RTA00000411F.j.03.1	M00003841C:F01	66263
1874	2/24/98	1119	RTA00000126A.k.24.1	M00001550A:F07	39428
1875	2/24/98	1120	RTA00000353R.l.23.1	M00001418B:F07	12531
1876	2/24/98	1121	RTA00000120A.m.10.3	M00001467A:B03	81376
1877	2/24/98	1122	RTA00000419F.f.16.1	M00003839D:E02	64679
1878	2/24/98	1123	RTA00000408F.c.23.1	M00001458C:D10	42261
1879	2/24/98	1124	RTA00000123A.h.22.1	M00001532A:C01	17124
1880	2/24/98	1125	RTA00000118A.n.5.1	M00001451A:C10	0
1881	2/24/98	1126	RTA00000136A.h.6.1	M00001550A:D09	81620

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1882	2/24/98	1127	RTA00000401F.g.22.1	M00003871A:G09	1147
1883	2/24/98	1128	RTA00000423F.a.02.3	M00001656B:A08	39210
1884	2/24/98	1129	RTA00000401F.m.07.1	M00003907D:F11	2893
1885	2/24/98	1130	RTA00000354R.p.01.1	M00004104C:H12	0
1886	2/24/98	1131	RTA00000418F.e.20.1	M00001576C:G05	73741
1887	2/24/98	1132	RTA00000119A.c.12.1	M00001453A:D08	4882
1888	2/24/98	1133	RTA00000405F.l.03.1	M00001692D:B01	38580
1889	2/24/98	1134	RTA00000418F.m.02.1	M00001650A:A12	74550
1890	2/24/98	1135	RTA00000346F.o.16.1	M00004358D:C02	176
1891	2/24/98	1136	RTA00000406F.c.05.1	M00003870A:H01	22077
1892	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
1893	2/24/98	1138	RTA00000411F.k.21.1	M00003854B:D04	65349
1894	2/24/98	1139	RTA00000404F.h.20.1	M00001619B:A09	15564
1895	2/24/98	1140	RTA00000339F.c.05.1	M00001365A:H10	3908
1896	2/24/98	1141	RTA00000347F.f.08.1	M00003972D:H02	5948
1897	2/24/98	1142	RTA00000418F.i.06.1	M00001591B:B06	75151
1898	2/24/98	1143	RTA00000423F.a.03.1	M00001656B:D05	26796
1899	2/24/98	1144	RTA00000345F.j.09.1	M00001451B:F01	13
1900	2/24/98	1145	RTA00000423F.k.21.2	M00003984D:B08	37499
1901	2/24/98	1146	RTA00000347F.h.02.1	M00004072D:H12	562
1902	2/24/98	1147	RTA00000404F.c.18.1	M00001594A:C01	38982
1903	2/24/98	1148	RTA00000345F.d.23.1	M00001390D:E03	5862
1904	2/24/98	1149	RTA00000339F.b.02.1	M00001344B:F12	0
1905	2/24/98	1150	RTA00000411F.g.24.1	M00003825B:B11	65233
1906	2/24/98	1151	RTA00000405F.g.18.2	M00001672D:E08	5255
1907	2/24/98	1152	RTA00000405F.m.07.1	M00003809B:B02	37733
1908	2/24/98	1153	RTA00000411F.j.07.1	M00003841C:H11	66963
1909	2/24/98	1154	RTA00000403F.m.09.2	M00001575B:G01	26814
1910	2/24/98	1155	RTA00000353R.h.04.1	M00001375B:C06	17123
1911	2/24/98	1156	RTA00000408F.f.10.2	M00001476D:C05	75309
1912	2/24/98	1157	RTA00000422F.m.18.1	M00001647B:E04	23829
1913	2/24/98	1158	RTA00000405F.o.03.1	M00003829C:H05	37575
1914	2/24/98	1159	RTA00000413F.b.18.1	M00004078C:F04	39873
1915	2/24/98	1160	RTA00000400F.g.02.1	M00001638B:E03	1508
1916	2/24/98	1161	RTA00000346F.m.05.1	M00003983B:C08	5644
1917	2/24/98	1162	RTA00000408F.c.10.1	M00001458A:A11	18247
1918	2/24/98	1163	RTA00000341F.b.14.1	M00003763A:C01	5992
1919	2/24/98	1164	RTA00000405F.m.21.1	M00003815C:C06	24218
1920	2/24/98	1165	RTA00000408F.c.08.1	M00001456D:G11	73473
1921	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
1922	2/24/98	1167	RTA00000410F.c.06.1	M00001633D:H06	77784
1923	2/24/98	1168	RTA00000421F.b.06.1	M00001567A:B09	2113
1924	2/24/98	1169	RTA00000405F.b.08.1	M00001656B:E01	39182
1925	2/24/98	1170	RTA00000409F.l.24.1	M00001616C:A02	73174
1926	2/24/98	1171	RTA00000406F.j.06.1	M00003905A:F10	38952
1927	2/24/98	1172	RTA00000423F.h.03.1	M00003875D:D09	37903
1928	2/24/98	1173	RTA00000339R.b.07.1	M00001360A:G10	6826
1929	2/24/98	1174	RTA00000121A.k.22.1	M00001507A:C05	79523
1930	2/24/98	1175	RTA00000414F.b.04.1	M00005212B:E01	0
1931	2/24/98	1176	RTA00000411F.m.06.1	M00003858D:G06	24195

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1932	2/24/98	1177	RTA00000126A.b.9.1	M00001547A:F11	81279
1933	2/24/98	1178	RTA00000400F.f.11.1	M00001636A:E07	4088
1934	2/24/98	1179	RTA00000341F.o.12.1	M00004144A:F04	2883
1935	2/24/98	1180	RTA00000404F.l.05.1	M00001636D:F09	38671
1936	2/24/98	1181	RTA00000346F.f.14.1	M00003800B:F03	16998
1937	2/24/98	1182	RTA00000346F.d.21.1	M00001670B:G12	6641
1938	2/24/98	1183	RTA00000346F.j.21.1	M00003879D:A08	3095
1939	2/24/98	1184	RTA00000345F.h.08.1	M00001419D:C10	11393
1940	2/24/98	1185	RTA00000413F.b.20.1	M00004079D:G08	66063
1941	2/24/98	1186	RTA00000419F.p.10.1	M00004036D:B09	41448
1942	2/24/98	1187	RTA00000120A.c.19.1	M00001464A:B03	81016
1943	2/24/98	1188	RTA00000341F.o.18.1	M00004169D:B11	37189
1944	2/24/98	1189	RTA00000339F.o.18.1	M00001469B:B01	6641
1945	2/24/98	1190	RTA00000405F.g.02.2	M00001671B:G05	10567
1946	2/24/98	1191	RTA00000340F.i.05.1	M00001614B:E08	0
1947	2/24/98	1192	RTA00000406F.m.17.1	M00003918A:F09	0
1948	2/24/98	1193	RTA00000411F.k.14.1	M00003851A:C10	63987
1949	2/24/98	1194	RTA00000420F.e.05.1	M00004107D:E12	63908
1950	2/24/98	1195	RTA00000422F.e.23.1	M00001567D:B03	19246
1951	2/24/98	1196	RTA00000413F.l.18.1	M00004895D:G07	0
1952	2/24/98	1197	RTA00000128A.j.10.1	M00001560A:H06	80085
1953	2/24/98	1198	RTA00000412F.f.10.2	M00003959A:A03	65405
1954	2/24/98	1199	RTA00000401F.j.23.1	M00003901C:D03	570
1955	2/24/98	1200	RTA00000422F.k.17.1	M00001652A:A01	38955
1956	2/24/98	1201	RTA00000409F.m.02.1	M00001616C:A11	9157
1957	2/24/98	1202	RTA00000347F.h.10.1	M00004206A:E02	22779
1958	2/24/98	1203	RTA00000413F.e.10.1	M00004092C:B03	31033
1959	2/24/98	1204	RTA00000419F.l.02.1	M00003879A:C01	75736
1960	2/24/98	1205	RTA00000419F.k.05.1	M00003871C:E04	11757
1961	2/24/98	1206	RTA00000418F.b.20.1	M00001484D:G05	73560
1962	2/24/98	1207	RTA00000401F.j.21.1	M00003901B:F10	0
1963	2/24/98	1208	RTA00000347F.e.24.1	M00003823B:F07	8188
1964	2/24/98	1209	RTA00000408F.n.05.2	M00001539A:H02	77883
1965	2/24/98	1210	RTA00000419F.o.09.1	M00003987B:F08	66396
1966	2/24/98	1211	RTA00000399F.f.14.1	M00001487D:C11	11483
1967	2/24/98	1212	RTA00000349R.o.03.1	M00001551D:H07	23006
1968	2/24/98	1213	RTA00000135A.a.23.1	M00001537A:H05	27054
1969	2/24/98	1214	RTA00000339F.j.07.1	M00001428D:B10	5673
1970	2/24/98	1215	RTA00000422F.o.08.2	M00001659D:D03	26832
1971	2/24/98	1216	RTA00000404F.e.07.1	M00001608A:D03	9034
1972	2/24/98	1217	RTA00000410F.j.17.1	M00001642D:F02	72912
1973	2/24/98	1218	RTA00000418F.m.18.1	M00001653B:G10	76479
1974	2/24/98	1219	RTA00000347F.e.20.1	M00003771B:E05	39911
1975	2/24/98	1220	RTA00000419F.e.23.1	M00003834B:G04	65772
1976	2/24/98	1221	RTA00000403F.o.17.1	M00001582D:A02	23085
1977	2/24/98	1222	RTA00000423F.e.13.1	M00003848A:C09	10998
1978	2/24/98	1223	RTA00000347F.a.14.1	M00001429D:F11	7421
1979	2/24/98	1224	RTA00000122A.h.24.1	M00001514A:A12	48
1980	2/24/98	1225	RTA00000346F.j.13.1	M00003841C:E04	5337
1981	2/24/98	1226	RTA00000414F.c.12.1	M00005218A:F09	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
1982	2/24/98	1227	RTA00000411F.g.05.1	M00003822D:B10	64664
1983	2/24/98	1228	RTA00000404F.h.10.1	M00001618A:A03	37148
1984	2/24/98	1229	RTA00000422F.n.14.1	M00001642C:G02	26787
1985	2/24/98	1230	RTA00000399F.j.14.1	M00001578C:F05	16942
1986	2/24/98	1231	RTA00000120A.m.13.3	M00001467A:C10	80608
1987	2/24/98	1232	RTA00000412F.i.03.1	M00003975D:C06	65617
1988	2/24/98	1233	RTA00000418F.l.02.1	M00001641C:C05	39316
1989	2/24/98	1234	RTA00000352R.c.20.1	M00003982A:B12	7339
1990	2/24/98	1235	RTA00000411F.j.04.1	M00003841C:F03	66219
1991	2/24/98	1236	RTA00000414F.b.06.1	M00005212C:C03	0
1992	2/24/98	1237	RTA00000414F.c.24.1	M00005229B:H04	0
1993	2/24/98	1238	RTA00000420F.g.09.1	M00004895B:E12	0
1994	2/24/98	1239	RTA00000340F.o.22.1	M00001673B:B07	7356
1995	2/24/98	1240	RTA00000404F.a.18.1	M00001590B:B02	36267
1996	2/24/98	1241	RTA00000408F.l.14.1	M00001530A:E10	12001
1997	2/24/98	1242	RTA00000405F.d.10.1	M00001661C:F11	39000
1998	2/24/98	1243	RTA00000404F.j.19.1	M00001630D:H10	0
1999	2/24/98	1244	RTA00000418F.h.23.1	M00001591A:B08	75153
2000	2/24/98	1245	RTA00000422F.k.22.1	M00001592C:E05	4098
2001	2/24/98	1246	RTA00000418F.j.11.1	M00001626C:E04	73853
2002	2/24/98	1247	RTA00000408F.o.13.1	M00001572A:B05	74895
2003	2/24/98	1248	RTA00000419F.o.07.1	M00003986C:E09	14059
2004	2/24/98	1249	RTA00000419F.n.17.1	M00003978D:G04	63186
2005	2/24/98	1250	RTA00000403F.f.15.1	M00001477D:F10	22768
2006	2/24/98	1251	RTA00000408F.d.03.1	M00001458D:A02	22768
2007	2/24/98	1252	RTA00000400F.g.08.1	M00001639A:C11	1275
2008	2/24/98	1253	RTA00000346F.f.02.1	M00003772C:B12	62757
2009	2/24/98	1254	RTA00000341F.p.11.1	M00004159C:G12	0
2010	2/24/98	1255	RTA00000413F.i.21.1	M00004118B:B04	64066
2011	2/24/98	1256	RTA00000401F.k.19.1	M00003903D:D10	799
2012	2/24/98	1257	RTA00000419F.h.21.1	M00003856C:B08	64828
2013	2/24/98	1258	RTA00000403F.p.05.2	M00001583D:B08	24528
2014	2/24/98	1259	RTA00000420F.l.19.2	M00005231A:H04	0
2015	2/24/98	1260	RTA00000422F.f.18.1	M00001583D:B08	24528
2016	2/24/98	1261	RTA00000404F.m.17.2	M00001643B:E05	0
2017	2/24/98	1262	RTA00000122A.h.4.1	M00001514A:G03	33576
2018	2/24/98	1263	RTA00000341F.i.22.1	M00003911A:F10	7825
2019	2/24/98	1264	RTA00000345F.e.13.1	M00001392C:D05	4366
2020	2/24/98	1265	RTA00000340F.d.07.1	M00001532D:A06	0
2021	2/24/98	1266	RTA00000121A.a.2.1	M00001468A:H10	81843
2022	3/24/98	1	RTA00000527F.g.13.1	M00003845D:A04	36035
2023	3/24/98	2	RTA00000523F.d.19.1	M00003824A:A06	26489
2024	3/24/98	3	RTA00000528F.b.23.1	M00001479C:F10	1605
2025	3/24/98	4	RTA00000426F.h.11.1	M00003905B:H05	75479
2026	3/24/98	5	RTA00000426F.p.04.1	M00004029B:H08	34149
2027	3/24/98	6	RTA00000523F.l.10.1	M00005134B:E01	0
2028	3/24/98	7	RTA00000523F.o.20.1	M00005177B:H02	0
2029	3/24/98	8	RTA00000428F.b.06.1	M00005228A:A09	0
2030	3/24/98	9	RTA00000522F.b.22.1	M00001573B:H12	75181
2031	3/24/98	10	RTA00000527F.f.12.1	M00003829D:D12	5945

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2032	3/24/98	11	RTA00000427F.l.11.1	M00005139A:F01	0
2033	3/24/98	12	RTA00000522F.a.23.1	M00001570C:A05	38613
2034	3/24/98	13	RTA00000528F.m.16.1	M00003845D:C03	4468
2035	3/24/98	14	RTA00000523F.b.02.1	M00003806C:A06	65163
2036	3/24/98	15	RTA00000425F.j.14.1	M00001639D:C12	73397
2037	3/24/98	16	RTA00000426F.m.22.1	M00003983A:G02	30002
2038	3/24/98	17	RTA00000527F.p.06.1	M00004029B:G10	1292
2039	3/24/98	18	RTA00000522F.e.16.1	M00001590A:C08	75283
2040	3/24/98	19	RTA00000527F.j.02.2	M00003856A:B07	4896
2041	3/24/98	20	RTA00000522F.o.06.1	M00001659D:A09	26860
2042	3/24/98	21	RTA00000523F.h.17.1	M00003852A:B03	65586
2043	3/24/98	22	RTA00000527F.k.15.1	M00003982A:G03	22688
2044	3/24/98	23	RTA00000522F.p.07.1	M00001670A:C11	76888
2045	3/24/98	24	RTA00000522F.n.08.1	M00001656A:D10	76343
2046	3/24/98	25	RTA00000425F.c.06.1	M00001585D:D11	78041
2047	3/24/98	26	RTA00000427F.b.23.1	M00003973D:F08	64297
2048	3/24/98	27	RTA00000527F.p.02.1	M00004029B:A01	36844
2049	3/24/98	28	RTA00000427F.d.08.1	M00003980C:E12	63967
2050	3/24/98	29	RTA00000524F.b.03.1	M00005212A:D10	0
2051	3/24/98	30	RTA00000426F.m.07.1	M00004028A:G03	63504
2052	3/24/98	31	RTA00000427F.c.10.1	M00003976B:E06	65478
2053	3/24/98	32	RTA00000424F.n.14.1	M00001584D:C11	73008
2054	3/24/98	33	RTA00000524F.b.21.1	M00005216C:B09	0
2055	3/24/98	34	RTA00000424F.m.15.1	M00001612D:F06	73759
2056	3/24/98	35	RTA00000426F.f.11.1	M00003823C:B01	63102
2057	3/24/98	36	RTA00000428F.a.16.1	M00005212D:F08	0
2058	3/24/98	37	RTA00000426F.f.20.1	M00003854C:F01	65134
2059	3/24/98	38	RTA00000528F.i.22.1	M00001661D:D05	2478
2060	3/24/98	39	RTA00000527F.c.23.1	M00003822C:A07	37742
2061	3/24/98	40	RTA00000426F.h.23.1	M00003911A:D12	75964
2062	3/24/98	41	RTA00000525F.b.17.1	M00004037B:A04	24715
2063	3/24/98	42	RTA00000527F.i.19.2	M00003853C:C06	38089
2064	3/24/98	43	RTA00000527F.p.07.1	M00004029C:B03	23343
2065	3/24/98	44	RTA00000527F.p.17.1	M00004030C:D12	17223
2066	3/24/98	45	RTA00000528F.m.12.1	M00003842D:F08	5768
2067	3/24/98	46	RTA00000523F.c.09.1	M00003813C:D08	47389
2068	3/24/98	47	RTA00000523F.e.18.1	M00003829D:A11	62898
2069	3/24/98	48	RTA00000527F.k.21.1	M00003982B:H10	36051
2070	3/24/98	49	RTA00000527F.n.22.1	M00004027A:A08	24175
2071	3/24/98	50	RTA00000522F.k.15.1	M00001652D:G06	76866
2072	3/24/98	51	RTA00000522F.n.02.1	M00001655D:E08	74959
2073	3/24/98	52	RTA00000523F.l.07.1	M00004927C:H11	0
2074	3/24/98	53	RTA00000525F.c.17.1	M00004040A:C08	38160
2075	3/24/98	54	RTA00000425F.f.19.1	M00001653D:G07	32635
2076	3/24/98	55	RTA00000528F.e.23.1	M00001593B:D10	19242
2077	3/24/98	56	RTA00000522F.n.16.1	M00001657D:A10	26769
2078	3/24/98	57	RTA00000427F.c.20.1	M00003978A:E01	26527
2079	3/24/98	58	RTA00000527F.k.06.1	M00003981B:B12	12469
2080	3/24/98	59	RTA00000427F.n.14.1	M00004960B:D12	0
2081	3/24/98	60	RTA00000523F.i.06.1	M00003855A:A01	66341

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2082	3/24/98	61	RTA00000427F.f.21.1	M00004118B:C11	36853
2083	3/24/98	62	RTA00000427F.j.19.1	M00004077A:G12	41395
2084	3/24/98	63	RTA00000522F.b.01.1	M00001570C:B02	75691
2085	3/24/98	64	RTA00000424F.i.24.1	M00001596A:G06	79101
2086	3/24/98	65	RTA00000523F.c.01.1	M00003810A:A02	65710
2087	3/24/98	66	RTA00000427F.b.15.1	M00003971C:F09	66891
2088	3/24/98	67	RTA00000527F.e.03.1	M00003825D:F01	25560
2089	3/24/98	68	RTA00000523F.n.04.1	M00005138B:D12	0
2090	3/24/98	69	RTA00000522F.j.15.2	M00001651C:G12	76535
2091	3/24/98	70	RTA00000525F.e.07.1	M00004115C:G03	38147
2092	3/24/98	71	RTA00000527F.j.20.2	M00003860D:E06	37603
2093	3/24/98	72	RTA00000426F.f.19.1	M00003854C:C09	66701
2094	3/24/98	73	RTA00000524F.b.12.1	M00005213C:G01	0
2095	3/24/98	74	RTA00000527F.d.19.1	M00003825B:F10	486
2096	3/24/98	75	RTA00000523F.i.22.1	M00003857A:E12	64688
2097	3/24/98	76	RTA00000523F.l.18.1	M00005134D:A06	0
2098	3/24/98	77	RTA00000425F.i.17.1	M00001633A:F11	43213
2099	3/24/98	78	RTA00000427F.o.05.1	M00004958B:D01	0
2100	3/24/98	79	RTA00000523F.l.15.1	M00005134C:E11	0
2101	3/24/98	80	RTA00000425F.p.12.1	M00001638C:G01	73219
2102	3/24/98	81	RTA00000427F.j.07.1	M00004105A:B10	64819
2103	3/24/98	82	RTA00000523F.h.15.1	M00003851C:F09	65137
2104	3/24/98	83	RTA00000527F.i.05.2	M00003851C:B06	37481
2105	3/24/98	84	RTA00000527F.k.18.1	M00003982B:C10	11332
2106	3/24/98	85	RTA00000427F.m.21.1	M00004900C:E11	0
2107	3/24/98	86	RTA00000523F.k.01.1	M00003966C:F03	41437
2108	3/24/98	87	RTA00000425F.j.11.1	M00001637C:H12	76667
2109	3/24/98	88	RTA00000424F.b.22.4	M00001530A:F11	72971
2110	3/24/98	89	RTA00000527F.n.02.1	M00003986C:G11	24190
2111	3/24/98	90	RTA00000525F.a.03.1	M00004031D:F05	36786
2112	3/24/98	91	RTA00000527F.i.21.2	M00003855A:F01	37490
2113	3/24/98	92	RTA00000424F.a.24.4	M00001448D:E11	73951
2114	3/24/98	93	RTA00000522F.k.14.1	M00001652D:G02	74280
2115	3/24/98	94	RTA00000522F.n.05.1	M00001655D:H11	73260
2116	3/24/98	95	RTA00000523F.c.18.1	M00003817C:A10	66179
2117	3/24/98	96	RTA00000523F.b.13.1	M00003809B:A03	66330
2118	3/24/98	97	RTA00000522F.j.14.2	M00001651C:D11	73123
2119	3/24/98	98	RTA00000527F.p.16.1	M00004030C:C02	23798
2120	3/24/98	99	RTA00000425F.c.20.1	M00001626D:A02	73581
2121	3/24/98	100	RTA00000424F.i.21.1	M00001596A:E07	73482
2122	3/24/98	101	RTA00000523F.j.19.1	M00003966B:D02	65910
2123	3/24/98	102	RTA00000522F.g.19.1	M00001595C:A01	78119
2124	3/24/98	103	RTA00000424F.b.22.1	M00001530A:F11	72971
2125	3/24/98	104	RTA00000527F.b.18.1	M00003810D:H09	37469
2126	3/24/98	105	RTA00000526F.d.01.1	M00004104B:A02	4468
2127	3/24/98	106	RTA00000424F.j.14.1	M00001592B:B02	74311
2128	3/24/98	107	RTA00000523F.n.20.1	M00005174D:H02	0
2129	3/24/98	108	RTA00000525F.e.16.1	M00004117B:G01	36837
2130	3/24/98	109	RTA00000424F.a.01.4	M00001575A:D05	43214
2131	3/24/98	110	RTA00000522F.d.08.1	M00001578B:A06	74284

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2132	3/24/98	111	RTA00000425F.d.08.1	M00001631A:F06	74350
2133	3/24/98	112	RTA00000523F.n.12.1	M00005173C:A02	0
2134	3/24/98	113	RTA00000527F.g.07.1	M00003840C:C02	37488
2135	3/24/98	114	RTA00000524F.a.23.1	M00005211C:E09	0
2136	3/24/98	115	RTA00000525F.b.05.1	M00004034C:F05	21116
2137	3/24/98	116	RTA00000425F.n.05.1	M00001647D:G07	73965
2138	3/24/98	117	RTA00000523F.d.18.1	M00003822B:G01	64072
2139	3/24/98	118	RTA00000525F.a.02.1	M00004031C:H10	37454
2140	3/24/98	119	RTA00000523F.p.06.1	M00005177D:F09	0
2141	3/24/98	120	RTA00000426F.h.09.1	M00003905B:G03	78797
2142	3/24/98	121	RTA00000427F.n.02.1	M00004900D:B10	0
2143	3/24/98	122	RTA00000523F.o.12.1	M00005177A:B06	0
2144	3/24/98	123	RTA00000427F.g.05.1	M00004069C:C08	63138
2145	3/24/98	124	RTA00000424F.m.12.1	M00001586C:H07	77675
2146	3/24/98	125	RTA00000424F.a.01.1	M00001575A:D05	43214
2147	3/24/98	126	RTA00000527F.m.05.1	M00003985A:C01	17240
2148	3/24/98	127	RTA00000523F.n.10.1	M00005140D:G09	0
2149	3/24/98	128	RTA00000428F.c.02.1	M00005229D:H07	0
2150	3/24/98	129	RTA00000527F.p.18.1	M00004030D:B06	31635
2151	3/24/98	130	RTA00000427F.h.12.1	M00004092C:D08	36894
2152	3/24/98	131	RTA00000523F.c.15.1	M00003813D:G06	36935
2153	3/24/98	132	RTA00000427F.k.17.1	M00004101A:F07	64965
2154	3/24/98	133	RTA00000425F.f.04.1	M00001607A:B06	24633
2155	3/24/98	134	RTA00000424F.c.14.3	M00001476D:A09	76614
2156	3/24/98	135	RTA00000522F.k.10.2	M00001652D:B09	77619
2157	3/24/98	136	RTA00000424F.m.22.1	M00001614C:E11	72943
2158	3/24/98	137	RTA00000527F.h.17.1	M00003848D:G02	37799
2159	3/24/98	138	RTA00000527F.c.22.1	M00003822B:G12	37496
2160	3/24/98	139	RTA00000425F.k.22.1	M00001633C:E12	78123
2161	3/24/98	140	RTA00000424F.m.14.1	M00001612D:D12	77491
2162	3/24/98	141	RTA00000522F.k.19.1	M00001653A:A05	32625
2163	3/24/98	142	RTA00000523F.i.18.1	M00003856B:C04	64463
2164	3/24/98	143	RTA00000425F.j.22.1	M00001633B:E03	73882
2165	3/24/98	144	RTA00000527F.g.23.1	M00003846C:F08	37538
2166	3/24/98	145	RTA00000426F.m.24.1	M00003981A:A07	63943
2167	3/24/98	146	RTA00000527F.i.17.2	M00003853B:C08	37539
2168	3/24/98	147	RTA00000425F.d.21.1	M00001631B:H04	78920
2169	3/24/98	148	RTA00000427F.n.18.1	M00004891D:C11	0
2170	3/24/98	149	RTA00000424F.d.04.3	M00001478A:F12	76505
2171	3/24/98	150	RTA00000424F.d.04.1	M00001478A:F12	76505
2172	3/24/98	151	RTA00000427F.c.12.1	M00003976B:H07	66995
2173	3/24/98	152	RTA00000425F.d.07.1	M00001631A:F12	43197
2174	3/24/98	153	RTA00000527F.l.13.1	M00003983C:F10	36904
2175	3/24/98	154	RTA00000522F.h.13.1	M00001596C:F09	40823
2176	3/24/98	155	RTA00000424F.l.19.1	M00001609C:A12	75454
2177	3/24/98	156	RTA00000525F.b.22.1	M00004037C:D07	16679
2178	3/24/98	157	RTA00000523F.g.10.1	M00003848B:E07	40694
2179	3/24/9°	15°	RTA00000427F.a.06.1	M00004036A:A11	66550
2180	3/24/98	159	RTA00000525F.c.19.1	M00004040B:F07	38159
2181	3/24/98	160	RTA00000523F.f.06.1	M00003833D:H08	62871

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2182	3/24/98	161	RTA00000424F.h.10.1	M00001485C:G06	72925
2183	3/24/98	162	RTA00000522F.a.12.1	M00001567A:H05	33515
2184	3/24/98	163	RTA00000522F.h.01.1	M00001595C:E05	75010
2185	3/24/98	164	RTA00000523F.n.17.1	M00005174D:B02	0
2186	3/24/98	165	RTA00000425F.e.21.1	M00001629D:D10	77203
2187	3/24/98	166	RTA00000523F.f.07.1	M00003833D:H10	62799
2188	3/24/98	167	RTA00000424F.i.20.1	M00001596A:D01	44010
2189	3/24/98	168	RTA00000424F.j.12.1	M00001594C:E05	73827
2190	3/24/98	169	RTA00000425F.f.05.1	M00001607A:D10	24090
2191	3/24/98	170	RTA00000523F.d.12.1	M00003822B:D08	64888
2192	3/24/98	171	RTA00000523F.e.10.1	M00003829A:F03	62878
2193	3/24/98	172	RTA00000425F.f.11.1	M00001656C:C04	79275
2194	3/24/98	173	RTA00000426F.m.18.1	M00003986D:G07	62974
2195	3/24/98	174	RTA00000424F.b.21.4	M00001530A:B02	24686
2196	3/24/98	175	RTA00000528F.d.18.1	M00001582C:E01	2684
2197	3/24/98	176	RTA00000522F.g.15.1	M00001595B:G07	76536
2198	3/24/98	177	RTA00000522F.n.12.1	M00001656A:H12	74117
2199	3/24/98	178	RTA00000428F.a.12.1	M00005179B:H02	0
2200	3/24/98	179	RTA00000424F.d.10.3	M00001530D:A11	73110
2201	3/24/98	180	RTA00000523F.k.02.1	M00004687A:C03	0
2202	3/24/98	181	RTA00000523F.b.06.1	M00003808A:F09	28736
2203	3/24/98	182	RTA00000524F.b.17.1	M00005214B:A06	0
2204	3/24/98	183	RTA00000527F.c.04.1	M00003813C:H08	23090
2205	3/24/98	184	RTA00000524F.b.18.1	M00005214B:D11	0
2206	3/24/98	185	RTA00000527F.h.21.1	M00003850C:G09	37630
2207	3/24/98	186	RTA00000425F.c.07.1	M00001585D:F03	76042
2208	3/24/98	187	RTA00000428F.b.23.1	M00005231D:H10	0
2209	3/24/98	188	RTA00000525F.c.15.1	M00004040A:A07	7692
2210	3/24/98	189	RTA00000424F.d.22.3	M00001448B:G07	76189
2211	3/24/98	190	RTA00000523F.h.12.1	M00003851C:D07	65745
2212	3/24/98	191	RTA00000522F.g.22.1	M00001595C:B12	77504
2213	3/24/98	192	RTA00000523F.m.02.1	M00005134D:H03	0
2214	3/24/98	193	RTA00000428F.b.12.1	M00005231C:B07	0
2215	3/24/98	194	RTA00000522F.j.12.2	M00001651C:A04	74341
2216	3/24/98	195	RTA00000523F.i.08.1	M00003855A:C12	65099
2217	3/24/98	196	RTA00000523F.f.12.1	M00003840A:C10	63751
2218	3/24/98	197	RTA00000425F.j.20.1	M00001633B:A12	26760
2219	3/24/98	198	RTA00000523F.o.05.1	M00005175B:H04	0
2220	3/24/98	199	RTA00000427F.f.24.1	M00004076D:B09	64572
2221	3/24/98	200	RTA00000527F.a.13.1	M00003805D:E06	37740
2222	3/24/98	201	RTA00000427F.n.17.1	M00004891D:A07	0
2223	3/24/98	202	RTA00000528F.j.11.1	M00001669B:C12	1070
2224	3/24/98	203	RTA00000427F.p.10.2	M00005102C:F09	0
2225	3/24/98	204	RTA00000424F.a.09.4	M00001575C:C11	77833
2226	3/24/98	205	RTA00000426F.h.12.1	M00003905C:F12	78093
2227	3/24/98	206	RTA00000525F.f.07.1	M00004119A:A06	37500
2228	3/24/98	207	RTA00000424F.j.07.1	M00001596B:C11	79211
2229	3/24/98	208	RTA00000424F.m.10.1	M00001586C:E06	34251
2230	3/24/98	209	RTA00000427F.g.16.1	M00004069A:E12	63011
2231	3/24/98	210	RTA00000522F.g.06.1	M00001594D:G11	78221

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2232	3/24/98	211	RTA00000424F.h.03.1	M00001487C:G09	74447
2233	3/24/98	212	RTA00000424F.n.06.1	M00001613A:D02	74737
2234	3/24/98	213	RTA00000427F.c.22.1	M00003978A:E09	63990
2235	3/24/98	214	RTA00000424F.k.12.1	M00001610C:B07	77666
2236	3/24/98	215	RTA00000425F.f.02.1	M00001607A:A01	76982
2237	3/24/98	216	RTA00000427F.h.11.1	M00004092C:B12	26494
2238	3/24/98	217	RTA00000425F.j.16.1	M00001639D:F02	75631
2239	3/24/98	218	RTA00000427F.i.19.1	M00004102C:D01	64206
2240	3/24/98	219	RTA00000427F.f.17.1	M00004115A:B12	63803
2241	3/24/98	220	RTA00000522F.o.18.1	M00001669B:H06	76366
2242	3/24/98	221	RTA00000427F.j.22.1	M00004097D:B05	66367
2243	3/24/98	222	RTA00000426F.p.10.1	M00004033D:C05	65845
2244	3/24/98	223	RTA00000522F.m.02.1	M00001654C:G07	76834
2245	3/24/98	224	RTA00000527F.k.09.1	M00003981C:F05	213
2246	3/24/98	225	RTA00000527F.d.09.1	M00003824A:G11	10848
2247	3/24/98	226	RTA00000425F.e.15.1	M00001608D:F11	75921
2248	3/24/98	227	RTA00000427F.i.11.1	M00004097C:H08	26635
2249	3/24/98	228	RTA00000523F.o.14.1	M00005177A:H09	0
2250	3/24/98	229	RTA00000424F.n.13.1	M00001584D:B06	74942
2251	3/24/98	230	RTA00000424F.g.14.1	M00001572A:B06	74879
2252	3/24/98	231	RTA00000426F.e.17.1	M00003810C:B06	64089
2253	3/24/98	232	RTA00000527F.i.13.2	M00003852B:G04	2924
2254	3/24/98	233	RTA00000426F.f.13.1	M00003851A:A06	65384
2255	3/24/98	234	RTA00000524F.c.16.1	M00005218D:G10	0
2256	3/24/98	235	RTA00000427F.g.19.1	M00004087A:B05	64611
2257	3/24/98	236	RTA00000527F.o.01.1	M00004027A:D06	19088
2258	3/24/98	237	RTA00000522F.c.01.1	M00001576A:C11	74938
2259	3/24/98	238	RTA00000522F.g.17.1	M00001595B:G10	76486
2260	3/24/98	239	RTA00000523F.j.17.1	M00003966B:A04	63610
2261	3/24/98	240	RTA00000522F.n.14.1	M00001657C:C11	73410
2262	3/24/98	241	RTA00000527F.o.12.1	M00004028B:G08	688
2263	3/24/98	242	RTA00000523F.e.20.1	M00003829D:F03	65164
2264	3/24/98	243	RTA00000424F.c.15.3	M00001476D:F12	73533
2265	3/24/98	244	RTA00000426F.p.09.1	M00004033D:B07	66665
2266	3/24/98	245	RTA00000522F.p.09.1	M00001670A:F09	75204
2267	3/24/98	246	RTA00000426F.m.21.1	M00003983A:F06	64915
2268	3/24/98	247	RTA00000425F.j.21.1	M00001633B:B11	77373
2269	3/24/98	248	RTA00000527F.l.14.1	M00003983D:A09	14935
2270	3/24/98	249	RTA00000523F.h.21.1	M00003853B:C10	41440
2271	3/24/98	250	RTA00000427F.h.24.1	M00004091B:H09	65193
2272	3/24/98	251	RTA00000425F.f.24.1	M00001656D:C04	40841
2273	3/24/98	252	RTA00000425F.m.03.1	M00001642D:G08	76045
2274	3/24/98	253	RTA00000426F.m.08.1	M00004030B:A12	63781
2275	3/24/98	254	RTA00000523F.d.24.1	M00003824D:D08	64799
2276	3/24/98	255	RTA00000523F.c.14.1	M00003813D:C02	66015
2277	3/24/98	256	RTA00000523F.b.20.1	M00003809C:H07	66492
2278	3/24/98	257	RTA00000522F.h.07.1	M00001595D:C11	75149
2279	3/24/98	258	RTA00000527F.g.10.1	M00003845A:E12	37820
2280	3/24/98	259	RTA00000528F.m.04.1	M00003830D:H11	10815
2281	3/24/98	260	RTA00000524F.b.02.1	M00005212A:A02	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2282	3/24/98	261	RTA00000427F.i.22.1	M00004104D:B05	63199
2283	3/24/98	262	RTA00000424F.k.03.1	M00001590D:B04	21289
2284	3/24/98	263	RTA00000527F.n.07.1	M00003986D:H12	15939
2285	3/24/98	264	RTA00000425F.e.09.1	M00001608C:G04	75550
2286	3/24/98	265	RTA00000427F.h.02.1	M00004085B:G01	63652
2287	3/24/98	266	RTA00000426F.f.16.1	M00003813B:F02	65613
2288	3/24/98	267	RTA00000425F.i.21.1	M00001635B:B02	75305
2289	3/24/98	268	RTA00000427F.k.19.1	M00004103B:B07	62851
2290	3/24/98	269	RTA00000427F.p.02.2	M00005100B:D02	0
2291	3/24/98	270	RTA00000426F.g.16.1	M00003814B:C01	41446
2292	3/24/98	271	RTA00000527F.l.05.1	M00003983A:D02	13016
2293	3/24/98	272	RTA00000426F.m.02.1	M00004034C:C06	66237
2294	3/24/98	273	RTA00000424F.a.02.4	M00001575A:D06	78806
2295	3/24/98	274	RTA00000523F.h.06.1	M00003851B:D03	28745
2296	3/24/98	275	RTA00000522F.l.22.1	M00001654C:D10	75801
2297	3/24/98	276	RTA00000427F.h.19.1	M00004092D:B11	63047
2298	3/24/98	277	RTA00000427F.e.08.1	M00003974D:E01	47387
2299	3/24/98	278	RTA00000522F.g.21.1	M00001595C:A09	77310
2300	3/24/98	279	RTA00000528F.b.03.1	M00001455A:D10	2078
2301	3/24/98	280	RTA00000522F.g.20.1	M00001595C:A05	77688
2302	3/24/98	281	RTA00000527F.k.20.1	M00003982B:H07	17148
2303	3/24/98	282	RTA00000427F.h.22.1	M00004108C:E01	64547
2304	3/24/98	283	RTA00000425F.k.20.1	M00001633C:A08	74048
2305	3/24/98	284	RTA00000524F.b.19.1	M00005216B:D02	0
2306	3/24/98	285	RTA00000522F.b.07.1	M00001570D:E05	78634
2307	3/24/98	286	RTA00000426F.g.19.1	M00003858B:G02	63672
2308	3/24/98	287	RTA00000525F.d.19.1	M00004114B:D09	36860
2309	3/24/98	288	RTA00000427F.l.04.1	M00005136D:C01	0
2310	3/24/98	289	RTA00000427F.d.10.1	M00003978C:A12	40685
2311	3/24/98	290	RTA00000427F.l.03.1	M00005136D:B07	0
2312	3/24/98	291	RTA00000523F.o.23.1	M00005177C:G04	0
2313	3/24/98	292	RTA00000424F.a.05.4	M00001575B:C01	77976
2314	3/24/98	293	RTA00000525F.c.02.1	M00004038A:E05	14618
2315	3/24/98	294	RTA00000424F.a.05.1	M00001575B:C01	77976
2316	3/24/98	295	RTA00000522F.l.15.1	M00001654B:A01	74691
2317	3/24/98	296	RTA00000425F.e.02.1	M00001625C:F10	76143
2318	3/24/98	297	RTA00000525F.c.11.1	M00004039C:E02	37895
2319	3/24/98	298	RTA00000527F.e.08.1	M00003826B:B04	19015
2320	3/24/98	299	RTA00000522F.c.14.1	M00001577A:A03	75449
2321	3/24/98	300	RTA00000424F.m.08.1	M00001584A:A07	19402
2322	3/24/98	301	RTA00000527F.f.18.1	M00003830D:B11	37577
2323	3/24/98	302	RTA00000427F.p.04.2	M00005100B:H07	0
2324	3/24/98	303	RTA00000522F.a.06.1	M00001567A:C11	73662
2325	3/24/98	304	RTA00000525F.d.13.1	M00004110C:E03	349
2326	3/24/98	305	RTA00000523F.n.16.1	M00005173D:H02	0
2327	3/24/98	306	RTA00000522F.d.23.1	M00001579D:F02	73868
2328	3/24/98	307	RTA00000427F.p.03.2	M00005100B:G11	0
2329	3/24/98	308	RTA00000424F.k.23.1	M00001614A:B10	31061
2330	3/24/98	309	RTA00000523F.j.10.1	M00003860B:G09	63384
2331	3/24/98	310	RTA00000527F.p.08.1	M00004029C:F02	36013

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2332	3/24/98	311	RTA00000428F.b.02.1	M00005214D:D10	0
2333	3/24/98	312	RTA00000426F.f.17.1	M00003811C:C02	66334
2334	3/24/98	313	RTA00000523F.j.21.1	M00003966C:A12	36925
2335	3/24/98	314	RTA00000522F.e.09.1	M00001589D:A01	32599
2336	3/24/98	315	RTA00000427F.n.19.1	M00004891D:E07	0
2337	3/24/98	316	RTA00000523F.h.16.1	M00003851D:H11	66031
2338	3/24/98	317	RTA00000428F.a.01.1	M00004897D:G05	0
2339	3/24/98	318	RTA00000523F.a.01.1	M00001671C:F11	74923
2340	3/24/98	319	RTA00000523F.p.15.1	M00005178B:H01	0
2341	3/24/98	320	RTA00000427F.j.06.1	M00004102D:B05	63676
2342	3/24/98	321	RTA00000424F.m.04.1	M00001609C:G05	79017
2343	3/24/98	322	RTA00000523F.i.17.1	M00003856B:A12	65779
2344	3/24/98	323	RTA00000524F.c.12.1	M00005218B:D09	0
2345	3/24/98	324	RTA00000523F.o.09.1	M00005176A:C12	0
2346	3/24/98	325	RTA00000525F.c.18.1	M00004040B:C05	24208
2347	3/24/98	326	RTA00000527F.e.09.1	M00003826B:E11	37521
2348	3/24/98	327	RTA00000424F.j.08.1	M00001596B:D09	73972
2349	3/24/98	328	RTA00000523F.n.01.1	M00005137A:E01	0
2350	3/24/98	329	RTA00000527F.c.09.1	M00003817C:G06	64859
2351	3/24/98	330	RTA00000523F.d.23.1	M00003824C:A10	63633
2352	3/24/98	331	RTA00000528F.k.10.1	M00001678C:F09	1981
2353	3/24/98	332	RTA00000523F.c.03.1	M00003810B:B11	36913
2354	3/24/98	333	RTA00000427F.k.21.1	M00004090D:F12	62880
2355	3/24/98	334	RTA00000427F.n.11.1	M00004960B:A09	0
2356	3/24/98	335	RTA00000427F.d.09.1	M00003980C:F12	66486
2357	3/24/98	336	RTA00000426F.n.17.1	M00004039D:B10	66572
2358	3/24/98	337	RTA00000525F.e.08.1	M00004115C:H04	24193
2359	3/24/98	338	RTA00000523F.e.15.1	M00003829C:E08	7919
2360	3/24/98	339	RTA00000426F.m.03.1	M00004034C:E08	66480
2361	3/24/98	340	RTA00000424F.h.06.1	M00001485C:D07	77552
2362	3/24/98	341	RTA00000425F.d.06.1	M00001631A:D03	77660
2363	3/24/98	342	RTA00000427F.e.12.1	M00003959C:G06	62813
2364	3/24/98	343	RTA00000527F.c.11.1	M00003817D:D12	37484
2365	3/24/98	344	RTA00000425F.p.15.1	M00001638C:H07	31680
2366	3/24/98	345	RTA00000426F.n.23.1	M00004030C:A08	18176
2367	3/24/98	346	RTA00000522F.m.19.1	M00001655C:C07	41544
2368	3/24/98	347	RTA00000522F.a.05.1	M00001567A:C04	32611
2369	3/24/98	348	RTA00000427F.i.09.1	M00004097C:E03	65916
2370	3/24/98	349	RTA00000424F.j.09.1	M00001596B:H05	74387
2371	3/24/98	350	RTA00000424F.n.11.1	M00001582C:C04	73874
2372	3/24/98	351	RTA00000523F.l.03.1	M00004927A:A02	0
2373	3/24/98	352	RTA00000527F.e.13.1	M00003826C:F05	37588
2374	3/24/98	353	RTA00000428F.a.18.1	M00005214C:A09	0
2375	3/24/98	354	RTA00000425F.j.19.1	M00001639D:G06	77925
2376	3/24/98	355	RTA00000522F.g.12.1	M00001595A:E07	78783
2377	3/24/98	356	RTA00000523F.a.07.1	M00001693A:H06	75804
2378	3/24/98	357	RTA00000425F.e.19.1	M00001629D:B10	73409
2379	3/24/98	358	RTA00000425F.n.19.1	M00001638B:C08	78324
2380	3/24/98	359	RTA00000523F.d.21.1	M00003824B:C09	33424
2381	3/24/98	360	RTA00000523F.j.03.1	M00003860A:A08	64535

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2382	3/24/98	361	RTA00000523F.p.08.1	M00005178A:A07	0
2383	3/24/98	362	RTA00000523F.p.09.1	M00005178A:A08	0
2384	3/24/98	363	RTA00000427F.k.07.1	M00004099A:F11	63742
2385	3/24/98	364	RTA00000523F.m.07.1	M00005136A:D10	0
2386	3/24/98	365	RTA00000527F.k.16.1	M00003982B:B06	1015
2387	3/24/98	366	RTA00000522F.a.17.1	M00001567C:B08	79032
2388	3/24/98	367	RTA00000527F.l.19.1	M00003983D:E08	36856
2389	3/24/98	368	RTA00000424F.i.11.1	M00001485D:A05	41569
2390	3/24/98	369	RTA00000524F.c.08.1	M00005217C:C01	0
2391	3/24/98	370	RTA00000424F.d.19.3	M00001448B:A07	73180
2392	3/24/98	371	RTA00000522F.j.09.2	M00001650D:F11	78522
2393	3/24/98	372	RTA00000424F.m.24.1	M00001614C:G07	77045
2394	3/24/98	373	RTA00000522F.j.19.2	M00001652B:D06	76224
2395	3/24/98	374	RTA00000528F.f.10.1	M00001596C:G05	3600
2396	3/24/98	375	RTA00000427F.p.19.2	M00004895C:G05	0
2397	3/24/98	376	RTA00000525F.b.21.1	M00004037C:D04	9486
2398	3/24/98	377	RTA00000527F.j.12.2	M00003857C:E05	37503
2399	3/24/98	378	RTA00000522F.g.11.1	M00001595A:D12	75432
2400	3/24/98	379	RTA00000522F.k.02.2	M00001652C:B09	77622
2401	3/24/98	380	RTA00000427F.e.13.1	M00003959D:A04	66080
2402	3/24/98	381	RTA00000426F.f.18.1	M00003854C:C02	63271
2403	3/24/98	382	RTA00000427F.a.12.1	M00003982C:H10	63377
2404	3/24/98	383	RTA00000424F.b.23.4	M00001530A:H05	77322
2405	3/24/98	384	RTA00000527F.p.03.1	M00004029B:A06	5940
2406	3/24/98	385	RTA00000426F.f.12.1	M00003823C:C04	19096
2407	3/24/98	386	RTA00000523F.l.16.1	M00005134C:G04	0
2408	3/24/98	387	RTA00000427F.f.02.1	M00004118D:A11	36822
2409	3/24/98	388	RTA00000526F.d.17.1	M00004235A:A12	2757
2410	3/24/98	389	RTA00000424F.i.15.1	M00001596A:A02	78043
2411	3/24/98	390	RTA00000524F.a.11.1	M00005210D:C09	0
2412	3/24/98	391	RTA00000522F.m.03.1	M00001654C:G09	79194
2413	3/24/98	392	RTA00000522F.a.20.1	M00001567C:E07	74070
2414	3/24/98	393	RTA00000424F.b.15.4	M00001539B:B10	74958
2415	3/24/98	394	RTA00000527F.g.14.1	M00003845D:B02	37532
2416	3/24/98	395	RTA00000522F.d.06.1	M00001578B:A02	74809
2417	3/24/98	396	RTA00000528F.g.05.2	M00001615C:E07	3770
2418	3/24/98	397	RTA00000427F.e.10.1	M00003974D:H07	64599
2419	3/24/98	398	RTA00000527F.c.16.1	M00003821A:H09	22908
2420	3/24/98	399	RTA00000524F.c.07.1	M00005217A:G10	0
2421	3/24/98	400	RTA00000523F.f.17.1	M00003840B:E08	63984
2422	3/24/98	401	RTA00000525F.c.16.1	M00004040A:B04	38209
2423	3/24/98	402	RTA00000527F.p.24.1	M00004031B:A06	36832
2424	3/24/98	403	RTA00000425F.n.17.1	M00001636A:H12	78304
2425	3/24/98	404	RTA00000522F.b.18.1	M00001573B:A06	3460
2426	3/24/98	405	RTA00000425F.e.07.1	M00001608C:D02	75992
2427	3/24/98	406	RTA00000523F.o.07.1	M00005176A:A05	0
2428	3/24/98	407	RTA00000523F.h.08.1	M00003851B:E01	62893
2429	3/24/98	408	RTA00000522F.o.10.1	M00001660D:E05	78798
2430	3/24/98	409	RTA00000425F.l.10.1	M00001638A:C08	26893
2431	3/24/98	410	RTA00000427F.f.16.1	M00004119D:H06	64122

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2432	3/24/98	411	RTA00000424F.n.12.1	M00001582C:G02	41589
2433	3/24/98	412	RTA00000425F.i.11.1	M00001664B:F06	21716
2434	3/24/98	413	RTA00000425F.i.10.1	M00001664B:E08	78736
2435	3/24/98	414	RTA00000426F.m.12.1	M00004030B:D08	63740
2436	3/24/98	415	RTA00000527F.g.12.1	M00003845C:D04	37746
2437	3/24/98	416	RTA00000527F.i.12.2	M00003852B:D11	0
2438	3/24/98	417	RTA00000524F.b.10.1	M00005213C:A01	0
2439	3/24/98	418	RTA00000425F.i.18.1	M00001633A:G10	42255
2440	3/24/98	419	RTA00000428F.b.22.1	M00005231D:B09	0
2441	3/24/98	420	RTA00000424F.j.13.1	M00001594C:H03	74485
2442	3/24/98	421	RTA00000523F.i.10.1	M00003855B:B09	64876
2443	3/24/98	422	RTA00000527F.f.03.1	M00003829A:B08	17788
2444	3/24/98	423	RTA00000427F.p.06.2	M00005102C:C01	0
2445	3/24/98	424	RTA00000424F.k.10.1	M00001592D:H02	73232
2446	3/24/98	425	RTA00000522F.i.07.2	M00001649A:E10	78377
2447	3/24/98	426	RTA00000424F.k.21.1	M00001614A:A04	73197
2448	3/24/98	427	RTA00000522F.b.08.1	M00001570D:E06	26915
2449	3/24/98	428	RTA00000522F.l.08.1	M00001654A:E08	78781
2450	3/24/98	429	RTA00000525F.a.14.1	M00004033B:C02	37566
2451	3/24/98	430	RTA00000424F.g.08.1	M00001482C:F09	74928
2452	3/24/98	431	RTA00000425F.l.09.1	M00001638A:B04	75251
2453	3/24/98	432	RTA00000522F.o.20.1	M00001669C:B09	74853
2454	3/24/98	433	RTA00000527F.j.04.2	M00003856A:G04	11809
2455	3/24/98	434	RTA00000522F.c.11.1	M00001576C:H02	31064
2456	3/24/98	435	RTA00000523F.c.13.1	M00003813D:B12	40668
2457	3/24/98	436	RTA00000427F.i.21.1	M00004102C:F03	65540
2458	3/24/98	437	RTA00000427F.n.10.1	M00004960B:A08	0
2459	3/24/98	438	RTA00000522F.h.02.1	M00001595C:E09	74947
2460	3/24/98	439	RTA00000522F.g.10.1	M00001595A:C07	74294
2461	3/24/98	440	RTA00000523F.o.22.1	M00005177C:B04	0
2462	3/24/98	441	RTA00000528F.g.22.2	M00001630C:F09	920
2463	3/24/98	442	RTA00000425F.d.14.1	M00001629A:H09	13417
2464	3/24/98	443	RTA00000425F.k.16.1	M00001640A:F05	75282
2465	3/24/98	444	RTA00000525F.b.09.1	M00004035B:F05	23472
2466	3/24/98	445	RTA00000522F.j.08.2	M00001650D:D10	76613
2467	3/24/98	446	RTA00000425F.f.20.1	M00001653D:H07	74071
2468	3/24/98	447	RTA00000523F.f.19.1	M00003840B:F05	34169
2469	3/24/98	448	RTA00000425F.j.18.1	M00001639D:G12	75561
2470	3/24/98	449	RTA00000426F.m.04.1	M00004028A:B10	36865
2471	3/24/98	450	RTA00000527F.g.21.1	M00003846B:C05	36028
2472	3/24/98	451	RTA00000527F.i.15.2	M00003852C:F07	14235
2473	3/24/98	452	RTA00000525F.a.22.1	M00004033D:G06	36848
2474	3/24/98	453	RTA00000522F.p.22.1	M00001671B:F02	73322
2475	3/24/98	454	RTA00000424F.d.12.2	M00001530D:E06	74342
2476	3/24/98	455	RTA00000424F.g.24.1	M00001487C:A11	79156
2477	3/24/98	456	RTA00000427F.a.10.1	M00004038B:D01	65370
2478	3/24/98	457	RTA00000426F.h.20.1	M00003905A:H11	23187
2479	3/24/98	458	RTA00000424F.d.12.3	M00001530D:E06	74342
2480	3/24/98	459	RTA00000425F.c.03.1	M00001585D:B12	74643
2481	3/24/98	460	RTA00000523F.f.16.1	M00003840B:E07	26522

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2482	3/24/98	461	RTA00000427F.f.15.1	M00004119D:A07	66734
2483	3/24/98	462	RTA00000427F.p.13.2	M00004695B:E04	0
2484	3/24/98	463	RTA00000523F.p.16.1	M00005179D:B03	0
2485	3/24/98	464	RTA00000522F.p.18.1	M00001671A:H06	76376
2486	3/24/98	465	RTA00000528F.d.04.1	M00001570D:E07	2395
2487	3/24/98	466	RTA00000427F.d.06.1	M00003980B:C06	33446
2488	3/24/98	467	RTA00000528F.h.02.2	M00001632C:D08	1701
2489	3/24/98	468	RTA00000524F.a.18.1	M00005211A:E09	0
2490	3/24/98	469	RTA00000522F.e.20.1	M00001590B:H10	26770
2491	3/24/98	470	RTA00000427F.p.24.2	M00004897D:F03	0
2492	3/24/98	471	RTA00000528F.c.11.1	M00001486D:D12	1701
2493	3/24/98	472	RTA00000522F.g.18.1	M00001595B:H11	73226
2494	3/24/98	473	RTA00000523F.o.21.1	M00005177C:A01	0
2495	3/24/98	474	RTA00000522F.h.05.1	M00001595C:H11	73358
2496	3/24/98	475	RTA00000427F.i.06.1	M00004097B:D03	41450
2497	3/24/98	476	RTA00000425F.n.16.1	M00001636A:C02	18265
2498	3/24/98	477	RTA00000527F.l.21.1	M00003983D:H02	36439
2499	3/24/98	478	RTA00000527F.p.09.1	M00004029C:F05	7694
2500	3/24/98	479	RTA00000527F.l.23.1	M00003984A:B06	36018
2501	3/24/98	480	RTA00000424F.d.17.3	M00001455A:E11	73958
2502	3/24/98	481	RTA00000523F.j.02.1	M00003857A:H10	62853
2503	2/24/98	1132	RTA00000119A.c.12.1	M00001453A:D08	4882
2504	2/24/98	6	RTA00000119A.j.15.1	M00001460A:E11	79623
2505	2/24/98	1041	RTA00000403F.b.05.1	M00001455B:E07	74300
2506	2/24/98	994	RTA00000408F.b.04.2	M00001455A:F04	39933
2507	2/24/98	401	RTA00000132A.c.11.1	M00001454A:G03	87278
2508	2/24/98	535	RTA00000119A.g.7.1	M00001454A:F11	83580
2509	2/24/98	867	RTA00000339F.l.21.1	M00001455D:D11	9781
2510	2/24/98	62	RTA00000339F.n.10.1	M00001453B:F08	13719
2511	2/24/98	380	RTA00000403F.b.19.1	M00001456B:A06	22327
2512	1/28/98	288	RTA00000181AR.i.06.3	M00001452A:C07	19119
2512	2/24/98	198	RTA00000339R.l.14.1	M00001452A:C07	19119
2513	1/28/98	288	RTA00000181AR.i.06.3	M00001452A:C07	19119
2513	2/24/98	198	RTA00000339R.l.14.1	M00001452A:C07	19119
2514	2/24/98	264	RTA00000345F.j.08.1	M00001451B:A04	16731
2515	2/24/98	1125	RTA00000118A.n.5.1	M00001451A:C10	0
2516	2/24/98	229	RTA00000345F.i.09.1	M00001450A:D08	27250
2517	2/24/98	670	RTA00000131A.i.6.1	M00001450A:B08	0
2518	2/24/98	892	RTA00000339F.m.17.1	M00001453B:H12	20854
2519	2/24/98	1123	RTA00000408F.c.23.1	M00001458C:D10	42261
2520	2/24/98	680	RTA00000345F.e.11.1	M00001391C:C04	4392
2521	2/24/98	644	RTA00000119A.j.9.1	M00001460A:B12	82060
2522	2/24/98	972	RTA00000408F.d.15.1	M00001459B:C11	78467
2523	2/24/98	1081	RTA00000403F.d.02.1	M00001458D:D01	39224
2524	2/24/98	231	RTA00000408F.d.06.1	M00001458D:C11	78997
2525	2/24/98	663	RTA00000403F.b.12.1	M00001455D:A06	78775
2526	2/24/98	856	RTA00000408F.d.02.1	M00001458D:A01	79169
2527	2/24/98	743	RTA00000345F.i.08.1	M00001449D:G10	0
2528	2/24/98	1162	RTA00000408F.c.10.1	M00001458A:A11	18247
2529	2/24/98	841	RTA00000119A.i.8.1	M00001457A:G12	82593

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2530	2/24/98	677	RTA00000119A.h.24.1	M00001457A:C05	82266
2531	2/24/98	750	RTA00000403F.c.05.1	M00001456C:C11	74935
2532	2/24/98	751	RTA00000422F.i.02.1	M00001456C:B12	76436
2533	2/24/98	920	RTA00000403F.b.24.1	M00001456B:G01	78838
2534	2/24/98	1251	RTA00000408F.d.03.1	M00001458D:A02	22768
2535	2/24/98	450	RTA00000118A.a.23.1	M00001395A:H02	3500
2536	2/24/98	85	RTA00000339F.k.22.1	M00001427C:D01	5556
2537	2/24/98	684	RTA00000339F.k.20.1	M00001426D:D12	6662
2538	2/24/98	129	RTA00000118A.d.24.1	M00001416A:H02	81488
2539	2/24/98	397	RTA00000118A.d.17.1	M00001416A:D09	81921
2540	2/24/98	158	RTA00000348R.j.16.1	M00001410A:D07	7005
2541	2/24/98	1025	RTA00000118A.j.24.1	M00001450A:B03	18
2542	2/24/98	1005	RTA00000339F.e.17.1	M00001397D:G08	7568
2543	2/24/98	1040	RTA00000348R.o.12.1	M00001433C:F10	2263
2544	2/24/98	746	RTA00000345F.e.02.1	M00001395A:E03	0
2545	2/24/98	517	RTA00000118A.a.2.1	M00001395A:A12	38067
2546	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
2546	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
2547	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
2547	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
2548	1/28/98	675	RTA00000179AR.b.21.3	M00001392C:D05	4366
2548	2/24/98	1264	RTA00000345F.e.13.1	M00001392C:D05	4366
2549	1/28/98	562	RTA00000196F.j.12.1	M00001396A:H03	19294
2550	2/24/98	1042	RTA00000339F.g.10.1	M00001400C:D02	6327
2551	2/24/98	706	RTA00000403F.a.09.1	M00001448B:H05	77820
2552	2/24/98	823	RTA00000119A.k.1.1	M00001460A:H11	81282
2553	2/24/98	703	RTA00000339F.n.05.1	M00001449D:B01	39648
2554	2/24/98	787	RTA00000345F.i.24.1	M00001449C:C05	0
2555	2/24/98	68	RTA00000339F.n.03.1	M00001449B:B03	0
2556	2/24/98	440	RTA00000403F.a.18.1	M00001448D:F12	75726
2557	2/24/98	815	RTA00000403F.a.17.1	M00001448D:E12	13686
2558	2/24/98	275	RTA00000353R.j.24.1	M00001428B:D01	23089
2559	2/24/98	902	RTA00000403F.a.10.1	M00001448C:E11	73952
2560	2/24/98	1214	RTA00000339F.j.07.1	M00001428D:B10	5673
2561	2/24/98	378	RTA00000403F.a.07.1	M00001448B:F09	73559
2562	2/24/98	473	RTA00000403F.a.05.1	M00001448A:E11	18808
2563	2/24/98	128	RTA00000403F.a.04.1	M00001448A:B12	23529
2564	2/24/98	227	RTA00000347F.c.06.1	M00001444D:C01	18846
2565	2/24/98	35	RTA00000339F.i.13.1	M00001434A:B10	5970
2566	2/24/98	442	RTA00000347F.b.02.1	M00001450A:A02	39304
2567	2/24/98	288	RTA00000403F.a.11.1	M00001448C:F10	73109
2568	2/24/98	853	RTA00000408F.j.13.2	M00001485B:D10	42275
2569	2/24/98	249	RTA00000119A.j.10.1	M00001460A:C10	79646
2570	2/24/98	634	RTA00000418F.c.04.1	M00001487B:A11	41587
2571	2/24/98	110	RTA00000408F.k.14.1	M00001486B:E12	73856
2572	2/24/98	894	RTA00000408F.k.12.1	M00001486B:D07	77246
2573	2/24/98	395	RTA00000408F.j.19.2	M00001485C:C08	73752
2574	2/24/98	509	RTA00000349R.g.10.1	M00001495B:B08	5777
2575	2/24/98	426	RTA00000408F.j.15.2	M00001485B:F05	74759
2576	2/24/98	101	RTA00000121A.m.2.1	M00001507A:A11	81064

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2577	2/24/98	330	RTA00000403F.i.04.1	M00001485B:D09	8930
2578	2/24/98	647	RTA00000418F.b.23.1	M00001485A:C05	28767
2579	2/24/98	569	RTA00000403F.h.18.1	M00001484C:A04	39241
2580	2/24/98	236	RTA00000403F.h.12.1	M00001483C:G09	15205
2581	2/24/98	707	RTA00000403F.h.11.1	M00001483B:D04	39219
2582	2/24/98	869	RTA00000403F.h.07.1	M00001482D:H11	26856
2583	2/24/98	1101	RTA00000408F.j.17.2	M00001485B:H03	78935
2584	2/24/98	344	RTA00000403F.m.15.2	M00001575D:D12	26901
2585	2/24/98	768	RTA00000121A.k.5.1	M00001507A:E04	17530
2586	2/24/98	1174	RTA00000121A.k.22.1	M00001507A:C05	79523
2587	2/24/98	184	RTA00000133A.j.13.1	M00001507A:B02	16846
2588	2/24/98	1230	RTA00000399F.j.14.1	M00001578C:F05	16942
2589	2/24/98	304	RTA00000403F.n.18.2	M00001577D:H06	8811
2590	2/24/98	938	RTA00000403F.i.23.1	M00001487B:E10	11364
2591	2/24/98	1131	RTA00000418F.e.20.1	M00001576C:G05	73741
2592	2/24/98	651	RTA00000403F.g.11.1	M00001481A:H08	24238
2593	2/24/98	312	RTA00000399F.i.08.1	M00001575D:B10	38927
2594	2/24/98	800	RTA00000403F.m.12.1	M00001575D:A02	16933
2595	2/24/98	1017	RTA00000418F.e.03.1	M00001573B:G08	73442
2596	2/24/98	269	RTA00000422F.e.08.1	M00001573A:E01	39020
2597	2/24/98	1247	RTA00000408F.o.13.1	M00001572A:B05	74895
2598	2/24/98	847	RTA00000403F.l.11.1	M00001571D:F05	25073
2599	2/24/98	910	RTA00000418F.f.03.1	M00001577B:F10	78911
2600	2/24/98	244	RTA00000120A.g.23.1	M00001465A:E10	81189
2601	2/24/98	1189	RTA00000339F.o.18.1	M00001469B:B01	6641
2602	2/24/98	1266	RTA00000121A.a.2.1	M00001468A:H10	81843
2603	2/24/98	414	RTA00000120A.p.18.1	M00001468A:C05	6478
2604	2/24/98	96	RTA00000120A.n.19.3	M00001467A:H07	80004
2605	2/24/98	1231	RTA00000120A.m.13.3	M00001467A:C10	80608
2606	2/24/98	134	RTA00000408F.i.08.2	M00001482A:H05	75811
2607	2/24/98	410	RTA00000120A.h.5.1	M00001465A:G06	80344
2608	2/24/98	403	RTA00000403F.d.22.1	M00001473A:A07	10692
2609	2/24/98	183	RTA00000120A.g.18.1	M00001465A:C12	81255
2610	2/24/98	810	RTA00000120A.h.9.1	M00001465A:B12	80736
2611	2/24/98	71	RTA00000120A.d.24.1	M00001464A:E10	5085
2612	2/24/98	490	RTA00000120A.d.15.1	M00001464A:B02	80533
2613	2/24/98	736	RTA00000120A.c.7.1	M00001462A:D03	80985
2614	2/24/98	724	RTA00000119A.m.17.1	M00001461A:F05	79536
2615	2/24/98	1063	RTA00000132A.n.7.1	M00001466A:F08	0
2616	2/24/98	74	RTA00000408F.e.22.2	M00001476B:F08	26930
2617	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
2617	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
2617	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
2618	2/24/98	1012	RTA00000403F.g.06.1	M00001480C:A05	10505
2619	2/24/98	419	RTA00000408F.h.08.1	M00001480A:D03	74575
2620	2/24/98	871	RTA00000403F.f.23.1	M00001479C:E01	39223
2621	2/24/98	638	RTA00000418F.b.09.1	M00001478B:H08	19700
2622	2/24/98	770	RTA00000421F.f.05.1	M00001477B:E02	5266
2623	2/24/98	549	RTA00000121A.h.18.1	M00001471A:B04	16376
2624	2/24/98	660	RTA00000408F.e.24.2	M00001476C:C11	75002

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2625	2/24/98	144	RTA00000349R.f.15.1	M00001472A:D08	75097
2626	2/24/98	774	RTA00000403F.e.24.1	M00001476B:D10	16432
2627	2/24/98	268	RTA00000403F.e.23.1	M00001476A:D11	9626
2628	2/24/98	715	RTA00000418F.b.01.1	M00001475C:G11	76040
2629	2/24/98	1073	RTA00000418F.a.10.1	M00001475B:C04	15245
2630	2/24/98	100	RTA00000339F.o.23.1	M00001473C:D09	7801
2631	2/24/98	756	RTA00000403F.g.13.1	M00001481B:D09	38718
2632	2/24/98	915	RTA00000408F.f.14.2	M00001476D:F03	73024
2633	1/28/98	389	RTA00000181AR.k.2.2	M00001453C:A11	0
2633	1/28/98	286	RTA00000181AR.k.2.3	M00001453C:A11	0
2634	1/28/98	565	RTA00000191AF.c.10.1	M00003989B:F11	40422
2635	1/28/98	449	RTA00000181AF.m.22.3	M00001455D:F09	9283
2635	1/28/98	450	RTA00000181AF.m.21.3	M00001455D:F09	9283
2636	1/28/98	449	RTA00000181AF.m.22.3	M00001455D:F09	9283
2636	1/28/98	450	RTA00000181AF.m.21.3	M00001455D:F09	9283
2637	1/28/98	449	RTA00000181AF.m.22.3	M00001455D:F09	9283
2637	1/28/98	450	RTA00000181AF.m.21.3	M00001455D:F09	9283
2638	1/28/98	449	RTA00000181AF.m.22.3	M00001455D:F09	9283
2638	1/28/98	450	RTA00000181AF.m.21.3	M00001455D:F09	9283
2639	1/28/98	390	RTA00000197AR.f.07.1	M00001457C:C11	19261
2639	1/28/98	184	RTA00000197AF.f.7.1	M00001457C:C11	19261
2640	1/28/98	598	RTA00000197F.e.10.1	M00001454B:D08	13154
2641	1/28/98	184	RTA00000197AF.f.7.1	M00001457C:C11	19261
2641	1/28/98	390	RTA00000197AR.f.07.1	M00001457C:C11	19261
2642	1/28/98	286	RTA00000181AR.k.2.3	M00001453C:A11	0
2642	1/28/98	389	RTA00000181AR.k.2.2	M00001453C:A11	0
2643	1/28/98	667	RTA00000197AF.d.16.1	M00001452A:E07	23505
2644	1/28/98	679	RTA00000197AF.d.11.1	M00001451C:E01	27260
2645	1/28/98	664	RTA00000195R.a.23.1	M00001449C:H12	86432
2646	1/28/98	594	RTA00000181AR.e.04.3	M00001448A:G09	11825
2647	1/28/98	405	RTA00000197AF.b.24.1	M00001446C:D09	23171
2648	1/28/98	572	RTA00000181AF.l.16.2	M00001454D:E05	13532
2649	1/28/98	590	RTA00000190AF.d.2.1	M00003906B:F12	2444
2650	1/28/98	675	RTA00000179AR.b.21.3	M00001392C:D05	4366
2650	2/24/98	1264	RTA00000345F.e.13.1	M00001392C:D05	4366
2651	1/28/98	486	RTA00000190AR.p.22.2	M00003979A:E11	16368
2652	1/28/98	701	RTA00000199AF.o.10.1	M00003974C:E04	0
2653	1/28/98	704	RTA00000190AF.o.12.1	M00003972D:C09	3438
2654	1/28/98	469	RTA00000190AF.n.2.1	M00003963A:E03	5650
2655	1/28/98	612	RTA00000197AR.e.22.1	M00001456A:H02	78758
2656	1/28/98	640	RTA00000190AF.f.5.1	M00003909A:H04	5015
2657	1/28/98	539	RTA00000197AR.b.13.1	M00001445B:E04	9560
2658	1/28/98	431	RTA00000199AF.k.15.1	M00003905C:G10	8275
2659	1/28/98	747	RTA00000190AF.c.6.1	M00003904D:D10	4780
2660	1/28/98	584	RTA00000190AR.c.03.1	M00003904C:A08	0
2660	2/24/98	1069	RTA00000346F.k.05.1	M00003904C:A08	0
2661	1/28/98	584	RTA00000190AR.c.03.1	M00003904C:A08	0
2661	2/24/98	1069	RTA00000346F.k.05.1	M00003904C:A08	0
2662	1/28/98	577	RTA00000190AF.a.24.2	M00003901B:A05	0
2663	1/28/98	639	RTA00000199AF.j.1.1	M00003881C:G09	6006

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2664	1/28/98	649	RTA00000190AR.l.19.2	M00003946A:H10	88204
2665	1/28/98	488	RTA00000179AR.l.22.4	M00001405B:E09	4314
2665	1/28/98	481	RTA00000179AR.l.22.2	M00001405B:E09	4314
2666	1/28/98	721	RTA00000180AF.c.4.1	M00001417B:C04	5415
2667	1/28/98	744	RTA00000196F.m.4.1	M00001413A:F03	7958
2668	1/28/98	569	RTA00000196AF.l.23.1	M00001412A:E04	12052
2669	1/28/98	707	RTA00000179AF.p.15.1	M00001411D:F05	5622
2670	1/28/98	599	RTA00000179AF.o.5.1	M00001408D:D04	6172
2671	1/28/98	420	RTA00000181AF.c.11.1	M00001445D:A06	4769
2672	1/28/98	500	RTA00000179AR.m.07.5	M00001405D:D11	0
2673	1/28/98	609	RTA00000196AF.n.05.1	M00001418B:F07	12531
2673	2/24/98	1120	RTA00000353R.l.23.1	M00001418B:F07	12531
2674	1/28/98	481	RTA00000179AR.l.22.2	M00001405B:E09	4314
2674	1/28/98	488	RTA00000179AR.l.22.4	M00001405B:E09	4314
2675	1/28/98	481	RTA00000179AR.l.22.2	M00001405B:E09	4314
2675	1/28/98	488	RTA00000179AR.l.22.4	M00001405B:E09	4314
2676	1/28/98	481	RTA00000179AR.l.22.2	M00001405B:E09	4314
2676	1/28/98	488	RTA00000179AR.l.22.4	M00001405B:E09	4314
2677	1/28/98	636	RTA00000196F.k.20.1	M00001402B:F12	6324
2678	1/28/98	691	RTA00000195F.a.10.1	M00001401C:H03	6803
2679	2/24/98	161	RTA00000418F.n.22.1	M00001659D:B05	79062
2680	1/28/98	611	RTA00000196F.l.13.2	M00001408A:H04	0
2681	1/28/98	535	RTA00000196AF.n.19.1	M00001423D:D12	6881
2682	1/28/98	413	RTA00000200F.a.12.1	M00004031D:B05	16751
2683	1/28/98	580	RTA00000197F.a.12.1	M00001438B:B09	7895
2684	1/28/98	681	RTA00000180AF.l.04.2	M00001432D:F05	11159
2685	1/28/98	568	RTA00000196AF.p.01.2	M00001430A:A02	87143
2686	1/28/98	736	RTA00000196AF.o.13.1	M00001428B:A09	0
2687	1/28/98	438	RTA00000180AR.g.03.4	M00001425A:C11	9024
2687	1/28/98	95	RTA00000180AF.g.3.1	M00001425A:C11	9024
2688	1/28/98	514	RTA00000196AF.n.02.1	M00001417D:A04	39260
2689	1/28/98	741	RTA00000196AF.n.22.1	M00001424B:H04	9572
2690	1/28/98	609	RTA00000196AF.n.05.1	M00001418B:F07	12531
2690	2/24/98	1120	RTA00000353R.l.23.1	M00001418B:F07	12531
2691	1/28/98	462	RTA00000196AF.n.17.1	M00001423D:A09	12477
2692	1/28/98	477	RTA00000180AR.e.22.2	M00001423A:G05	7714
2693	1/28/98	445	RTA00000196AF.n.13.1	M00001422C:F12	8396
2694	1/28/98	696	RTA00000180AR.d.16.3	M00001419D:C10	11393
2694	2/24/98	1184	RTA00000345F.h.08.1	M00001419D:C10	11393
2695	1/28/98	696	RTA00000180AR.d.16.3	M00001419D:C10	11393
2695	2/24/98	1184	RTA00000345F.h.08.1	M00001419D:C10	11393
2696	1/28/98	541	RTA00000197AR.b.16.1	M00001445C:A08	0
2697	1/28/98	95	RTA00000180AF.g.3.1	M00001425A:C11	9024
2697	1/28/98	438	RTA00000180AR.g.03.4	M00001425A:C11	9024
2698	1/28/98	536	RTA00000193AR.a.2.3	M00004216D:D03	0
2699	1/28/98	588	RTA00000191AF.b.4.1	M00003983C:F03	14936
2700	1/28/98	401	RTA00000195F.e.04.1	M00004465B:D04	6731
2701	2/24/98	91	RTA00000355R.e.15.1	M00004316A:G09	22639
2701	1/28/98	410	RTA00000201F.a.20.1	M00004316A:G09	22639
2702	1/28/98	410	RTA00000201F.a.20.1	M00004316A:G09	22639

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2702	2/24/98	91	RTA00000355R.e.15.1	M00004316A:G09	22639
2703	1/28/98	716	RTA00000200F.p.05.1	M00004285C:A08	3984
2704	2/24/98	434	RTA00000348R.b.16.1	M00001347B:H04	6510
2705	1/28/98	528	RTA00000200F.n.09.2	M00004249D:B08	12391
2706	2/24/98	575	RTA00000345F.a.18.1	M00001351C:B06	5517
2707	1/28/98	658	RTA00000193AF.a.1.1	M00004216D:C03	16501
2708	1/28/98	472	RTA00000192AF.p.17.1	M00004214C:H05	11451
2709	1/28/98	478	RTA00000192AR.o.24.2	M00004210B:B05	7191
2710	1/28/98	753	RTA00000192AF.o.17.1	M00004208D:B10	5275
2711	1/28/98	563	RTA00000192AR.o.16.2	M00004208B:F05	9061
2712	1/28/98	730	RTA00000192AF.o.11.1	M00004205D:F06	0
2713	1/28/98	624	RTA00000200F.o.15.1	M00004275A:B03	7866
2714	2/24/98	169	RTA00000347F.a.17.1	M00001366D:C06	16723
2715	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
2715	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
2715	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
2716	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
2716	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
2716	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
2717	1/28/98	522	RTA00000178AR.h.17.2	M00001376A:C05	23824
2717	2/24/98	1095	RTA00000345F.c.12.1	M00001376A:C05	23824
2718	1/28/98	522	RTA00000178AR.h.17.2	M00001376A:C05	23824
2718	2/24/98	1095	RTA00000345F.c.12.1	M00001376A:C05	23824
2719	2/24/98	1155	RTA00000353R.h.04.1	M00001375B:C06	17123
2720	1/28/98	614	RTA00000201F.f.03.1	M00004493B:D09	22633
2721	2/24/98	16	RTA00000399F.a.02.1	M00001366D:C12	0
2722	1/28/98	436	RTA00000200AF.k.11.1	M00004197C:F03	9796
2722	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
2723	2/24/98	1140	RTA00000339F.c.05.1	M00001365A:H10	3908
2724	2/24/98	322	RTA00000339F.c.24.1	M00001364B:B06	5516
2725	2/24/98	888	RTA00000339R.c.04.1	M00001362D:H01	1805
2726	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
2726	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
2727	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
2727	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
2728	2/24/98	1173	RTA00000339R.b.07.1	M00001360A:G10	6826
2729	2/24/98	973	RTA00000339F.b.22.1	M00001373D:B03	6867
2730	1/28/98	581	RTA00000191AF.p.3.2	M00004104B:F11	17
2731	1/28/98	637	RTA00000200AF.g.15.1	M00004135B:G01	22898
2731	1/28/98	476	RTA00000200R.g.15.1	M00004135B:G01	22898
2732	1/28/98	637	RTA00000200AF.g.15.1	M00004135B:G01	22898
2732	1/28/98	476	RTA00000200R.g.15.1	M00004135B:G01	22898
2733	1/28/98	474	RTA00000192AR.d.1.3	M00004130D:H01	14507
2734	1/28/98	735	RTA00000192AF.b.11.1	M00004117A:G01	40014
2735	1/28/98	726	RTA00000200R.f.10.1	M00004111D:B07	4
2736	1/28/98	752	RTA00000192AF.o.7.1	M00004204D:C03	5275
2737	1/28/98	516	RTA00000200AF.e.23.1	M00004107B:A06	14686
273°	1/28/98	685	RTA00000200F.i.9.1	M00004159C:F09	36756
2738	2/24/98	704	RTA00000355R.a.12.1	M00004159C:F09	36756
2739	1/28/98	417	RTA00000200R.d.16.1	M00004085A:B02	39875

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2740	1/28/98	454	RTA00000200R.d.04.1	M00004078A:A06	5506
2741	1/28/98	551	RTA00000200AR.c.24.1	M00004076D:D04	15972
2742	1/28/98	524	RTA00000191AF.j.24.1	M00004076B:G03	0
2743	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
2743	1/28/98	684	RTA00000200AR.b.11.1	M00004040A:G12	12043
2744	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
2744	1/28/98	684	RTA00000200AR.b.11.1	M00004040A:G12	12043
2745	1/28/98	415	RTA00000200AF.f.09.1	M00004111C:E11	12863
2746	1/28/98	448	RTA00000200AF.j.9.1	M00004177C:A01	8608
2747	2/24/98	446	RTA00000133A.m.19.2	M00001512A:G05	80167
2748	1/28/98	436	RTA00000200AF.k.11.1	M00004197C:F03	9796
2748	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
2749	1/28/98	436	RTA00000200AF.k.11.1	M00004197C:F03	9796
2749	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
2750	1/28/98	436	RTA00000200AF.k.11.1	M00004197C:F03	9796
2750	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
2751	1/28/98	610	RTA00000200AF.k.2.1	M00004188D:G08	35924
2752	1/28/98	494	RTA00000200AF.k.1.1	M00004188C:A09	40049
2752	1/28/98	194	RTA00000200R.k.01.1	M00004188C:A09	40049
2753	1/28/98	574	RTA00000192AF.f.3.1	M00004146C:C11	5257
2754	1/28/98	604	RTA00000200AF.j.15.1	M00004185D:E04	5849
2755	1/28/98	579	RTA00000200F.i.7.1	M00004157D:B03	22322
2756	1/28/98	634	RTA00000192AF.j.6.1	M00004172C:D08	11494
2757	1/28/98	421	RTA00000200AF.i.21.1	M00004167D:A07	5316
2758	1/28/98	543	RTA00000200AF.i.19.1	M00004167A:H03	14722
2759	1/28/98	483	RTA00000192AF.h.19.1	M00004162C:A07	4642
2760	2/24/98	704	RTA00000355R.a.12.1	M00004159C:F09	36756
2760	1/28/98	685	RTA00000200F.i.9.1	M00004159C:F09	36756
2761	1/28/98	607	RTA00000200AF.k.12.1	M00004198B:D02	7359
2762	1/28/98	494	RTA00000200AF.k.1.1	M00004188C:A09	40049
2762	1/28/98	194	RTA00000200R.k.01.1	M00004188C:A09	40049
2763	2/24/98	554	RTA00000409F.i.03.1	M00001610A:E09	75968
2764	2/24/98	1228	RTA00000404F.h.10.1	M00001618A:A03	37148
2765	2/24/98	332	RTA00000409F.i.24.1	M00001611B:A09	76967
2766	2/24/98	1023	RTA00000404F.f.12.1	M00001611B:A05	39209
2767	2/24/98	572	RTA00000422F.l.03.1	M00001610D:D05	39147
2768	2/24/98	497	RTA00000350R.f.21.1	M00001610C:E07	22110
2769	2/24/98	557	RTA00000409F.j.05.1	M00001611C:C12	74128
2770	2/24/98	223	RTA00000404F.e.22.1	M00001610A:H05	11344
2771	2/24/98	165	RTA00000409F.j.07.1	M00001611C:H11	75190
2772	2/24/98	959	RTA00000340F.g.20.1	M00001609D:G10	4089
2773	2/24/98	737	RTA00000404F.e.15.1	M00001609B:C09	39101
2774	2/24/98	974	RTA00000340F.h.07.1	M00001608D:D11	19254
2775	2/24/98	857	RTA00000404F.e.09.1	M00001608B:A09	39121
2776	1/28/98	340	RTA00000185AF.n.8.1	M00001608B:A03	0
2776	2/24/98	75	RTA00000350R.i.22.1	M00001608B:A03	0
2777	1/28/98	340	RTA00000185AF.n.8.1	M00001608B:A03	0
2777	2/24/98	75	RTA00000350R.i.22.1	M00001608B:A03	0
2778	2/24/98	546	RTA00000409F.i.09.1	M00001610B:C07	75279
2779	2/24/98	374	RTA00000422F.m.04.1	M00001615B:A09	38702

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2780	2/24/98	505	RTA00000121A.o.3.1	M00001511A:A02	81437
2781	2/24/98	453	RTA00000130A.h.13.1	M00001617A:A01	80790
2782	2/24/98	163	RTA00000422F.l.23.1	M00001616D:C11	4240
2783	2/24/98	889	RTA00000346F.b.16.1	M00001615C:G05	16485
2784	2/24/98	203	RTA00000404F.g.21.1	M00001615C:A11	37947
2785	2/24/98	32	RTA00000409F.j.02.1	M00001611B:E06	76417
2786	2/24/98	872	RTA00000409F.l.20.1	M00001615B:G01	74394
2787	2/24/98	978	RTA00000130A.e.20.1	M00001606A:H09	79502
2788	2/24/98	45	RTA00000409F.l.12.1	M00001615A:D06	26755
2789	2/24/98	182	RTA00000404F.g.14.1	M00001614D:B08	8858
2790	2/24/98	912	RTA00000404F.g.13.1	M00001614C:E06	9436
2791	2/24/98	1191	RTA00000340F.i.05.1	M00001614B:E08	0
2792	2/24/98	192	RTA00000421F.k.15.1	M00001613D:B03	2222
2793	2/24/98	360	RTA00000409F.j.19.1	M00001613A:F03	73792
2794	2/24/98	57	RTA00000409F.l.21.1	M00001615B:G07	73143
2795	2/24/98	354	RTA00000404F.c.03.2	M00001592C:F11	39198
2796	2/24/98	791	RTA00000399F.n.15.1	M00001594D:C03	3213
2797	2/24/98	921	RTA00000422F.j.02.1	M00001594D:B08	10368
2798	2/24/98	1114	RTA00000340F.f.22.1	M00001594B:F12	1720
2799	2/24/98	966	RTA00000422F.k.15.1	M00001594A:G09	19253
2800	2/24/98	46	RTA00000404F.c.20.1	M00001594A:D08	39088
2801	2/24/98	955	RTA00000404F.e.06.1	M00001607D:F06	39315
2802	2/24/98	1103	RTA00000346F.a.16.1	M00001593A:B07	12082
2803	2/24/98	540	RTA00000418F.i.18.1	M00001595C:B05	78024
2804	2/24/98	1245	RTA00000422F.k.22.1	M00001592C:E05	4098
2805	2/24/98	693	RTA00000404F.b.19.1	M00001592B:A04	39281
2806	2/24/98	1013	RTA00000404F.b.18.1	M00001592A:H05	13669
2807	2/24/98	989	RTA00000418F.i.12.1	M00001592A:E02	78971
2808	2/24/98	404	RTA00000404F.b.11.1	M00001591D:F06	39079
2809	2/24/98	786	RTA00000404F.b.09.1	M00001591D:C07	39166
2810	2/24/98	1147	RTA00000404F.c.18.1	M00001594A:C01	38982
2811	2/24/98	686	RTA00000129A.k.21.1	M00001601A:E12	82067
2812	2/24/98	1011	RTA00000400F.c.04.1	M00001618A:F08	6445
2813	2/24/98	702	RTA00000130A.d.5.1	M00001605A:H03	82051
2814	2/24/98	425	RTA00000130A.b.5.1	M00001605A:E09	79579
2815	2/24/98	458	RTA00000130A.a.19.1	M00001605A:A06	0
2816	2/24/98	51	RTA00000129A.n.21.1	M00001604A:C11	79381
2817	2/24/98	804	RTA00000129A.n.24.1	M00001604A:C07	81409
2818	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
2818	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
2819	2/24/98	864	RTA00000129A.n.17.1	M00001604A:A09	79811
2820	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
2820	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
2821	2/24/98	875	RTA00000129A.k.22.1	M00001601A:E02	79639
2822	2/24/98	406	RTA00000129A.k.12.1	M00001601A:A06	79322
2823	2/24/98	179	RTA00000418F.i.19.1	M00001596D:E03	79180
2824	2/24/98	759	RTA00000399F.o.06.1	M00001595D:G03	13574
2825	2/24/98	306	RTA00000404F.d.13.1	M00001595D:A04	39036
2826	2/24/98	1055	RTA00000346F.a.04.1	M00001607B:C05	5382
2827	2/24/98	350	RTA00000129A.p.3.1	M00001604A:B08	32644

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2828	2/24/98	721	RTA00000422F.k.14.1	M00001649D:A08	0
2829	2/24/98	391	RTA00000130A.h.16.1	M00001617A:A08	80761
2830	2/24/98	962	RTA00000404F.p.05.2	M00001652D:E09	1896
2831	2/24/98	65	RTA00000404F.p.04.2	M00001652D:E05	39069
2832	2/24/98	1108	RTA00000346F.c.16.1	M00001652B:G10	9579
2833	2/24/98	1200	RTA00000422F.k.17.1	M00001652A:A01	38955
2834	2/24/98	1218	RTA00000418F.m.18.1	M00001653B:G10	76479
2835	2/24/98	171	RTA00000404F.n.20.1	M00001650A:C11	26865
2836	2/24/98	180	RTA00000400F.j.19.1	M00001653C:D10	4086
2837	2/24/98	556	RTA00000400F.i.11.1	M00001649C:H10	2587
2838	2/24/98	848	RTA00000404F.n.18.2	M00001649C:E11	37169
2839	2/24/98	29	RTA00000404F.n.16.2	M00001649C:D05	39095
2840	2/24/98	146	RTA00000404F.n.11.2	M00001649A:E11	38001
2841	2/24/98	700	RTA00000350R.m.14.1	M00001644C:B07	39171
2842	2/24/98	699	RTA00000340F.l.05.1	M00001644B:D06	38935
2843	2/24/98	479	RTA00000418F.m.10.1	M00001651A:H11	79110
2844	2/24/98	1169	RTA00000405F.b.08.1	M00001656B:E01	39182
2845	2/24/98	855	RTA00000423F.a.01.1	M00001659C:F10	39103
2846	2/24/98	363	RTA00000405F.c.11.1	M00001659A:D12	39068
2847	2/24/98	807	RTA00000418F.n.11.1	M00001658D:G12	78977
2848	2/24/98	795	RTA00000418F.n.07.1	M00001658B:A07	76316
2849	2/24/98	109	RTA00000422F.p.24.2	M00001658A:G09	5823
2850	2/24/98	696	RTA00000404F.p.12.2	M00001653B:C06	0
2851	2/24/98	369	RTA00000410F.m.05.1	M00001657B:B04	74964
2852	2/24/98	1229	RTA00000422F.n.14.1	M00001642C:G02	26787
2853	2/24/98	529	RTA00000422F.o.19.2	M00001655C:E01	13084
2854	2/24/98	327	RTA00000405F.a.11.1	M00001655A:B11	39124
2855	2/24/98	393	RTA00000418F.m.24.1	M00001654D:F12	77114
2856	2/24/98	381	RTA00000418F.m.23.1	M00001654D:F11	77195
2857	2/24/98	877	RTA00000418F.m.22.1	M00001654D:E12	74567
2858	2/24/98	166	RTA00000418F.m.19.1	M00001654D:A03	8890
2859	2/24/98	291	RTA00000405F.c.01.1	M00001657D:A04	19236
2860	2/24/98	356	RTA00000409F.m.24.1	M00001620D:H02	3942
2861	2/24/98	717	RTA00000404F.i.22.1	M00001625C:G05	39082
2862	2/24/98	648	RTA00000340F.i.13.1	M00001624B:B10	79299
2863	2/24/98	914	RTA00000138A.m.15.1	M00001624A:A03	41603
2864	2/24/98	587	RTA00000130A.o.21.1	M00001623A:F04	80218
2865	2/24/98	22	RTA00000130A.m.15.1	M00001622A:H12	81630
2866	2/24/98	767	RTA00000138A.p.10.1	M00001644A:H01	81625
2867	2/24/98	262	RTA00000409F.n.14.1	M00001621B:G05	78190
2868	2/24/98	960	RTA00000404F.l.19.2	M00001639B:H01	16196
2869	2/24/98	608	RTA00000404F.i.12.1	M00001620D:G11	39001
2870	2/24/98	342	RTA00000404F.i.02.1	M00001619D:D10	39015
2871	2/24/98	195	RTA00000404F.h.22.1	M00001619C:C07	18735
2872	2/24/98	214	RTA00000404F.h.19.1	M00001619A:E05	8096
2873	2/24/98	52	RTA00000409F.m.12.1	M00001618B:D09	73490
2874	2/24/98	769	RTA00000340F.i.10.1	M00001618A:F10	38561
2875	2/24/98	383	RTA00000404F.i.18.1	M00001621C:H12	21912
2876	2/24/98	256	RTA00000404F.m.03.2	M00001640A:H02	11799
2877	2/24/98	519	RTA00000404F.l.10.1	M00001638B:F10	23136

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2878	2/24/98	646	RTA00000421F.m.14.1	M00001642A:F03	3524
2879	2/24/98	659	RTA00000422F.m.24.1	M00001641D:C04	39159
2880	2/24/98	701	RTA00000418F.l.11.1	M00001641C:H07	77158
2881	2/24/98	873	RTA00000418F.l.06.1	M00001641C:F01	73317
2882	2/24/98	422	RTA00000418F.l.04.1	M00001641C:D02	74140
2883	2/24/98	766	RTA00000404F.j.01.1	M00001625D:G10	26859
2884	2/24/98	20	RTA00000404F.m.04.2	M00001641A:A11	22720
2885	2/24/98	346	RTA00000418F.j.08.1	M00001626C:C11	73382
2886	2/24/98	141	RTA00000418F.k.19.1	M00001639C:C02	74932
2887	2/24/98	373	RTA00000418F.k.18.1	M00001639C:A10	75385
2888	2/24/98	405	RTA00000418F.k.17.1	M00001639C:A09	75390
2889	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
2889	2/24/98	133	RTA00000404F.l.20.1	M00001639B:H05	38638
2890	2/24/98	133	RTA00000404F.l.20.1	M00001639B:H05	38638
2890	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
2891	2/24/98	1261	RTA00000404F.m.17.2	M00001643B:E05	0
2892	2/24/98	626	RTA00000410F.j.01.1	M00001641B:F12	73399
2893	2/24/98	982	RTA00000126A.p.23.2	M00001552A:F06	80915
2894	2/24/98	196	RTA00000418F.k.10.1	M00001639A:G07	74454
2895	2/24/98	765	RTA00000137A.j.15.4	M00001559A:C08	4213
2896	2/24/98	895	RTA00000137A.j.11.4	M00001559A:A11	79752
2897	2/24/98	232	RTA00000128A.b.20.1	M00001558A:G09	79761
2898	2/24/98	152	RTA00000127A.i.20.1	M00001555A:B12	81418
2899	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
2899	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
2900	2/24/98	448	RTA00000127A.a.3.1	M00001552A:H10	13232
2901	2/24/98	801	RTA00000128A.m.23.1	M00001561A:D01	81441
2902	2/24/98	499	RTA00000126A.p.18.2	M00001552A:E10	80881
2903	2/24/98	1212	RTA00000349R.o.03.1	M00001551D:H07	23006
2904	2/24/98	484	RTA00000126A.n.13.2	M00001551A:H06	79735
2905	2/24/98	240	RTA00000126A.n.7.2	M00001551A:D06	79557
2906	2/24/98	451	RTA00000126A.o.22.1	M00001551A:A11	81752
2907	2/24/98	513	RTA00000126A.k.7.2	M00001550A:E07	79866
2908	2/24/98	578	RTA00000127A.f.11.1	M00001554A:A08	81463
2909	2/24/98	372	RTA00000408F.p.24.1	M00001579A:E03	74286
2910	2/24/98	985	RTA00000409F.a.08.1	M00001582D:B01	74978
2911	2/24/98	685	RTA00000129A.a.13.2	M00001582A:A03	79780
2912	2/24/98	574	RTA00000403F.o.14.1	M00001579D:H09	38971
2913	2/24/98	601	RTA00000403F.o.13.1	M00001579D:F04	39049
2914	2/24/98	432	RTA00000418F.g.05.1	M00001579C:H06	73075
2915	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
2915	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
2916	2/24/98	491	RTA00000418F.f.21.1	M00001579B:F04	75157
2917	2/24/98	612	RTA00000125A.k.14.1	M00001545A:G05	79457
2918	1/28/98	248	RTA00000198R.c.14.1	M00001578D:C04	39814
2918	2/24/98	778	RTA00000347F.e.05.1	M00001578D:C04	39814
2919	1/28/98	248	RTA00000198R.c.14.1	M00001578D:C04	39814
2919	2/24/98	778	RTA00000347F.e.05.1	M00001578D:C04	39814
2920	2/24/98	361	RTA00000422F.d.16.1	M00001570C:G03	39133
2921	2/24/98	173	RTA00000418F.d.13.1	M00001570A:H01	74309

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2922	2/24/98	1195	RTA00000422F.e.23.1	M00001567D:B03	19246
2923	2/24/98	1168	RTA00000421F.b.06.1	M00001567A:B09	2113
2924	2/24/98	580	RTA00000403F.o.07.1	M00001579C:A01	39037
2925	2/24/98	531	RTA00000345F.n.12.1	M00001528A:C04	7337
2926	2/24/98	154	RTA00000340F.b.21.1	M00001533D:A08	8001
2927	2/24/98	19	RTA00000123A.k.23.1	M00001533A:G05	80313
2928	2/24/98	1265	RTA00000340F.d.07.1	M00001532D:A06	0
2929	2/24/98	1124	RTA00000123A.h.22.1	M00001532A:C01	17124
2930	2/24/98	1241	RTA00000408F.l.14.1	M00001530A:E10	12001
2931	2/24/98	534	RTA00000126A.g.7.1	M00001548A:H04	1902
2932	2/24/98	694	RTA00000418F.c.07.1	M00001529D:C05	73245
2933	2/24/98	1034	RTA00000124A.f.16.3	M00001536A:F11	47430
2934	2/24/98	790	RTA00000345F.n.08.1	M00001517A:B11	0
2935	2/24/98	613	RTA00000122A.j.22.1	M00001516A:F06	81151
2936	2/24/98	885	RTA00000122A.j.17.1	M00001516A:D02	62736
2937	2/24/98	1262	RTA00000122A.h.4.1	M00001514A:G03	33576
2938	2/24/98	135	RTA00000122A.d.5.1	M00001513A:F05	81155
2939	1/28/98	391	RTA00000179AF.e.20.3	M00001396A:C03	4009
2940	2/24/98	537	RTA00000408F.l.09.1	M00001530A:A09	75487
2941	2/24/98	683	RTA00000403F.j.21.1	M00001540D:E02	24723
2942	2/24/98	343	RTA00000422F.g.21.1	M00001583A:F07	17232
2943	2/24/98	226	RTA00000125A.k.10.1	M00001545A:F02	81644
2944	2/24/98	763	RTA00000135A.m.18.1	M00001545A:C03	19255
2945	2/24/98	156	RTA00000125A.k.1.1	M00001545A:B12	0
2946	2/24/98	597	RTA00000135A.l.1.2	M00001545A:B10	39426
2947	2/24/98	586	RTA00000125A.g.24.1	M00001544A:F05	80397
2948	2/24/98	467	RTA00000123A.n.13.2	M00001534A:D03	39167
2949	2/24/98	830	RTA00000347F.b.08.1	M00001541B:E05	17591
2950	2/24/98	997	RTA00000134A.l.9.1	M00001535A:D10	81814
2951	2/24/98	371	RTA00000403F.j.17.1	M00001539D:B10	38563
2952	2/24/98	33	RTA00000403F.j.15.1	M00001539B:G07	23840
2953	2/24/98	1209	RTA00000408F.n.05.2	M00001539A:H02	77883
2954	2/24/98	530	RTA00000408F.n.02.2	M00001539A:E01	76993
2955	2/24/98	1213	RTA00000135A.a.23.1	M00001537A:H05	27054
2956	2/24/98	347	RTA00000125A.n.4.1	M00001546A:D08	81984
2957	2/24/98	472	RTA00000135A.f.14.2	M00001542A:G12	79969
2958	2/24/98	243	RTA00000410F.c.14.1	M00001634A:H05	77809
2959	2/24/98	919	RTA00000410F.d.18.1	M00001635D:D05	75458
2960	2/24/98	825	RTA00000404F.k.22.2	M00001635D:C12	39084
2960	2/24/98	364	RTA00000404F.k.22.1	M00001635D:C12	39084
2961	2/24/98	825	RTA00000404F.k.22.2	M00001635D:C12	39084
2961	2/24/98	364	RTA00000404F.k.22.1	M00001635D:C12	39084
2962	2/24/98	595	RTA00000410F.d.10.1	M00001635B:H02	77561
2963	2/24/98	175	RTA00000410F.d.09.1	M00001635B:H01	76964
2964	2/24/98	206	RTA00000410F.b.15.1	M00001633C:F09	77100
2965	2/24/98	1083	RTA00000418F.j.20.1	M00001634D:D04	77101
2966	2/24/98	922	RTA00000410F.e.09.1	M00001636A:F08	76093
2967	2/24/98	1035	RTA00000404F.k.15.1	M00001634A:B04	18225
2968	2/24/98	1167	RTA00000410F.c.06.1	M00001633D:H06	77784
2969	2/24/98	53	RTA00000410F.c.04.1	M00001633D:G09	74099

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
2970	2/24/98	567	RTA00000410F.c.02.1	M00001633D:D12	75055
2971	2/24/98	819	RTA00000410F.b.24.1	M00001633D:D09	75104
2972	2/24/98	666	RTA00000403F.o.19.1	M00001582D:F02	78615
2973	2/24/98	559	RTA00000418F.k.03.1	M00001634D:G11	78901
2974	2/24/98	999	RTA00000418F.k.04.1	M00001637A:A03	75864
2975	2/24/98	936	RTA00000121A.n.23.1	M00001511A:G01	26981
2976	2/24/98	201	RTA00000404F.l.09.1	M00001638B:E12	39176
2977	2/24/98	1160	RTA00000400F.g.02.1	M00001638B:E03	1508
2978	2/24/98	827	RTA00000410F.f.12.1	M00001637C:E03	73883
2979	2/24/98	622	RTA00000404F.l.07.1	M00001637C:C06	10798
2980	2/24/98	365	RTA00000418F.k.07.1	M00001637A:F10	75067
2981	2/24/98	248	RTA00000404F.k.24.1	M00001636A:C03	15256
2982	2/24/98	25	RTA00000418F.k.05.1	M00001637A:A06	73021
2983	2/24/98	1178	RTA00000400F.f.11.1	M00001636A:E07	4088
2984	2/24/98	1180	RTA00000404F.l.05.1	M00001636D:F09	38671
2985	2/24/98	711	RTA00000404F.l.03.2	M00001636B:G11	40272
2985	2/24/98	785	RTA00000404F.l.03.1	M00001636B:G11	40272
2986	2/24/98	785	RTA00000404F.l.03.1	M00001636B:G11	40272
2986	2/24/98	711	RTA00000404F.l.03.2	M00001636B:G11	40272
2987	2/24/98	711	RTA00000404F.l.03.2	M00001636B:G11	40272
2987	2/24/98	785	RTA00000404F.l.03.1	M00001636B:G11	40272
2988	2/24/98	711	RTA00000404F.l.03.2	M00001636B:G11	40272
2988	2/24/98	785	RTA00000404F.l.03.1	M00001636B:G11	40272
2989	2/24/98	1106	RTA00000410F.b.17.1	M00001633C:H05	77458
2990	2/24/98	253	RTA00000400F.f.18.1	M00001637A:E10	3764
2991	2/24/98	562	RTA00000401F.j.17.1	M00003901B:C05	5483
2992	2/24/98	1082	RTA00000137A.o.22.1	M00001587A:D01	0
2993	2/24/98	594	RTA00000129A.c.18.2	M00001587A:B10	37216
2994	2/24/98	891	RTA00000137A.p.12.1	M00001587A:B01	80614
2995	2/24/98	131	RTA00000418F.g.22.1	M00001585B:F01	74837
2996	2/24/98	880	RTA00000418F.g.20.1	M00001585B:C03	74626
2997	2/24/98	742	RTA00000410F.b.18.1	M00001633C:H11	76701
2998	2/24/98	879	RTA00000409F.b.19.1	M00001584D:H02	14479
2999	2/24/98	167	RTA00000399F.l.14.1	M00001590B:G08	3354
3000	2/24/98	1260	RTA00000422F.f.18.1	M00001583D:B08	24528
3000	2/24/98	1258	RTA00000403F.p.05.2	M00001583D:B08	24528
3001	2/24/98	1260	RTA00000422F.f.18.1	M00001583D:B08	24528
3001	2/24/98	1258	RTA00000403F.p.05.2	M00001583D:B08	24528
3002	2/24/98	1260	RTA00000422F.f.18.1	M00001583D:B08	24528
3002	2/24/98	1258	RTA00000403F.p.05.2	M00001583D:B08	24528
3003	2/24/98	1260	RTA00000422F.f.18.1	M00001583D:B08	24528
3003	2/24/98	1258	RTA00000403F.p.05.2	M00001583D:B08	24528
3004	2/24/98	67	RTA00000409F.a.22.1	M00001583B:F02	75200
3005	2/24/98	564	RTA00000418F.k.08.1	M00001639A:C03	18259
3006	1/28/98	282	RTA00000193AF.c.15.1	M00004248B:E08	3726
3007	2/24/98	242	RTA00000404F.j.08.1	M00001629B:B08	39066
3008	2/24/98	669	RTA00000410F.b.10.1	M00001633C:B09	74504
3009	2/24/98	725	RTA00000410F.b.07.1	M00001633C:A05	78916
3010	2/24/98	423	RTA00000410F.a.16.1	M00001633A:E06	73548
3011	2/24/98	695	RTA00000418F.j.15.1	M00001632C:H07	74855

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3012	2/24/98	901	RTA00000418F.j.14.1	M00001632C:B10	32623
3013	2/24/98	752	RTA00000410F.a.08.1	M00001632A:B10	73324
3014	2/24/98	1007	RTA00000404F.a.01.1	M00001589B:B08	19251
3015	2/24/98	1093	RTA00000340F.i.15.1	M00001629C:E07	26815
3016	2/24/98	664	RTA00000404F.a.09.1	M00001589C:E06	38985
3017	2/24/98	1246	RTA00000418F.j.11.1	M00001626C:E04	73853
3018	2/24/98	174	RTA00000404F.b.02.1	M00001591B:B12	38984
3019	2/24/98	1142	RTA00000418F.i.06.1	M00001591B:B06	75151
3020	2/24/98	740	RTA00000399F.l.19.1	M00001590D:G07	40145
3021	2/24/98	1098	RTA00000409F.d.16.1	M00001590C:F10	76090
3022	2/24/98	591	RTA00000409F.a.16.1	M00001583A:A05	73990
3023	2/24/98	1110	RTA00000404F.j.24.1	M00001631D:G05	39067
3024	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3024	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3024	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3025	1/28/98	68	RTA00000184F.k.19.1	M00001558B:D08	8022
3025	1/28/98	63	RTA00000184AF.k.19.1	M00001558B:D08	8022
3026	1/28/98	269	RTA00000183AF.k.13.1	M00001534B:C12	0
3027	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3027	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3027	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3028	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3028	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3028	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3029	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3029	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3029	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3030	1/28/98	34	RTA00000197AF.n.8.1	M00001536D:A12	4101
3031	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3031	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3031	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3032	1/28/98	106	RTA00000197AF.n.21.1	M00001540B:C09	0
3033	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3033	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3033	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3034	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3034	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3034	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3035	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3035	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3035	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3036	1/28/98	233	RTA00000197AF.l.8.1	M00001511B:C06	39954
3037	1/28/98	323	RTA00000182AF.m.21.1	M00001490C:C12	18699
3038	1/28/98	223	RTA00000197F.i.9.1	M00001488D:C10	0
3039	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3039	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3039	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3040	1/28/98	352	RTA00000197AF.p.3.1	M00001550A:A03	7239
3041	1/28/98	301	RTA00000181AR.i.19.3	M00001452C:B06	16970
3041	1/28/98	295	RTA00000181AR.i.19.2	M00001452C:B06	16970

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3042	1/28/98	68	RTA00000184F.k.19.1	M00001558B:D08	8022
3042	1/28/98	63	RTA00000184AF.k.19.1	M00001558B:D08	8022
3043	1/28/98	63	RTA00000184AF.k.19.1	M00001558B:D08	8022
3043	1/28/98	68	RTA00000184F.k.19.1	M00001558B:D08	8022
3044	1/28/98	41	RTA00000184F.k.12.1	M00001557D:D09	8761
3045	1/28/98	150	RTA00000184F.k.09.1	M00001557C:H07	7065
3046	1/28/98	82	RTA00000183AF.l.18.1	M00001535D:C01	3484
3047	1/28/98	338	RTA00000184AF.i.1.1	M00001554B:C07	0
3048	1/28/98	327	RTA00000182AF.i.1.3	M00001479B:A01	7033
3049	1/28/98	256	RTA00000184AR.e.15.1	M00001549C:E06	16347
3050	1/28/98	99	RTA00000184AF.d.8.1	M00001548A:A08	4393
3051	1/28/98	355	RTA00000184AR.b.24.1	M00001546B:C05	5777
3052	1/28/98	322	RTA00000184AR.b.21.1	M00001546B:B02	39788
3053	1/28/98	97	RTA00000197AF.o.2.1	M00001541C:B07	5739
3054	1/28/98	313	RTA00000183AF.o.11.1	M00001540D:D02	0
3055	1/28/98	42	RTA00000184F.j.21.1	M00001557A:D02	7065
3056	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3056	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3056	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3057	1/28/98	134	RTA00000197F.e.11.1	M00001454B:G03	2306
3057	1/28/98	298	RTA00000197AR.e.11.1	M00001454B:G03	2306
3058	1/28/98	134	RTA00000197F.e.11.1	M00001454B:G03	2306
3058	1/28/98	298	RTA00000197AR.e.11.1	M00001454B:G03	2306
3059	1/28/98	134	RTA00000197F.e.11.1	M00001454B:G03	2306
3059	1/28/98	298	RTA00000197AR.e.11.1	M00001454B:G03	2306
3060	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3060	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3060	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3061	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3061	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3061	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3062	1/28/98	159	RTA00000182AF.l.12.1	M00001487A:A05	1027
3063	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3063	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3063	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3064	1/28/98	341	RTA00000181AF.l.06.2	M00001454C:C08	0
3065	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3065	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3065	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3066	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3066	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3066	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3067	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3067	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3067	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3068	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3068	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3068	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3069	1/28/98	170	RTA00000197AF.d.23.1	M00001453A:E11	16130
3070	1/28/98	491	RTA00000196F.k.11.1	M00001399C:H12	3

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3071	1/28/98	119	RTA00000181AR.k.24.2	M00001454B:C12	7005
3071	1/28/98	378	RTA00000181AF.k.24.3	M00001454B:C12	7005
3071	1/28/98	116	RTA00000181AR.k.24.3	M00001454B:C12	7005
3072	1/28/98	674	RTA00000197AR.e.24.1	M00001456B:F10	39250
3072	1/28/98	3	RTA00000197AF.e.24.1	M00001456B:F10	39250
3073	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
3073	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
3074	1/28/98	189	RTA00000197AF.h.10.1	M00001476B:F10	15554
3075	1/28/98	46	RTA00000182AF.f.13.1	M00001470C:B10	8010
3076	1/28/98	200	RTA00000182AF.f.2.1	M00001469D:D02	4794
3077	1/28/98	325	RTA00000182AF.d.18.4	M00001467D:H05	37435
3078	1/28/98	45	RTA00000197AR.f.12.1	M00001458C:E01	3513
3079	1/28/98	298	RTA00000197AR.e.11.1	M00001454B:G03	2306
3079	1/28/98	134	RTA00000197F.e.11.1	M00001454B:G03	2306
3080	1/28/98	37	RTA00000181AF.n.15.2	M00001457A:B07	86128
3081	1/28/98	7	RTA00000197AR.e.12.1	M00001454B:G07	22095
3082	1/28/98	674	RTA00000197AR.e.24.1	M00001456B:F10	39250
3082	1/28/98	3	RTA00000197AF.e.24.1	M00001456B:F10	39250
3083	1/28/98	88	RTA00000197AF.e.23.1	M00001456B:C09	37157
3084	1/28/98	243	RTA00000181AF.m.15.3	M00001455D:A11	12081
3085	1/28/98	326	RTA00000197AR.e.19.1	M00001455D:A09	8047
3086	1/28/98	293	RTA00000197AF.e.13.1	M00001454C:F02	662
3087	1/28/98	380	RTA00000182AF.k.24.1	M00001485D:B10	5625
3088	1/28/98	206	RTA00000181AF.o.04.2	M00001457C:C12	22205
3089	1/28/98	228	RTA00000187AR.h.15.2	M00001679A:A06	6660
3090	1/28/98	68	RTA00000184F.k.19.1	M00001558B:D08	8022
3090	1/28/98	63	RTA00000184AF.k.19.1	M00001558B:D08	8022
3091	1/28/98	191	RTA00000187AF.p.23.1	M00003748B:F02	39804
3092	1/28/98	10	RTA00000198AF.n.16.1	M00001694C:H10	3721
3093	1/28/98	219	RTA00000198AF.m.19.1	M00001680D:D02	40041
3093	1/28/98	32	RTA00000198R.m.19.1	M00001680D:D02	40041
3094	1/28/98	32	RTA00000198R.m.19.1	M00001680D:D02	40041
3094	1/28/98	219	RTA00000198AF.m.19.1	M00001680D:D02	40041
3095	1/28/98	317	RTA00000198AF.p.09.1	M00003761D:E02	10473
3095	1/28/98	186	RTA00000198R.p.09.1	M00003761D:E02	10473
3096	1/28/98	219	RTA00000198AF.m.19.1	M00001680D:D02	40041
3096	1/28/98	32	RTA00000198R.m.19.1	M00001680D:D02	40041
3097	1/28/98	64	RTA00000198AF.p.12.1	M00003763D:E10	8878
3097	1/28/98	542	RTA00000198R.p.12.1	M00003763D:E10	8878
3098	1/28/98	364	RTA00000187AF.g.13.1	M00001676C:C11	2991
3099	1/28/98	430	RTA00000198R.k.23.1	M00001661B:C08	8995
3099	1/28/98	294	RTA00000198AF.k.23.1	M00001661B:C08	8995
3100	1/28/98	430	RTA00000198R.k.23.1	M00001661B:C08	8995
3100	1/28/98	294	RTA00000198AF.k.23.1	M00001661B:C08	8995
3101	1/28/98	57	RTA00000198AF.k.20.1	M00001660C:B12	22553
3102	1/28/98	368	RTA00000198AF.k.18.1	M00001660A:C12	17432
3103	1/28/98	247	RTA00000198AF.k.08.1	M00001656C:G08	17436
3104	1/28/98	219	RTA00000198AF.m.19.1	M00001680D:D02	40041
3104	1/28/98	32	RTA00000198R.m.19.1	M00001680D:D02	40041
3105	1/28/98	199	RTA00000199R.c.09.1	M00003800A:C09	16824

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3105	1/28/98	66	RTA00000199F.c.09.2	M00003800A:C09	16824
3106	1/28/98	225	RTA00000189AF.b.5.1	M00003828A:E04	3784
3107	1/28/98	5	RTA00000195R.c.11.1	M00003811A:E03	66087
3108	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
3108	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
3109	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
3109	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
3110	1/28/98	2	RTA00000188AF.n.15.1	M00003804A:H04	0
3111	1/28/98	317	RTA00000198AF.p.09.1	M00003761D:E02	10473
3111	1/28/98	186	RTA00000198R.p.09.1	M00003761D:E02	10473
3112	1/28/98	199	RTA00000199R.c.09.1	M00003800A:C09	16824
3112	1/28/98	66	RTA00000199F.c.09.2	M00003800A:C09	16824
3113	1/28/98	487	RTA00000198F.i.8.1	M00001639A:F10	9807
3113	1/28/98	277	RTA00000198AR.i.08.1	M00001639A:F10	9807
3114	1/28/98	66	RTA00000199F.c.09.2	M00003800A:C09	16824
3114	1/28/98	199	RTA00000199R.c.09.1	M00003800A:C09	16824
3115	1/28/98	224	RTA00000188AF.m.11.1	M00003799A:D09	0
3116	1/28/98	58	RTA00000199F.b.01.2	M00003778A:D08	19118
3117	1/28/98	216	RTA00000188AF.g.9.1	M00003774B:B08	4959
3118	1/28/98	201	RTA00000198AF.p.18.1	M00003769B:D03	23081
3119	1/28/98	542	RTA00000198R.p.12.1	M00003763D:E10	8878
3119	1/28/98	64	RTA00000198AF.p.12.1	M00003763D:E10	8878
3120	1/28/98	199	RTA00000199R.c.09.1	M00003800A:C09	16824
3120	1/28/98	66	RTA00000199F.c.09.2	M00003800A:C09	16824
3121	1/28/98	146	RTA00000185AF.a.19.2	M00001571C:H06	5749
3122	1/28/98	248	RTA00000198R.c.14.1	M00001578D:C04	39814
3122	2/24/98	778	RTA00000347F.e.05.1	M00001578D:C04	39814
3123	1/28/98	248	RTA00000198R.c.14.1	M00001578D:C04	39814
3123	2/24/98	778	RTA00000347F.e.05.1	M00001578D:C04	39814
3124	1/28/98	147	RTA00000185AF.c.24.2	M00001578B:E04	23001
3125	1/28/98	195	RTA00000198AF.c.10.1	M00001577B:H02	77149
3126	1/28/98	171	RTA00000198R.c.07.1	M00001575D:G05	19181
3126	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
3127	1/28/98	172	RTA00000186AF.p.09.2	M00001655C:E04	6879
3128	1/28/98	230	RTA00000185AR.b.18.1	M00001575B:C09	12171
3129	1/28/98	192	RTA00000185AF.m.7.1	M00001605C:D12	39804
3130	1/28/98	19	RTA00000185AF.a.8.1	M00001570D:A03	4868
3131	1/28/98	492	RTA00000198AF.b.8.1	M00001567C:H12	22636
3131	1/28/98	23	RTA00000198R.b.08.1	M00001567C:H12	22636
3132	1/28/98	23	RTA00000198R.b.08.1	M00001567C:H12	22636
3132	1/28/98	492	RTA00000198AF.b.8.1	M00001567C:H12	22636
3133	1/28/98	357	RTA00000184AF.o.15.1	M00001564D:C09	0
3134	1/28/98	30	RTA00000184AR.n.07.2	M00001561C:F06	0
3135	1/28/98	59	RTA00000195AF.b.13.1	M00001560D:A03	12605
3135	2/24/98	78	RTA00000195AF.b.13.1	M00001560D:A03	12605
3136	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
3136	1/28/98	171	RTA00000198R.c.07.1	M00001575D:G05	19181
3137	1/28/98	303	RTA00000186AR.e.03.3	M00001623D:C10	22110
3138	1/28/98	295	RTA00000181AR.i.19.2	M00001452C:B06	16970
3138	1/28/98	301	RTA00000181AR.i.19.3	M00001452C:B06	16970

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3139	1/28/98	232	RTA00000186AF.j.03.2	M00001638A:E07	0
3140	1/28/98	309	RTA00000198AF.h.12.1	M00001632C:A02	9503
3141	1/28/98	268	RTA00000186AF.h.01.2	M00001632A:F12	0
3142	1/28/98	267	RTA00000186AF.g.11.2	M00001630B:H09	5214
3143	1/28/98	83	RTA00000186AF.f.24.2	M00001629B:E06	0
3143	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
3144	1/28/98	222	RTA00000185AF.i.4.1	M00001594A:B12	13942
3145	1/28/98	217	RTA00000198AF.h.3.1	M00001625D:C07	22562
3146	1/28/98	196	RTA00000198F.e.10.1	M00001599B:E09	9727
3147	1/28/98	372	RTA00000186AF.d.23.1	M00001623B:G07	22187
3148	1/28/98	302	RTA00000186AF.d.1.2	M00001621C:C08	40044
3149	1/28/98	262	RTA00000186AF.c.17.1	M00001619D:G05	8551
3150	1/28/98	358	RTA00000198AF.g.7.1	M00001616C:C09	13386
3151	1/28/98	166	RTA00000198AF.f.21.1	M00001614D:D09	22676
3152	1/28/98	277	RTA00000198AR.i.08.1	M00001639A:F10	9807
3152	1/28/98	487	RTA00000198F.i.8.1	M00001639A:F10	9807
3153	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
3153	1/28/98	83	RTA00000186AF.f.24.2	M00001629B:E06	0
3154	1/28/98	352	RTA00000197AF.p.3.1	M00001550A:A03	7239
3155	1/28/98	251	RTA00000192AF.n.13.1	M00004197D:H01	8210
3156	1/28/98	41	RTA00000184F.k.12.1	M00001557D:D09	8761
3157	1/28/98	731	RTA00000184F.k.02.1	M00001557B:H10	5192
3158	1/28/98	42	RTA00000184F.j.21.1	M00001557A:D02	7065
3159	1/28/98	42	RTA00000184F.j.21.1	M00001557A:D02	7065
3160	1/28/98	302	RTA00000186AF.d.1.2	M00001621C:C08	40044
3161	1/28/98	560	RTA00000184AF.i.23.3	M00001556A:F11	1577
3162	1/28/98	558	RTA00000186AR.h.14.1	M00001632D:H07	0
3163	1/28/98	256	RTA00000184AR.e.15.1	M00001549C:E06	16347
3164	1/28/98	682	RTA00000125A.j.16.1	M00001544A:E06	0
3165	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3165	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3165	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3166	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3166	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3166	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3167	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3167	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3167	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3168	2/24/98	531	RTA00000345F.n.12.1	M00001528A:C04	7337
3169	1/28/98	324	RTA00000184F.j.06.1	M00001556B:G02	11294
3170	2/24/98	604	RTA00000351R.c.13.1	M00003747D:C05	11476
3171	1/28/98	301	RTA00000181AR.i.19.3	M00001452C:B06	16970
3171	1/28/98	295	RTA00000181AR.i.19.2	M00001452C:B06	16970
3172	1/28/98	231	RTA00000192AF.l.13.2	M00004185C:C03	11443
3173	1/28/98	634	RTA00000192AF.j.6.1	M00004172C:D08	11494
3174	1/28/98	165	RTA00000192AF.g.23.1	M00004157C:A09	6455
3175	1/28/98	574	RTA00000192AF.f.3.1	M00004146C:C11	5257
3176	1/28/98	146	RTA00000185AF.a.19.2	M00001571C:H06	5749
3177	1/28/98	651	RTA00000189AR.d.22.2	M00003844C:B11	6539
3178	1/28/98	161	RTA00000183AF.e.23.2	M00001506D:A09	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3179	1/28/98	475	RTA00000187AR.m.3.3	M00001682C:B12	17055
3180	2/24/98	39	RTA00000187AF.l.7.1	M00001680D:F08	10539
3181	1/28/98	228	RTA00000187AR.h.15.2	M00001679A:A06	6660
3182	2/24/98	465	RTA00000350R.p.18.1	M00001676B:F05	11460
3183	1/28/98	575	RTA00000186AF.l.12.2	M00001645A:C12	19267
3184	2/24/98	700	RTA00000350R.m.14.1	M00001644C:B07	39171
3185	1/28/98	261	RTA00000192AF.a.24.1	M00004114C:F11	13183
3186	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3186	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3186	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3187	1/28/98	398	RTA00000177AR.l.13.3	M00001353A:G12	8078
3188	1/28/98	645	RTA00000177AF.k.9.1	M00001352A:E02	16245
3189	1/28/98	283	RTA00000177AF.i.8.4	M00001350A:H01	7187
3190	1/28/98	361	RTA00000177AR.g.16.4	M00001347A:B10	13576
3191	1/28/98	680	RTA00000177AF.f.10.1	M00001345A:E01	6420
3192	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3192	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3193	1/28/98	702	RTA00000177AR.b.8.5	M00001340B:A06	17062
3194	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3194	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3194	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3195	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3195	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3195	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3196	1/28/98	129	RTA00000134A.d.10.1	M00001528A:F09	18957
3196	1/28/98	236	RTA00000183AR.h.23.1	M00001528A:F09	18957
3196	1/28/98	108	RTA00000183AR.h.23.2	M00001528A:F09	18957
3197	1/28/98	435	RTA00000182AR.c.22.1	M00001467A:D08	16283
3198	1/28/98	635	RTA00000181AF.p.7.3	M00001460A:E01	38773
3199	1/28/98	362	RTA00000197AR.c.24.1	M00001450A:B12	82498
3200	2/24/98	442	RTA00000347F.b.02.1	M00001450A:A02	39304
3201	1/28/98	265	RTA00000177AF.e.14.1	M00001343D:H07	23255
3202	1/28/98	270	RTA00000178R.l.08.1	M00001383A:C03	39648
3203	1/28/98	472	RTA00000192AF.p.17.1	M00004214C:H05	11451
3204	1/28/98	603	RTA00000183AR.d.11.3	M00001504D:G06	6420
3205	1/28/98	519	RTA00000183AF.a.24.2	M00001499B:A11	10539
3206	1/28/98	435	RTA00000182AR.c.22.1	M00001467A:D08	16283
3207	2/24/98	158	RTA00000348R.j.16.1	M00001410A:D07	7005
3208	1/28/98	411	RTA00000179AF.j.13.3	M00001400B:H06	0
3209	1/28/98	742	RTA00000177AF.m.1.1	M00001353D:D10	14929
3210	1/28/98	270	RTA00000178R.l.08.1	M00001383A:C03	39648
3211	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3211	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3211	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3212	1/28/98	297	RTA00000178AF.f.9.3	M00001371C:E09	7172
3213	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
3213	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
3214	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
3214	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
3215	1/28/98	466	RTA00000177AF.p.20.1	M00001361A:A05	4141

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3216	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3216	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3216	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3217	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3217	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3218	1/28/98	391	RTA00000179AF.e.20.3	M00001396A:C03	4009
3219	1/28/98	370	RTA00000179AF.c.15.3	M00001392D:H06	2995
3219	1/28/98	460	RTA00000179AF.c.15.1	M00001392D:H06	2995
3220	1/28/98	47	RTA00000192AF.m.12.1	M00004191D:B11	0
3221	1/28/98	438	RTA00000180AR.g.03.4	M00001425A:C11	9024
3221	1/28/98	95	RTA00000180AF.g.3.1	M00001425A:C11	9024
3222	1/28/98	438	RTA00000180AR.g.03.4	M00001425A:C11	9024
3222	1/28/98	95	RTA00000180AF.g.3.1	M00001425A:C11	9024
3223	1/28/98	320	RTA00000196AF.m.13.1	M00001415B:E09	16290
3224	1/28/98	365	RTA00000196F.l.20.2	M00001410B:G05	22678
3225	1/28/98	80	RTA00000196AF.p.13.2	M00001432A:E06	6125
3226	1/28/98	179	RTA00000179AF.f.20.3	M00001397B:B09	16154
3227	1/28/98	379	RTA00000180AF.l.06.2	M00001433A:G07	5625
3228	1/28/98	460	RTA00000179AF.c.15.1	M00001392D:H06	2995
3228	1/28/98	370	RTA00000179AF.c.15.3	M00001392D:H06	2995
3229	1/28/98	107	RTA00000196R.i.13.1	M00001390A:A09	9857
3230	1/28/98	120	RTA00000178AR.m.19.5	M00001384D:H07	0
3230	1/28/98	377	RTA00000178AF.m.19.1	M00001384D:H07	0
3231	1/28/98	120	RTA00000178AR.m.19.5	M00001384D:H07	0
3231	1/28/98	377	RTA00000178AF.m.19.1	M00001384D:H07	0
3232	1/28/98	384	RTA00000196AF.h.17.1	M00001384C:F12	39215
3233	1/28/98	182	RTA00000196AF.h.16.1	M00001384C:E03	39895
3234	1/28/98	105	RTA00000179AF.g.12.3	M00001398A:G03	36390
3235	1/28/98	252	RTA00000181AF.e.18.3	M00001448D:C09	8
3235	1/28/98	253	RTA00000181AF.e.17.3	M00001448D:C09	8
3236	1/28/98	301	RTA00000181AR.i.19.3	M00001452C:B06	16970
3236	1/28/98	295	RTA00000181AR.i.19.2	M00001452C:B06	16970
3237	1/28/98	288	RTA00000181AR.i.06.3	M00001452A:C07	19119
3237	2/24/98	198	RTA00000339R.l.14.1	M00001452A:C07	19119
3238	1/28/98	288	RTA00000181AR.i.06.3	M00001452A:C07	19119
3238	2/24/98	198	RTA00000339R.l.14.1	M00001452A:C07	19119
3239	1/28/98	109	RTA00000197AF.d.12.1	M00001451D:C10	39546
3240	1/28/98	149	RTA00000181AR.h.06.3	M00001450D:D04	87226
3241	1/28/98	75	RTA00000180AR.h.19.2	M00001428A:H10	84182
3242	1/28/98	21	RTA00000131A.g.19.2	M00001449A:G10	36535
3243	1/28/98	308	RTA00000178AF.j.20.1	M00001380C:E05	15066
3244	1/28/98	253	RTA00000181AF.e.17.3	M00001448D:C09	8
3244	1/28/98	252	RTA00000181AF.e.18.3	M00001448D:C09	8
3245	1/28/98	252	RTA00000181AF.e.18.3	M00001448D:C09	8
3245	1/28/98	253	RTA00000181AF.e.17.3	M00001448D:C09	8
3246	1/28/98	253	RTA00000181AF.e.17.3	M00001448D:C09	8
3246	1/28/98	252	RTA00000181AF.e.18.3	M00001448D:C09	8
3247	1/28/98	136	RTA00000197AF.c.10.1	M00001448B:F06	10400
3248	1/28/98	177	RTA00000197AF.c.3.1	M00001447C:C01	3145
3249	1/28/98	204	RTA00000180AR.o.5.2	M00001437D:C04	7848

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3250	1/28/98	362	RTA00000197AR.c.24.1	M00001450A:B12	82498
3251	1/28/98	81	RTA00000196AF.b.15.1	M00001347B:E01	5102
3252	1/28/98	342	RTA00000196AF.d.10.1	M00001354C:B06	22256
3253	1/28/98	113	RTA00000196AF.d.09.1	M00001354B:B10	16934
3254	1/28/98	463	RTA00000177AR.k.23.4	M00001352D:D02	35550
3254	1/28/98	168	RTA00000177AR.k.23.1	M00001352D:D02	35550
3255	1/28/98	463	RTA00000177AR.k.23.4	M00001352D:D02	35550
3255	1/28/98	168	RTA00000177AR.k.23.1	M00001352D:D02	35550
3256	1/28/98	135	RTA00000196AF.c.22.1	M00001352D:C05	22548
3257	1/28/98	270	RTA00000178R.l.08.1	M00001383A:C03	39648
3258	1/28/98	359	RTA00000196AF.b.17.1	M00001348A:D04	12193
3259	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3259	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3259	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3260	1/28/98	361	RTA00000177AR.g.16.4	M00001347A:B10	13576
3261	1/28/98	265	RTA00000177AF.e.14.1	M00001343D:H07	23255
3262	1/28/98	56	RTA00000177AF.e.9.1	M00001343D:C04	37442
3263	1/28/98	48	RTA00000177AR.a.23.5	M00001339D:G02	6995
3264	2/24/98	308	RTA00000353R.d.11.1	M00004692A:H08	0
3265	1/28/98	164	RTA00000193AR.i.14.4	M00004307C:A06	9457
3266	1/28/98	283	RTA00000177AF.i.8.4	M00001350A:H01	7187
3267	1/28/98	15	RTA00000177AR.n.8.1	M00001356D:F06	4188
3267	1/28/98	89	RTA00000177AF.n.8.3	M00001356D:F06	4188
3268	1/28/98	383	RTA00000199F.f.20.2	M00003847B:G03	0
3269	1/28/98	132	RTA00000178AF.f.20.3	M00001372C:F07	39881
3270	1/28/98	296	RTA00000196AF.f.20.1	M00001371D:G01	22774
3271	1/28/98	297	RTA00000178AF.f.9.3	M00001371C:E09	7172
3272	1/28/98	240	RTA00000178AF.e.1.1	M00001369A:H12	2664
3273	1/28/98	16	RTA00000196AF.e.16.1	M00001363C:H02	39252
3274	1/28/98	112	RTA00000177AF.m.8.1	M00001354C:C10	8010
3275	1/28/98	154	RTA00000196F.e.7.1	M00001360D:E11	1039
3276	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3276	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3276	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3277	1/28/98	89	RTA00000177AF.n.8.3	M00001356D:F06	4188
3277	1/28/98	15	RTA00000177AR.n.8.1	M00001356D:F06	4188
3278	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3278	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3278	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3279	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3279	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3279	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3280	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3280	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3280	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3281	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3281	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3281	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3282	1/28/98	169	RTA00000196AF.g.24.1	M00001380C:F02	8685
3283	1/28/98	363	RTA00000196AF.e.14.1	M00001362C:A10	12850

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3284	1/28/98	92	RTA00000198AF.j.18.1	M00001653B:G07	22759
3284	1/28/98	433	RTA00000198R.j.18.1	M00001653B:G07	22759
3285	1/28/98	537	RTA00000188AF.g.14.1	M00003774C:D02	0
3286	1/28/98	434	RTA00000187AR.d.2.2	M00001664C:H10	4892
3287	1/28/98	703	RTA00000198F.l.09.1	M00001664B:D06	3611
3288	1/28/98	430	RTA00000198R.k.23.1	M00001661B:C08	8995
3288	1/28/98	294	RTA00000198AF.k.23.1	M00001661B:C08	8995
3289	1/28/98	294	RTA00000198AF.k.23.1	M00001661B:C08	8995
3289	1/28/98	430	RTA00000198R.k.23.1	M00001661B:C08	8995
3290	1/28/98	754	RTA00000187AF.l.11.1	M00001681A:F03	4482
3291	1/28/98	732	RTA00000186AF.p.01.2	M00001654D:G11	40440
3292	1/28/98	475	RTA00000187AR.m.3.3	M00001682C:B12	17055
3293	1/28/98	433	RTA00000198R.j.18.1	M00001653B:G07	22759
3293	1/28/98	92	RTA00000198AF.j.18.1	M00001653B:G07	22759
3294	1/28/98	555	RTA00000198AF.j.08.1	M00001651B:A11	10983
3295	1/28/98	399	RTA00000186AF.m.15.2	M00001649C:B10	40122
3296	1/28/98	575	RTA00000186AF.l.12.2	M00001645A:C12	19267
3297	1/28/98	666	RTA00000198F.i.10.1	M00001640B:F03	12792
3298	1/28/98	654	RTA00000186AF.j.21.2	M00001639D:B07	22506
3299	1/28/98	670	RTA00000186AF.p.17.3	M00001656B:A07	38383
3300	1/28/98	393	RTA00000188AF.b.14.1	M00003754D:D02	0
3301	1/28/98	422	RTA00000189AF.b.12.1	M00003829B:G03	17233
3301	1/28/98	210	RTA00000189AR.b.12.1	M00003829B:G03	17233
3302	1/28/98	587	RTA00000199F.a.3.1	M00003772D:E10	16617
3303	1/28/98	394	RTA00000198AF.p.22.1	M00003771A:G10	0
3304	1/28/98	542	RTA00000198R.p.12.1	M00003763D:E10	8878
3304	1/28/98	64	RTA00000198AF.p.12.1	M00003763D:E10	8878
3305	1/28/98	64	RTA00000198AF.p.12.1	M00003763D:E10	8878
3305	1/28/98	542	RTA00000198R.p.12.1	M00003763D:E10	8878
3306	1/28/98	465	RTA00000187AF.k.20.1	M00001680B:C01	3648
3307	1/28/98	423	RTA00000188AR.b.17.1	M00003755A:B03	10662
3308	1/28/98	711	RTA00000198F.i.2.1	M00001637B:E07	8076
3309	1/28/98	497	RTA00000198AF.o.09.1	M00003751B:A05	4310
3309	1/28/98	506	RTA00000198R.o.09.1	M00003751B:A05	4310
3310	1/28/98	506	RTA00000198R.o.09.1	M00003751B:A05	4310
3310	1/28/98	497	RTA00000198AF.o.09.1	M00003751B:A05	4310
3311	1/28/98	432	RTA00000198AF.o.05.1	M00003750A:D01	26702
3311	1/28/98	49	RTA00000198R.o.05.1	M00003750A:D01	26702
3312	1/28/98	49	RTA00000198R.o.05.1	M00003750A:D01	26702
3312	1/28/98	432	RTA00000198AF.o.05.1	M00003750A:D01	26702
3313	1/28/98	585	RTA00000198AF.n.18.1	M00001771A:A07	16715
3314	1/28/98	527	RTA00000198R.m.23.1	M00001684B:G03	38469
3315	1/28/98	471	RTA00000188AF.e.2.1	M00003763B:H01	0
3316	1/28/98	171	RTA00000198R.c.07.1	M00001575D:G05	19181
3316	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
3317	1/28/98	557	RTA00000198AF.d.9.1	M00001587D:A10	8841
3318	1/28/98	523	RTA00000198AF.d.4.1	M00001586D:E02	22435
3319	1/28/98	441	RTA00000185AF.e.6.1	M00001583B:E10	0
3320	1/28/98	439	RTA00000185AF.d.14.2	M00001579D:G07	8071
3321	1/28/98	561	RTA00000185AR.d.10.1	M00001579C:H10	0

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3322	1/28/98	277	RTA00000198AR.i.08.1	M00001639A:F10	9807
3322	1/28/98	487	RTA00000198F.i.8.1	M00001639A:F10	9807
3323	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
3323	1/28/98	171	RTA00000198R.c.07.1	M00001575D:G05	19181
3324	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
3324	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
3325	1/28/98	507	RTA00000198AF.c.5.1	M00001573D:F10	53802
3326	1/28/98	414	RTA00000185AR.b.15.1	M00001573D:F04	39813
3326	1/28/98	428	RTA00000185AF.b.15.2	M00001573D:F04	39813
3327	1/28/98	428	RTA00000185AF.b.15.2	M00001573D:F04	39813
3327	1/28/98	414	RTA00000185AR.b.15.1	M00001573D:F04	39813
3328	1/28/98	414	RTA00000185AR.b.15.1	M00001573D:F04	39813
3328	1/28/98	428	RTA00000185AF.b.15.2	M00001573D:F04	39813
3329	1/28/98	428	RTA00000185AF.b.15.2	M00001573D:F04	39813
3329	1/28/98	414	RTA00000185AR.b.15.1	M00001573D:F04	39813
3330	1/28/98	392	RTA00000185AF.b.11.2	M00001573C:D03	9024
3331	1/28/98	549	RTA00000198AF.c.16.1	M00001579C:B11	26801
3332	1/28/98	628	RTA00000198AF.g.16.1	M00001621D:D03	6602
3333	1/28/98	616	RTA00000188AF.m.07.1	M00003798D:E03	23183
3334	1/28/98	489	RTA00000186AF.h.22.1	M00001634B:C10	16485
3335	1/28/98	655	RTA00000186AF.g.8.2	M00001630B:A11	8065
3336	1/28/98	592	RTA00000186AF.e.18.1	M00001624C:A06	0
3337	1/28/98	713	RTA00000198AF.g.21.1	M00001624A:F09	6273
3338	1/28/98	554	RTA00000186AR.e.07.4	M00001623D:G03	4175
3338	1/28/98	400	RTA00000186AR.e.07.3	M00001623D:G03	4175
3339	1/28/98	467	RTA00000195AF.b.19.1	M00001589A:D12	77678
3340	1/28/98	646	RTA00000186AF.d.24.1	M00001623C:H07	3114
3341	1/28/98	740	RTA00000198AF.d.15.1	M00001590C:H08	5997
3342	1/28/98	504	RTA00000198AF.g.2.1	M00001615C:D02	16640
3343	1/28/98	470	RTA00000198AF.f.16.1	M00001614A:E06	0
3344	1/28/98	388	RTA00000185AF.n.17.1	M00001609B:A11	5336
3345	1/28/98	495	RTA00000185AF.j.21.1	M00001597A:E12	0
3346	2/24/98	317	RTA00000195AF.b.21.1	M00001595B:A09	39055
3346	1/28/98	602	RTA00000195AF.b.21.1	M00001595B:A09	39055
3347	1/28/98	487	RTA00000198F.i.8.1	M00001639A:F10	9807
3347	1/28/98	277	RTA00000198AR.i.08.1	M00001639A:F10	9807
3348	1/28/98	554	RTA00000186AR.e.07.4	M00001623D:G03	4175
3348	1/28/98	400	RTA00000186AR.e.07.3	M00001623D:G03	4175
3349	1/28/98	699	RTA00000178AF.a.12.1	M00001362B:H06	0
3350	1/28/98	416	RTA00000199F.a.5.1	M00003773B:G01	22134
3351	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3351	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3351	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3352	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3352	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3352	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3353	1/28/98	522	RTA00000178AR.h.17.2	M00001376A:C05	23824
3353	2/24/98	1095	RTA00000345F.c.12.1	M00001376A:C05	23824
3354	1/28/98	522	RTA00000178AR.h.17.2	M00001376A:C05	23824
3354	2/24/98	1095	RTA00000345F.c.12.1	M00001376A:C05	23824

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3355	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3355	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3355	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3356	1/28/98	566	RTA00000195F.a.4.1	M00001372C:G12	20470
3357	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3357	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3357	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3358	1/28/98	605	RTA00000196F.e.9.1	M00001361A:H07	23300
3359	1/28/98	532	RTA00000177AF.o.4.1	M00001358C:C06	0
3360	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3360	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3360	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3361	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3361	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3361	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3362	1/28/98	337	RTA00000177AR.m.17.3	M00001355B:G10	14391
3362	1/28/98	493	RTA00000177AF.m.17.1	M00001355B:G10	14391
3362	1/28/98	330	RTA00000177AR.m.17.4	M00001355B:G10	14391
3363	1/28/98	742	RTA00000177AF.m.1.1	M00001353D:D10	14929
3364	1/28/98	547	RTA00000196AF.g.8.1	M00001375B:G12	39665
3365	1/28/98	510	RTA00000178AF.n.23.1	M00001387B:E02	3298
3366	1/28/98	606	RTA00000179AR.e.01.4	M00001395A:C09	2493
3367	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
3367	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
3368	2/24/98	1065	RTA00000195R.a.06.1	M00001394A:E04	35265
3368	1/28/98	595	RTA00000195R.a.06.1	M00001394A:E04	35265
3369	1/28/98	370	RTA00000179AF.c.15.3	M00001392D:H06	2995
3369	1/28/98	460	RTA00000179AF.c.15.1	M00001392D:H06	2995
3370	1/28/98	370	RTA00000179AF.c.15.3	M00001392D:H06	2995
3370	1/28/98	460	RTA00000179AF.c.15.1	M00001392D:H06	2995
3371	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3371	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3371	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3372	1/28/98	675	RTA00000179AR.b.21.3	M00001392C:D05	4366
3372	2/24/98	1264	RTA00000345F.e.13.1	M00001392C:D05	4366
3373	1/28/98	168	RTA00000177AR.k.23.1	M00001352D:D02	35550
3373	1/28/98	463	RTA00000177AR.k.23.4	M00001352D:D02	35550
3374	1/28/98	652	RTA00000178AR.m.21.4	M00001385A:F12	7861
3374	1/28/98	653	RTA00000178AR.m.21.5	M00001385A:F12	7861
3375	1/28/98	653	RTA00000178AR.m.21.5	M00001385A:F12	7861
3375	1/28/98	652	RTA00000178AR.m.21.4	M00001385A:F12	7861
3376	1/28/98	672	RTA00000196AF.h.09.1	M00001382B:F12	8015
3377	1/28/98	668	RTA00000178AF.i.17.1	M00001377C:E12	0
3378	1/28/98	746	RTA00000178AF.i.01.2	M00001376B:F03	4
3379	1/28/98	656	RTA00000178AR.h.22.3	M00001376B:A08	19230
3379	1/28/98	657	RTA00000178AR.h.22.2	M00001376B:A08	19230
3379	2/24/98	1137	RTA00000345F.d.03.1	M00001376B:A08	19230
3380	1/28/98	675	RTA00000179AR.b.21.3	M00001392C:D05	4366
3380	2/24/98	1264	RTA00000345F.e.13.1	M00001392C:D05	4366
3381	1/28/98	651	RTA00000189AR.d.22.2	M00003844C:B11	6539

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3382	1/28/98	444	RTA00000189AF.l.16.1	M00003879A:G05	0
3383	1/28/98	648	RTA00000199F.i.9.1	M00003878C:E04	7
3384	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0
3384	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
3385	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
3385	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0
3386	1/28/98	484	RTA00000199F.g.20.2	M00003860D:A01	15767
3387	1/28/98	398	RTA00000177AR.l.13.3	M00001353A:G12	8078
3388	1/28/98	556	RTA00000199F.f.17.2	M00003845D:B04	22905
3389	1/28/98	545	RTA00000196F.a.2.1	M00001338B:E02	3575
3390	1/28/98	406	RTA00000199F.f.09.2	M00003842B:D09	22907
3390	1/28/98	78	RTA00000199R.f.09.1	M00003842B:D09	22907
3391	1/28/98	78	RTA00000199R.f.09.1	M00003842B:D09	22907
3391	1/28/98	406	RTA00000199F.f.09.2	M00003842B:D09	22907
3392	1/28/98	692	RTA00000199F.e.4.1	M00003820B:C05	0
3393	1/28/98	458	RTA00000199R.d.16.1	M00003812C:A05	24191
3394	1/28/98	755	RTA00000199F.c.21.2	M00003803C:D09	5070
3395	1/28/98	505	RTA00000188AF.n.03.1	M00003801B:B10	9443
3396	1/28/98	714	RTA00000199R.g.07.1	M00003853D:D03	0
3397	1/28/98	724	RTA00000177AR.f.15.4	M00001345B:E10	9062
3398	1/28/98	623	RTA00000198R.b.24.1	M00001571D:B11	19047
3398	1/28/98	748	RTA00000198AF.b.24.1	M00001571D:B11	19047
3399	1/28/98	395	RTA00000196R.c.21.2	M00001352C:H10	0
3400	1/28/98	593	RTA00000196R.c.14.2	M00001352B:F04	23105
3400	1/28/98	485	RTA00000196AF.c.14.1	M00001352B:F04	23105
3401	1/28/98	485	RTA00000196AF.c.14.1	M00001352B:F04	23105
3401	1/28/98	593	RTA00000196R.c.14.2	M00001352B:F04	23105
3402	1/28/98	645	RTA00000177AF.k.9.1	M00001352A:E02	16245
3403	1/28/98	576	RTA00000196AF.c.7.1	M00001350B:G11	0
3404	1/28/98	737	RTA00000189AR.m.9.1	M00003880B:C08	2917
3405	1/28/98	728	RTA00000177AR.f.17.4	M00001345C:B01	8594
3406	1/28/98	453	RTA00000199AF.i.20.1	M00003881A:D09	9544
3407	1/28/98	440	RTA00000177AR.f.13.4	M00001345A:G11	10480
3408	1/28/98	680	RTA00000177AF.f.10.1	M00001345A:E01	6420
3409	1/28/98	573	RTA00000196AF.b.7.1	M00001344A:G07	7774
3410	1/28/98	402	RTA00000177AF.b.21.4	M00001341A:F12	4443
3411	1/28/98	702	RTA00000177AR.b.8.5	M00001340B:A06	17062
3412	1/28/98	463	RTA00000177AR.k.23.4	M00001352D:D02	35550
3412	1/28/98	168	RTA00000177AR.k.23.1	M00001352D:D02	35550
3413	1/28/98	600	RTA00000177AF.g.4.1	M00001346B:B07	4119
3414	1/28/98	280	RTA00000193AF.b.18.1	M00004233C:H09	7542
3415	1/28/98	748	RTA00000198AF.b.24.1	M00001571D:B11	19047
3415	1/28/98	623	RTA00000198R.b.24.1	M00001571D:B11	19047
3416	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
3416	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
3416	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
3417	1/28/98	282	RTA00000193AF.c.15.1	M00004248B:E08	3726
3418	1/28/98	307	RTA00000200F.n.05.2	M00004246C:A09	18989
3418	1/28/98	319	RTA00000200F.n.05.1	M00004246C:A09	18989
3419	1/28/98	319	RTA00000200F.n.05.1	M00004246C:A09	18989

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3419	1/28/98	307	RTA00000200F.n.05.2	M00004246C:A09	18989
3420	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
3420	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
3420	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
3421	1/28/98	307	RTA00000200F.n.05.2	M00004246C:A09	18989
3421	1/28/98	319	RTA00000200F.n.05.1	M00004246C:A09	18989
3422	1/28/98	50	RTA00000201R.a.02.1	M00004295B:D02	35362
3422	1/28/98	235	RTA00000201AF.a.02.1	M00004295B:D02	35362
3423	1/28/98	251	RTA00000192AF.n.13.1	M00004197D:H01	8210
3424	1/28/98	47	RTA00000192AF.m.12.1	M00004191D:B11	0
3425	1/28/98	494	RTA00000200AF.k.1.1	M00004188C:A09	40049
3425	1/28/98	194	RTA00000200R.k.01.1	M00004188C:A09	40049
3426	1/28/98	494	RTA00000200AF.k.1.1	M00004188C:A09	40049
3426	1/28/98	194	RTA00000200R.k.01.1	M00004188C:A09	40049
3427	1/28/98	231	RTA00000192AF.l.13.2	M00004185C:C03	11443
3428	1/28/98	382	RTA00000200AF.j.6.1	M00004176B:E08	22902
3429	1/28/98	307	RTA00000200F.n.05.2	M00004246C:A09	18989
3429	1/28/98	319	RTA00000200F.n.05.1	M00004246C:A09	18989
3430	1/28/98	52	RTA00000201R.b.02.1	M00004319D:G09	22660
3431	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3431	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3431	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3432	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3432	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3432	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3433	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3433	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3433	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3434	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3434	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3434	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3435	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3435	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3435	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3436	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
3436	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
3436	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
3437	1/28/98	273	RTA00000201F.c.08.1	M00004353C:H07	0
3438	1/28/98	328	RTA00000200AF.g.09.1	M00004131B:H09	22785
3438	1/28/98	26	RTA00000200R.g.09.1	M00004131B:H09	22785
3439	2/24/98	571	RTA00000355R.e.14.1	M00004314B:G07	16837
3439	1/28/98	343	RTA00000201F.a.18.1	M00004314B:G07	16837
3440	1/28/98	343	RTA00000201F.a.18.1	M00004314B:G07	16837
3440	2/24/98	571	RTA00000355R.e.14.1	M00004314B:G07	16837
3441	1/28/98	164	RTA00000193AR.i.14.4	M00004307C:A06	9457
3442	1/28/98	50	RTA00000201R.a.02.1	M00004295B:D02	35362
3442	1/28/98	235	RTA00000201AF.a.02.1	M00004295B:D02	35362
3443	1/28/98	235	RTA00000201AF.a.02.1	M00004295B:D02	35362
3443	1/28/98	50	RTA00000201R.a.02.1	M00004295B:D02	35362
3444	1/28/98	50	RTA00000201R.a.02.1	M00004295B:D02	35362

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3444	1/28/98	235	RTA00000201AF.a.02.1	M00004295B:D02	35362
3445	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3445	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3445	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3446	1/28/98	13	RTA00000190AF.i.5.1	M00003919A:A10	0
3447	1/28/98	72	RTA00000200F.a.6.1	M00004029B:F11	36952
3448	1/28/98	101	RTA00000191AF.d.08.2	M00003997B:G07	970
3449	1/28/98	79	RTA00000199AF.p.4.1	M00003985C:F01	10282
3450	1/28/98	121	RTA00000199AF.o.16.1	M00003979A:F03	16721
3451	1/28/98	193	RTA00000199AF.n.3.1	M00003946D:C11	0
3452	1/28/98	165	RTA00000192AF.g.23.1	M00004157C:A09	6455
3453	1/28/98	381	RTA00000199AF.m.14.1	M00003938A:B04	10580
3454	1/28/98	123	RTA00000191AF.k.6.1	M00004078B:A11	5451
3455	1/28/98	102	RTA00000199R.j.08.1	M00003884D:G07	37844
3456	1/28/98	86	RTA00000189AF.l.22.1	M00003879C:G10	33333
3457	1/28/98	148	RTA00000199F.h.17.2	M00003871A:A05	36254
3458	1/28/98	143	RTA00000199R.h.09.1	M00003867C:H09	76020
3459	1/28/98	266	RTA00000199F.f.21.2	M00003847C:E09	13344
3460	2/24/98	153	RTA00000422F.g.22.1	M00001585B:A06	22561
3461	1/28/98	292	RTA00000199AF.m.18.1	M00003939C:F04	0
3462	1/28/98	275	RTA00000191AF.o.17.2	M00004102A:H02	5957
3462	1/28/98	274	RTA00000191AF.o.17.1	M00004102A:H02	5957
3463	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3463	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3463	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3464	1/28/98	328	RTA00000200AF.g.09.1	M00004131B:H09	22785
3464	1/28/98	26	RTA00000200R.g.09.1	M00004131B:H09	22785
3465	1/28/98	214	RTA00000200AF.f.22.1	M00004121C:F06	16521
3466	1/28/98	160	RTA00000192AF.b.20.1	M00004118D:E08	0
3467	1/28/98	98	RTA00000200AF.f.14.1	M00004115D:C08	22051
3467	1/28/98	100	RTA00000200R.f.14.1	M00004115D:C08	22051
3468	1/28/98	98	RTA00000200AF.f.14.1	M00004115D:C08	22051
3468	1/28/98	100	RTA00000200R.f.14.1	M00004115D:C08	22051
3469	1/28/98	305	RTA00000200AF.b.15.1	M00004040D:F01	10627
3470	1/28/98	98	RTA00000200AF.f.14.1	M00004115D:C08	22051
3470	1/28/98	100	RTA00000200R.f.14.1	M00004115D:C08	22051
3471	1/28/98	29	RTA00000200AF.b.19.1	M00004042D:H02	22847
3472	1/28/98	274	RTA00000191AF.o.17.1	M00004102A:H02	5957
3472	1/28/98	275	RTA00000191AF.o.17.2	M00004102A:H02	5957
3473	1/28/98	274	RTA00000191AF.o.17.1	M00004102A:H02	5957
3473	1/28/98	275	RTA00000191AF.o.17.2	M00004102A:H02	5957
3474	1/28/98	275	RTA00000191AF.o.17.2	M00004102A:H02	5957
3474	1/28/98	274	RTA00000191AF.o.17.1	M00004102A:H02	5957
3475	1/28/98	226	RTA00000191AR.o.09.4	M00004096A:G02	0
3476	1/28/98	40	RTA00000200AR.e.02.1	M00004090A:F09	36059
3477	1/28/98	175	RTA00000200F.i.5.1	M00004156B:A12	22892
3478	1/28/98	98	RTA00000200AF.f.14.1	M00004115D:C08	22051
3478	1/28/98	100	RTA00000200R.f.14.1	M00004115D:C08	22051
3479	1/28/98	643	RTA00000184AF.c.9.1	M00001546C:G10	16245
3480	1/28/98	615	RTA00000197R.p.20.1	M00001554B:B07	22795

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3480	1/28/98	559	RTA00000197AF.p.20.1	M00001554B:B07	22795
3481	1/28/98	660	RTA00000197AF.p.16.1	M00001552D:G08	6013
3482	1/28/98	521	RTA00000197AF.p.12.1	M00001552B:G05	0
3483	1/28/98	403	RTA00000184AF.f.13.1	M00001550D:H02	3784
3484	1/28/98	517	RTA00000184AF.e.14.1	M00001549C:D02	16347
3485	1/28/98	676	RTA00000197AR.m.14.1	M00001531B:E09	14879
3486	1/28/98	596	RTA00000184AF.d.9.1	M00001548A:B11	6515
3487	1/28/98	559	RTA00000197AF.p.20.1	M00001554B:B07	22795
3487	1/28/98	615	RTA00000197R.p.20.1	M00001554B:B07	22795
3488	1/28/98	729	RTA00000184AF.a.19.1	M00001544C:C06	2628
3489	1/28/98	682	RTA00000125A.j.16.1	M00001544A:E06	0
3490	1/28/98	723	RTA00000183AF.p.24.1	M00001543C:F01	3116
3491	1/28/98	509	RTA00000183AF.p.17.1	M00001543A:H12	5158
3492	1/28/98	738	RTA00000183AF.o.8.1	M00001540C:B10	8927
3493	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3493	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3493	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3494	1/28/98	502	RTA00000197AF.o.23.1	M00001549A:A09	12682
3495	1/28/98	468	RTA00000198AF.a.18.1	M00001561C:E11	0
3496	1/28/98	210	RTA00000189AR.b.12.1	M00003829B:G03	17233
3496	1/28/98	422	RTA00000189AF.b.12.1	M00003829B:G03	17233
3497	1/28/98	748	RTA00000198AF.b.24.1	M00001571D:B11	19047
3497	1/28/98	623	RTA00000198R.b.24.1	M00001571D:B11	19047
3498	1/28/98	397	RTA00000198AF.b.22.1	M00001571B:E03	38956
3499	1/28/98	571	RTA00000198AF.b.14.1	M00001569C:B06	801
3500	1/28/98	492	RTA00000198AF.b.8.1	M00001567C:H12	22636
3500	1/28/98	23	RTA00000198R.b.08.1	M00001567C:H12	22636
3501	1/28/98	492	RTA00000198AF.b.8.1	M00001567C:H12	22636
3501	1/28/98	23	RTA00000198R.b.08.1	M00001567C:H12	22636
3502	1/28/98	559	RTA00000197AF.p.20.1	M00001554B:B07	22795
3502	1/28/98	615	RTA00000197R.p.20.1	M00001554B:B07	22795
3503	1/28/98	727	RTA00000184AF.n.12.2	M00001561D:C11	3727
3504	1/28/98	559	RTA00000197AF.p.20.1	M00001554B:B07	22795
3504	1/28/98	615	RTA00000197R.p.20.1	M00001554B:B07	22795
3505	1/28/98	641	RTA00000198F.a.10.1	M00001558A:E11	6695
3506	1/28/98	731	RTA00000184F.k.02.1	M00001557B:H10	5192
3507	1/28/98	597	RTA00000198F.a.4.1	M00001557A:F01	9635
3508	1/28/98	560	RTA00000184AF.i.23.3	M00001556A:F11	1577
3509	1/28/98	601	RTA00000184AF.i.10.2	M00001555A:B01	3744
3510	1/28/98	700	RTA00000183AF.i.18.2	M00001529D:H02	40129
3511	1/28/98	437	RTA00000198R.a.23.1	M00001563B:D11	10700
3512	1/28/98	591	RTA00000197AF.h.1.1	M00001470A:H01	13075
3512	1/28/98	110	RTA00000197R.h.01.1	M00001470A:H01	13075
3513	1/28/98	259	RTA00000197AF.j.4.1	M00001492D:A11	17209
3513	1/28/98	386	RTA00000197AR.j.04.1	M00001492D:A11	17209
3514	1/28/98	386	RTA00000197AR.j.04.1	M00001492D:A11	17209
3514	1/28/98	259	RTA00000197AF.j.4.1	M00001492D:A11	17209
3515	1/28/98	644	RTA00000197F.i.12.1	M00001489B:A06	3605
3516	1/28/98	633	RTA00000197F.i.8.1	M00001488A:E01	6292
3517	1/28/98	546	RTA00000197F.i.6.1	M00001487C:D06	12149

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3518	1/28/98	650	RTA00000183AR.n.17.1	M00001539B:H06	9800
3519	1/28/98	513	RTA00000197AF.h.14.1	M00001477B:F04	7045
3520	1/28/98	519	RTA00000183AF.a.24.2	M00001499B:A11	10539
3521	1/28/98	110	RTA00000197R.h.01.1	M00001470A:H01	13075
3521	1/28/98	591	RTA00000197AF.h.1.1	M00001470A:H01	13075
3522	1/28/98	446	RTA00000182AF.a.23.3	M00001463A:F06	9755
3523	1/28/98	739	RTA00000181AF.p.12.3	M00001460C:H02	22204
3524	1/28/98	635	RTA00000181AF.p.7.3	M00001460A:E01	38773
3525	1/28/98	720	RTA00000197AF.f.14.1	M00001459B:C09	3732
3526	1/28/98	623	RTA00000198R.b.24.1	M00001571D:B11	19047
3526	1/28/98	748	RTA00000198AF.b.24.1	M00001571D:B11	19047
3527	1/28/98	419	RTA00000182AF.j.20.1	M00001483B:D03	4769
3528	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3528	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3529	1/28/98	695	RTA00000197F.m.5.1	M00001528C:H04	10872
3530	1/28/98	479	RTA00000197R.l.22.1	M00001528A:C11	6962
3530	1/28/98	665	RTA00000197AF.l.22.1	M00001528A:C11	6962
3531	1/28/98	479	RTA00000197R.l.22.1	M00001528A:C11	6962
3531	1/28/98	665	RTA00000197AF.l.22.1	M00001528A:C11	6962
3532	1/28/98	479	RTA00000197R.l.22.1	M00001528A:C11	6962
3532	1/28/98	665	RTA00000197AF.l.22.1	M00001528A:C11	6962
3533	1/28/98	479	RTA00000197R.l.22.1	M00001528A:C11	6962
3533	1/28/98	665	RTA00000197AF.l.22.1	M00001528A:C11	6962
3534	1/28/98	550	RTA00000183AF.g.14.1	M00001513D:A03	0
3535	1/28/98	404	RTA00000195AF.b.6.1	M00001496C:G10	39490
3536	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3536	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3537	1/28/98	570	RTA00000183AF.a.19.2	M00001499A:A05	3788
3538	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3538	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3539	1/28/98	603	RTA00000183AR.d.11.3	M00001504D:G06	6420
3540	1/28/98	715	RTA00000197AR.k.11.1	M00001500D:E10	53758
3541	1/28/98	503	RTA00000197AF.k.9.1	M00001500C:C08	3138
3542	1/28/98	719	RTA00000183AF.b.12.1	M00001500A:B02	0
3543	1/28/98	271	RTA00000201F.d.02.1	M00004375A:H01	2599
3543	1/28/98	239	RTA00000201R.d.02.1	M00004375A:H01	2599
3543	1/28/98	227	RTA00000201R.d.02.2	M00004375A:H01	2599
3544	1/28/98	630	RTA00000183AR.g.03.2	M00001512D:G09	3956
3544	1/28/98	632	RTA00000183AR.g.03.1	M00001512D:G09	3956
3545	3/24/98	15	RTA00000425F.j.14.1	M00001639D:C12	73397
3546	3/24/98	111	RTA00000425F.d.08.1	M00001631A:F06	74350
3547	3/24/98	152	RTA00000425F.d.07.1	M00001631A:F12	43197
3548	3/24/98	147	RTA00000425F.d.21.1	M00001631B:H04	78920
3549	3/24/98	77	RTA00000425F.i.17.1	M00001633A:F11	43213
3550	3/24/98	418	RTA00000425F.i.18.1	M00001633A:G10	42255
3551	3/24/98	197	RTA00000425F.j.20.1	M00001633B:A12	26760
3552	3/24/98	143	RTA00000425F.j.22.1	M00001633B:E03	73882
3553	3/24/98	283	RTA00000425F.k.20.1	M00001633C:A08	74048
3554	3/24/98	139	RTA00000425F.k.22.1	M00001633C:E12	78123
3555	2/24/98	870	RTA00000418F.n.24.1	M00001659D:C09	73153

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3556	3/24/98	403	RTA00000425F.n.17.1	M00001636A:H12	78304
3557	2/24/98	1109	RTA00000422F.f.22.1	M00001584A:G03	38703
3558	3/24/98	150	RTA00000424F.d.04.1	M00001478A:F12	76505
3558	3/24/98	149	RTA00000424F.d.04.3	M00001478A:F12	76505
3559	3/24/98	358	RTA00000425F.n.19.1	M00001638B:C08	78324
3560	3/24/98	165	RTA00000425F.e.21.1	M00001629D:D10	77203
3561	3/24/98	443	RTA00000425F.k.16.1	M00001640A:F05	75282
3562	3/24/98	252	RTA00000425F.m.03.1	M00001642D:G08	76045
3563	3/24/98	116	RTA00000425F.n.05.1	M00001647D:G07	73965
3564	3/24/98	425	RTA00000522F.i.07.2	M00001649A:E10	78377
3565	3/24/98	445	RTA00000522F.j.08.2	M00001650D:D10	76613
3566	3/24/98	371	RTA00000522F.j.09.2	M00001650D:F11	78522
3567	3/24/98	97	RTA00000522F.j.14.2	M00001651C:D11	73123
3568	3/24/98	69	RTA00000522F.j.15.2	M00001651C:G12	76535
3569	3/24/98	373	RTA00000522F.j.19.2	M00001652B:D06	76224
3570	3/24/98	93	RTA00000522F.k.14.1	M00001652D:G02	74280
3571	3/24/98	50	RTA00000522F.k.15.1	M00001652D:G06	76866
3572	3/24/98	141	RTA00000522F.k.19.1	M00001653A:A05	32625
3573	3/24/98	409	RTA00000425F.l.10.1	M00001638A:C08	26893
3574	2/24/98	443	RTA00000414F.f.15.1	M00005260A:A12	0
3575	2/24/98	886	RTA00000420F.m.15.1	M00005235B:F10	0
3576	2/24/98	260	RTA00000414F.e.08.1	M00005236A:E04	0
3577	2/24/98	734	RTA00000414F.e.09.1	M00005236A:G10	0
3578	2/24/98	1077	RTA00000414F.e.11.1	M00005236B:A12	0
3579	2/24/98	970	RTA00000414F.e.15.1	M00005236B:G03	0
3580	2/24/98	271	RTA00000414F.e.16.1	M00005236B:H10	0
3581	2/24/98	58	RTA00000420F.m.18.1	M00005254D:A10	0
3582	2/24/98	289	RTA00000420F.n.08.1	M00005257A:H11	0
3583	2/24/98	1033	RTA00000414F.e.19.1	M00005257C:E05	0
3584	2/24/98	793	RTA00000414F.e.21.1	M00005257C:G01	0
3585	2/24/98	36	RTA00000414F.e.22.1	M00005257D:A06	0
3586	2/24/98	852	RTA00000414F.f.03.1	M00005257D:G07	0
3587	3/24/98	341	RTA00000425F.d.06.1	M00001631A:D03	77660
3588	2/24/98	961	RTA00000420F.n.21.2	M00005259B:D12	0
3589	3/24/98	441	RTA00000528F.g.22.2	M00001630C:F09	920
3590	2/24/98	940	RTA00000414F.f.17.1	M00005260A:F04	0
3591	2/24/98	160	RTA00000414F.f.19.1	M00005260B:E11	0
3592	3/24/98	140	RTA00000424F.m.14.1	M00001612D:D12	77491
3593	3/24/98	34	RTA00000424F.m.15.1	M00001612D:F06	73759
3594	3/24/98	212	RTA00000424F.n.06.1	M00001613A:D02	74737
3595	3/24/98	308	RTA00000424F.k.23.1	M00001614A:B10	31061
3596	3/24/98	372	RTA00000424F.m.24.1	M00001614C:G07	77045
3597	3/24/98	396	RTA00000528F.g.05.2	M00001615C:E07	3770
3598	3/24/98	296	RTA00000425F.e.02.1	M00001625C:F10	76143
3599	3/24/98	99	RTA00000425F.c.20.1	M00001626D:A02	73581
3600	3/24/98	442	RTA00000425F.d.14.1	M00001629A:H09	13417
3601	3/24/98	357	RTA00000425F.e.19.1	M00001629D:B10	73409
3602	2/24/98	210	RTA00000419F.p.24.1	M00004039B:E12	63477
3603	2/24/98	501	RTA00000414F.f.05.1	M00005257D:H11	0
3604	2/24/98	561	RTA00000420F.e.10.1	M00004108D:G04	65899

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3605	2/24/98	758	RTA00000407F.a.01.1	M00004039A:H11	12501
3606	2/24/98	688	RTA00000413F.d.23.1	M00004090B:H06	66030
3607	2/24/98	124	RTA00000420F.d.05.1	M00004092B:E05	64432
3608	2/24/98	329	RTA00000413F.e.16.1	M00004093C:C02	63836
3609	2/24/98	359	RTA00000420F.d.12.1	M00004096D:H03	64095
3610	2/24/98	429	RTA00000422F.c.17.1	M00004099D:F01	1360
3611	2/24/98	630	RTA00000413F.f.19.1	M00004100B:C07	65189
3612	2/24/98	439	RTA00000413F.g.23.1	M00004103B:E09	40700
3613	2/24/98	3	RTA00000420F.d.18.1	M00004105C:B05	63074
3614	2/24/98	1064	RTA00000420F.d.19.1	M00004105C:C08	43146
3615	2/24/98	671	RTA00000413F.h.12.1	M00004107A:A12	66929
3616	2/24/98	507	RTA00000420F.e.02.1	M00004107B:D07	40259
3617	2/24/98	319	RTA00000420F.b.21.1	M00004088D:B10	65057
3618	2/24/98	931	RTA00000420F.e.09.1	M00004108D:E07	66325
3619	2/24/98	840	RTA00000420F.b.20.1	M00004088D:B05	0
3620	2/24/98	545	RTA00000420F.e.15.1	M00004110A:A10	20190
3621	2/24/98	981	RTA00000420F.e.20.1	M00004110B:A07	64762
3622	3/24/98	370	RTA00000424F.d.19.3	M00001448B:A07	73180
3623	3/24/98	370	RTA00000424F.d.19.3	M00001448B:A07	73180
3624	3/24/98	189	RTA00000424F.d.22.3	M00001448B:G07	76189
3625	3/24/98	189	RTA00000424F.d.22.3	M00001448B:G07	76189
3626	3/24/98	92	RTA00000424F.a.24.4	M00001448D:E11	73951
3627	3/24/98	92	RTA00000424F.a.24.4	M00001448D:E11	73951
3628	3/24/98	279	RTA00000528F.b.03.1	M00001455A:D10	2078
3629	3/24/98	279	RTA00000528F.b.03.1	M00001455A:D10	2078
3630	3/24/98	480	RTA00000424F.d.17.3	M00001455A:E11	73958
3631	3/24/98	480	RTA00000424F.d.17.3	M00001455A:E11	73958
3632	2/24/98	583	RTA00000406F.i.17.1	M00003904B:C03	37902
3633	2/24/98	590	RTA00000407F.b.22.1	M00004108B:B02	37487
3634	2/24/98	1075	RTA00000413F.b.17.1	M00004078A:F07	21704
3635	2/24/98	544	RTA00000420F.l.21.2	M00005232A:H12	0
3636	1/28/98	684	RTA00000200AR.b.11.1	M00004040A:G12	12043
3636	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
3637	1/28/98	684	RTA00000200AR.b.11.1	M00004040A:G12	12043
3637	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
3638	2/24/98	1087	RTA00000401F.o.13.1	M00004040C:A01	3220
3639	2/24/98	114	RTA00000341F.m.21.1	M00004051D:E01	0
3640	2/24/98	811	RTA00000413F.a.12.1	M00004072D:F09	63403
3641	2/24/98	714	RTA00000420F.a.08.1	M00004073A:D10	19473
3642	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
3642	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
3643	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
3643	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
3644	2/24/98	964	RTA00000423F.l.15.1	M00004075B:G09	11219
3645	2/24/98	355	RTA00000420F.a.19.1	M00004076A:D12	34192
3646	2/24/98	745	RTA00000413F.b.04.1	M00004076D:H07	66427
3647	2/24/98	64	RTA00000413F.d.18.1	M00004090B:B04	65305
3648	2/24/98	698	RTA00000413F.b.16.1	M00004078A:E05	65126
3649	2/24/98	190	RTA00000419F.p.23.1	M00004039B:A05	64748
3650	2/24/98	903	RTA00000420F.a.21.1	M00004078B:C11	66241

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3651	2/24/98	588	RTA00000420F.a.23.1	M00004078B:F12	42158
3652	2/24/98	1185	RTA00000413F.b.20.1	M00004079D:G08	66063
3653	2/24/98	619	RTA00000420F.b.04.1	M00004081A:E02	63820
3654	2/24/98	988	RTA00000407F.a.22.1	M00004081A:G01	15570
3655	2/24/98	705	RTA00000407F.a.23.1	M00004081C:A10	23489
3656	2/24/98	282	RTA00000407F.a.24.1	M00004083A:E08	37560
3657	2/24/98	835	RTA00000413F.c.10.1	M00004083B:C01	65600
3658	2/24/98	598	RTA00000420F.b.18.1	M00004086D:G08	66136
3659	2/24/98	335	RTA00000413F.d.02.1	M00004087B:A12	66172
3660	2/24/98	504	RTA00000413F.d.05.1	M00004087C:A01	64788
3661	2/24/98	76	RTA00000413F.d.16.1	M00004088C:F01	63331
3662	2/24/98	726	RTA00000420F.b.19.1	M00004088D:A11	36873
3663	2/24/98	521	RTA00000413F.b.14.1	M00004078A:C11	66591
3664	2/24/98	255	RTA00000419F.o.16.1	M00003989C:G05	62867
3665	2/24/98	665	RTA00000419F.p.20.1	M00004039A:C03	9458
3666	2/24/98	1234	RTA00000352R.c.20.1	M00003982A:B12	7339
3667	2/24/98	247	RTA00000412F.j.17.1	M00003982C:G04	64071
3668	2/24/98	1145	RTA00000423F.k.21.2	M00003984D:B08	37499
3669	2/24/98	993	RTA00000406F.o.05.1	M00003985B:G04	37894
3670	2/24/98	328	RTA00000423F.k.19.2	M00003985D:E10	17615
3671	2/24/98	254	RTA00000341F.l.15.1	M00003986B:A08	5294
3672	2/24/98	948	RTA00000419F.o.06.1	M00003986C:D09	64643
3673	2/24/98	661	RTA00000341F.l.16.1	M00003986D:C08	8479
3674	2/24/98	117	RTA00000341F.m.13.1	M00003987B:E12	26502
3675	2/24/98	1210	RTA00000419F.o.09.1	M00003987B:F08	66396
3676	2/24/98	460	RTA00000341F.j.12.1	M00003987C:G03	12195
3677	2/24/98	486	RTA00000346F.l.13.1	M00003980B:C11	7542
3678	2/24/98	723	RTA00000419F.o.15.1	M00003989C:D03	32487
3679	2/24/98	897	RTA00000419F.n.24.1	M00003980A:F04	65995
3680	2/24/98	92	RTA00000412F.l.04.1	M00003989D:F12	66372
3681	2/24/98	1014	RTA00000412F.l.14.1	M00004029B:F01	62792
3682	2/24/98	348	RTA00000412F.l.19.1	M00004029C:C05	65825
3683	2/24/98	284	RTA00000412F.l.21.1	M00004029C:G10	65183
3684	2/24/98	188	RTA00000406F.p.04.1	M00004030D:F11	37458
3685	2/24/98	812	RTA00000412F.o.05.1	M00004034A:A01	63575
3686	2/24/98	911	RTA00000406F.p.13.1	M00004034C:G02	8584
3687	2/24/98	230	RTA00000423F.k.01.1	M00004034D:E09	40426
3688	2/24/98	1076	RTA00000423F.k.09.1	M00004035B:H09	26630
3689	2/24/98	941	RTA00000419F.p.08.1	M00004036D:B04	65560
3690	2/24/98	1186	RTA00000419F.p.10.1	M00004036D:B09	41448
3691	2/24/98	42	RTA00000423F.k.17.2	M00004038A:F02	37512
3692	2/24/98	934	RTA00000414F.e.01.1	M00005233D:H07	0
3693	2/24/98	37	RTA00000406F.o.15.1	M00003988D:A08	37482
3694	2/24/98	1016	RTA00000406F.n.12.1	M00003960A:G07	37517
3695	1/28/98	584	RTA00000190AR.c.03.1	M00003904C:A08	0
3695	2/24/98	1069	RTA00000346F.k.05.1	M00003904C:A08	0
3696	1/28/98	584	RTA00000190AR.c.03.1	M00003904C:A08	0
3696	2/24/98	1069	RTA00000346F.k.05.1	M00003904C:A08	0
3697	2/24/98	489	RTA00000406F.j.19.1	M00003906A:F12	1685
3698	2/24/98	461	RTA00000412F.d.16.1	M00003906B:H06	26829

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3699	2/24/98	558	RTA00000419F.m.04.1	M00003906C:C05	74367
3700	2/24/98	120	RTA00000401F.m.02.1	M00003907A:F01	1573
3701	2/24/98	628	RTA00000412F.d.19.1	M00003907B:C03	75743
3702	2/24/98	792	RTA00000406F.k.11.1	M00003907B:D05	38715
3703	2/24/98	292	RTA00000423F.i.18.1	M00003918A:D08	14996
3704	2/24/98	1192	RTA00000406F.m.17.1	M00003918A:F09	0
3705	2/24/98	9	RTA00000406F.n.02.1	M00003918C:H10	15051
3706	2/24/98	629	RTA00000352R.c.04.1	M00003924A:D08	71976
3707	2/24/98	438	RTA00000195R.d.09.1	M00003981C:B04	8537
3708	2/24/98	433	RTA00000419F.n.02.1	M00003958B:H08	65963
3709	2/24/98	147	RTA00000422F.c.02.1	M00004118B:A03	2902
3710	2/24/98	649	RTA00000412F.g.03.1	M00003971B:A10	64740
3711	2/24/98	1141	RTA00000347F.f.08.1	M00003972D:H02	5948
3712	2/24/98	252	RTA00000412F.g.24.1	M00003973C:C03	28741
3713	2/24/98	732	RTA00000412F.h.11.1	M00003974B:B11	63175
3714	2/24/98	181	RTA00000412F.h.21.1	M00003974D:F02	64348
3715	2/24/98	345	RTA00000412F.h.23.2	M00003974D:H04	65118
3716	2/24/98	148	RTA00000419F.n.04.1	M00003975C:F07	13102
3717	2/24/98	311	RTA00000419F.n.09.1	M00003977C:A06	66070
3718	2/24/98	1044	RTA00000419F.n.11.1	M00003977C:B03	66477
3719	2/24/98	652	RTA00000419F.n.12.1	M00003977D:A03	66086
3720	2/24/98	452	RTA00000419F.n.13.1	M00003977D:A06	66026
3721	2/24/98	796	RTA00000419F.n.15.1	M00003977D:D04	63484
3722	2/24/98	1249	RTA00000419F.n.17.1	M00003978D:G04	63186
3723	2/24/98	860	RTA00000419F.m.23.1	M00003958B:E11	64263
3724	2/24/98	713	RTA00000414F.b.10.1	M00005212D:D09	0
3725	2/24/98	1002	RTA00000419F.p.18.1	M00004038D:G06	63002
3726	2/24/98	1048	RTA00000413F.o.07.2	M00005100A:C01	0
3727	2/24/98	508	RTA00000420F.i.20.1	M00005101C:E12	0
3728	2/24/98	1001	RTA00000413F.p.07.2	M00005102C:D03	0
3729	2/24/98	88	RTA00000420F.i.24.1	M00005134B:E08	0
3730	2/24/98	93	RTA00000413F.p.24.1	M00005139A:H03	0
3731	2/24/98	142	RTA00000420F.j.19.1	M00005140C:B10	0
3732	2/24/98	833	RTA00000420F.j.20.1	M00005140D:C06	0
3733	2/24/98	316	RTA00000414F.a.02.1	M00005178D:H04	0
3734	2/24/98	1100	RTA00000414F.a.12.1	M00005210A:E06	0
3735	2/24/98	1175	RTA00000414F.b.04.1	M00005212B:E01	0
3736	2/24/98	1236	RTA00000414F.b.06.1	M00005212C:C03	0
3737	2/24/98	747	RTA00000413F.n.24.1	M00004960C:E10	0
3738	2/24/98	207	RTA00000414F.b.08.1	M00005212C:H02	0
3739	2/24/98	935	RTA00000420F.i.07.1	M00004960A:B08	0
3740	2/24/98	741	RTA00000414F.b.12.1	M00005212D:H01	0
3741	2/24/98	865	RTA00000414F.c.03.1	M00005216A:D09	0
3742	2/24/98	862	RTA00000414F.c.07.1	M00005216A:H01	0
3743	2/24/98	565	RTA00000420F.k.17.2	M00005217B:A06	0
3744	2/24/98	1226	RTA00000414F.c.12.1	M00005218A:F09	0
3745	2/24/98	512	RTA00000414F.c.16.1	M00005228A:B03	0
3746	2/24/98	817	RTA00000420F.l.08.2	M00005228C:C05	0
3747	2/24/98	573	RTA00000414F.c.23.1	M00005229B:G12	0
3748	2/24/98	1237	RTA00000414F.c.24.1	M00005229B:H04	0

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3749	2/24/98	727	RTA00000414F.d.02.1	M00005229B:H06	0
3750	2/24/98	566	RTA00000414F.d.05.1	M00005229D:H03	0
3751	2/24/98	307	RTA00000420F.l.12.2	M00005230B:H09	0
3752	3/24/98	149	RTA00000424F.d.04.3	M00001478A:F12	76505
3752	3/24/98	150	RTA00000424F.d.04.1	M00001478A:F12	76505
3753	2/24/98	946	RTA00000414F.b.07.1	M00005212C:D02	0
3754	1/28/98	343	RTA00000201F.a.18.1	M00004314B:G07	16837
3754	2/24/98	571	RTA00000355R.e.14.1	M00004314B:G07	16837
3755	2/24/98	481	RTA00000413F.i.23.1	M00004118B:F01	63073
3756	2/24/98	1039	RTA00000407F.c.08.1	M00004118D:B05	37549
3757	2/24/98	824	RTA00000420F.f.07.1	M00004119A:C09	66312
3758	2/24/98	813	RTA00000346F.o.06.1	M00004136D:B02	4937
3759	2/24/98	1070	RTA00000346F.n.22.1	M00004137A:D06	0
3760	2/24/98	283	RTA00000346F.n.06.1	M00004139C:A12	12439
3761	2/24/98	368	RTA00000346F.o.08.1	M00004149C:B02	0
3762	2/24/98	704	RTA00000355R.a.12.1	M00004159C:F09	36756
3762	1/28/98	685	RTA00000200F.i.9.1	M00004159C:F09	36756
3763	1/28/98	685	RTA00000200F.i.9.1	M00004159C:F09	36756
3763	2/24/98	704	RTA00000355R.a.12.1	M00004159C:F09	36756
3764	2/24/98	1254	RTA00000341F.p.11.1	M00004159C:G12	0
3765	2/24/98	1188	RTA00000341F.o.18.1	M00004169D:B11	37189
3766	2/24/98	40	RTA00000352R.l.06.1	M00004187D:H06	40343
3767	2/24/98	456	RTA00000413F.o.06.1	M00005100A:B02	0
3768	2/24/98	882	RTA00000355R.c.03.1	M00004244C:G07	3986
3769	2/24/98	503	RTA00000420F.m.08.1	M00005233B:D04	0
3770	2/24/98	571	RTA00000355R.e.14.1	M00004314B:G07	16837
3770	1/28/98	343	RTA00000201F.a.18.1	M00004314B:G07	16837
3771	2/24/98	91	RTA00000355R.e.15.1	M00004316A:G09	22639
3771	1/28/98	410	RTA00000201F.a.20.1	M00004316A:G09	22639
3772	2/24/98	91	RTA00000355R.e.15.1	M00004316A:G09	22639
3772	1/28/98	410	RTA00000201F.a.20.1	M00004316A:G09	22639
3773	2/24/98	1135	RTA00000346F.o.16.1	M00004358D:C02	176
3774	2/24/98	220	RTA00000413F.k.02.1	M00004690A:G08	0
3775	2/24/98	487	RTA00000420F.g.05.1	M00004891B:D01	0
3776	2/24/98	102	RTA00000420F.g.06.1	M00004891C:D04	0
3777	2/24/98	1238	RTA00000420F.g.09.1	M00004895B:E12	0
3778	2/24/98	18	RTA00000420F.g.12.1	M00004895B:G04	0
3779	2/24/98	1196	RTA00000413F.l.18.1	M00004895D:G07	0
3780	2/24/98	579	RTA00000413F.m.16.1	M00004898C:F03	0
3781	2/24/98	143	RTA00000420F.h.13.1	M00004899D:G06	0
3782	2/24/98	909	RTA00000420F.i.04.1	M00004959D:H12	0
3783	2/24/98	709	RTA00000352R.p.09.1	M00004228C:H03	16915
3784	3/24/98	221	RTA00000427F.j.22.1	M00004097D:B05	66367
3785	3/24/98	188	RTA00000525F.c.15.1	M00004040A:A07	7692
3786	3/24/98	401	RTA00000525F.c.16.1	M00004040A:B04	38209
3787	3/24/98	53	RTA00000525F.c.17.1	M00004040A:C08	38160
3788	3/24/98	325	RTA00000525F.c.18.1	M00004040B:C05	24208
3789	3/24/98	159	RTA00000525F.c.19.1	M00004040B:F07	38159
3790	3/24/98	209	RTA00000427F.g.16.1	M00004069A:E12	63011
3791	3/24/98	123	RTA00000427F.g.05.1	M00004069C:C08	63138

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3792	3/24/98	62	RTA00000427F.j.19.1	M00004077A:G12	41395
3793	3/24/98	265	RTA00000427F.h.02.1	M00004085B:G01	63652
3794	3/24/98	235	RTA00000427F.g.19.1	M00004087A:B05	64611
3795	3/24/98	333	RTA00000427F.k.21.1	M00004090D:F12	62880
3796	3/24/98	130	RTA00000427F.h.12.1	M00004092C:D08	36894
3797	3/24/98	243	RTA00000424F.c.15.3	M00001476D:F12	73533
3798	3/24/98	227	RTA00000427F.i.11.1	M00004097C:H08	26635
3799	3/24/98	456	RTA00000427F.a.10.1	M00004038B:D01	65370
3800	3/24/98	7	RTA00000523F.o.20.1	M00005177B:H02	0
3801	3/24/98	291	RTA00000523F.o.23.1	M00005177C:G04	0
3802	3/24/98	119	RTA00000523F.p.06.1	M00005177D:F09	0
3803	3/24/98	178	RTA00000428F.a.12.1	M00005179B:H02	0
3804	3/24/98	463	RTA00000523F.p.16.1	M00005179D:B03	0
3805	3/24/98	390	RTA00000524F.a.11.1	M00005210D:C09	0
3806	3/24/98	468	RTA00000524F.a.18.1	M00005211A:E09	0
3807	3/24/98	114	RTA00000524F.a.23.1	M00005211C:E09	0
3808	3/24/98	29	RTA00000524F.b.03.1	M00005212A:D10	0
3809	3/24/98	36	RTA00000428F.a.16.1	M00005212D:F08	0
3810	3/24/98	417	RTA00000524F.b.10.1	M00005213C:A01	0
3811	3/24/98	182	RTA00000524F.b.17.1	M00005214B:A06	0
3812	3/24/98	348	RTA00000427F.i.09.1	M00004097C:E03	65916
3813	3/24/98	384	RTA00000527F.p.03.1	M00004029B:A06	5940
3814	3/24/98	84	RTA00000527F.k.18.1	M00003982B:C10	11332
3815	3/24/98	48	RTA00000527F.k.21.1	M00003982B:H10	36051
3816	3/24/98	271	RTA00000527F.l.05.1	M00003983A:D02	13016
3817	3/24/98	246	RTA00000426F.m.21.1	M00003983A:F06	64915
3818	3/24/98	16	RTA00000426F.m.22.1	M00003983A:G02	30002
3819	3/24/98	367	RTA00000527F.l.19.1	M00003983D:E08	36856
3820	3/24/98	477	RTA00000527F.l.21.1	M00003983D:H02	36439
3821	3/24/98	126	RTA00000527F.m.05.1	M00003985A:C01	17240
3822	3/24/98	89	RTA00000527F.n.02.1	M00003986C:G11	24190
3823	3/24/98	263	RTA00000527F.n.07.1	M00003986D:H12	15939
3824	3/24/98	49	RTA00000527F.n.22.1	M00004027A:A08	24175
3825	3/24/98	449	RTA00000426F.m.04.1	M00004028A:B10	36865
3826	3/24/98	336	RTA00000426F.n.17.1	M00004039D:B10	66572
3827	3/24/98	27	RTA00000527F.p.02.1	M00004029B:A01	36844
3828	3/24/98	297	RTA00000525F.c.11.1	M00004039C:E02	37895
3829	3/24/98	17	RTA00000527F.p.06.1	M00004029B:G10	1292
3830	3/24/98	310	RTA00000527F.p.08.1	M00004029C:F02	36013
3831	3/24/98	478	RTA00000527F.p.09.1	M00004029C:F05	7694
3832	3/24/98	253	RTA00000426F.m.08.1	M00004030B:A12	63781
3833	3/24/98	414	RTA00000426F.m.12.1	M00004030B:D08	63740
3834	3/24/98	345	RTA00000426F.n.23.1	M00004030C:A08	18176
3835	3/24/98	98	RTA00000527F.p.16.1	M00004030C:C02	23798
3836	3/24/98	115	RTA00000525F.b.05.1	M00004034C:F05	21116
3837	3/24/98	444	RTA00000525F.b.09.1	M00004035B:F05	23472
3838	3/24/98	158	RTA00000427F.a.06.1	M00004036A:A11	66550
3839	3/24/98	376	RTA00000525F.b.21.1	M00004037C:D04	9486
3840	3/24/98	293	RTA00000525F.c.02.1	M00004038A:E05	14618
3841	3/24/98	138	RTA00000527F.c.22.1	M00003822B:G12	37496

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3842	3/24/98	30	RTA00000426F.m.07.1	M00004028A:G03	63504
3843	3/24/98	322	RTA00000523F.i.17.1	M00003856B:A12	65779
3844	3/24/98	311	RTA00000428F.b.02.1	M00005214D:D10	0
3845	3/24/98	233	RTA00000426F.f.13.1	M00003851A:A06	65384
3846	3/24/98	274	RTA00000523F.h.06.1	M00003851B:D03	28745
3847	3/24/98	407	RTA00000523F.h.08.1	M00003851B:E01	62893
3848	3/24/98	82	RTA00000523F.h.15.1	M00003851C:F09	65137
3849	3/24/98	316	RTA00000523F.h.16.1	M00003851D:H11	66031
3850	3/24/98	232	RTA00000527F.i.13.2	M00003852B:G04	2924
3851	3/24/98	451	RTA00000527F.i.15.2	M00003852C:F07	14235
3852	3/24/98	249	RTA00000523F.h.21.1	M00003853B:C10	41440
3853	3/24/98	72	RTA00000426F.f.19.1	M00003854C:C09	66701
3854	3/24/98	60	RTA00000523F.i.06.1	M00003855A:A01	66341
3855	3/24/98	91	RTA00000527F.i.21.2	M00003855A:F01	37490
3856	3/24/98	137	RTA00000527F.h.17.1	M00003848D:G02	37799
3857	3/24/98	433	RTA00000527F.j.04.2	M00003856A:G04	11809
3858	3/24/98	157	RTA00000523F.g.10.1	M00003848B:E07	40694
3859	3/24/98	75	RTA00000523F.i.22.1	M00003857A:E12	64688
3860	3/24/98	481	RTA00000523F.j.02.1	M00003857A:H10	62853
3861	3/24/98	377	RTA00000527F.j.12.2	M00003857C:E05	37503
3862	3/24/98	286	RTA00000426F.g.19.1	M00003858B:G02	63672
3863	3/24/98	71	RTA00000527F.j.20.2	M00003860D:E06	37603
3864	3/24/98	205	RTA00000426F.h.12.1	M00003905C:F12	78093
3865	3/24/98	40	RTA00000426F.h.23.1	M00003911A:D12	75964
3866	3/24/98	369	RTA00000524F.c.08.1	M00005217C:C01	0
3867	3/24/98	234	RTA00000524F.c.16.1	M00005218D:G10	0
3868	3/24/98	8	RTA00000428F.b.06.1	M00005228A:A09	0
3869	3/24/98	193	RTA00000428F.b.12.1	M00005231C:B07	0
3870	3/24/98	419	RTA00000428F.b.22.1	M00005231D:B09	0
3871	2/24/98	486	RTA00000346F.l.13.1	M00003980B:C11	7542
3872	3/24/98	421	RTA00000523F.i.10.1	M00003855B:B09	64876
3873	3/24/98	10	RTA00000527F.f.12.1	M00003829D:D12	5945
3874	3/24/98	145	RTA00000426F.m.24.1	M00003981A:A07	63943
3875	3/24/98	39	RTA00000527F.c.23.1	M00003822C:A07	37742
3876	3/24/98	35	RTA00000426F.f.11.1	M00003823C:B01	63102
3877	3/24/98	385	RTA00000426F.f.12.1	M00003823C:C04	19096
3878	3/24/98	2	RTA00000523F.d.19.1	M00003824A:A06	26489
3879	3/24/98	225	RTA00000527F.d.09.1	M00003824A:G11	10848
3880	3/24/98	359	RTA00000523F.d.21.1	M00003824B:C09	33424
3881	3/24/98	330	RTA00000523F.d.23.1	M00003824C:A10	63633
3882	3/24/98	254	RTA00000523F.d.24.1	M00003824D:D08	64799
3883	3/24/98	74	RTA00000527F.d.19.1	M00003825B:F10	486
3884	3/24/98	67	RTA00000527F.e.03.1	M00003825D:F01	25560
3885	3/24/98	352	RTA00000527F.e.13.1	M00003826C:F05	37588
3886	3/24/98	185	RTA00000527F.h.21.1	M00003850C:G09	37630
3887	3/24/98	338	RTA00000523F.e.15.1	M00003829C:E08	7919
3888	3/24/98	284	RTA00000524F.b.19.1	M00005216B:D02	0
3889	3/24/98	242	RTA00000523F.e.20.1	M00003829D:F03	65164
3890	3/24/98	301	RTA00000527F.f.18.1	M00003830D:B11	37577
3891	3/24/98	259	RTA00000528F.m.04.1	M00003830D:H11	10815

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3892	3/24/98	160	RTA00000523F.f.06.1	M00003833D:H08	62871
3893	3/24/98	166	RTA00000523F.f.07.1	M00003833D:H10	62799
3894	3/24/98	196	RTA00000523F.f.12.1	M00003840A:C10	63751
3895	3/24/98	447	RTA00000523F.f.19.1	M00003840B:F05	34169
3896	3/24/98	113	RTA00000527F.g.07.1	M00003840C:C02	37488
3897	3/24/98	45	RTA00000528F.m.12.1	M00003842D:F08	5768
3898	3/24/98	415	RTA00000527F.g.12.1	M00003845C:D04	37746
3899	3/24/98	1	RTA00000527F.g.13.1	M00003845D:A04	36035
3900	3/24/98	450	RTA00000527F.g.21.1	M00003846B:C05	36028
3901	3/24/98	144	RTA00000527F.g.23.1	M00003846C:F08	37538
3902	3/24/98	422	RTA00000527F.f.03.1	M00003829A:B08	17788
3903	3/24/98	176	RTA00000522F.g.15.1	M00001595B:G07	76536
3904	3/24/98	264	RTA00000425F.e.09.1	M00001608C:G04	75550
3905	3/24/98	32	RTA00000424F.n.14.1	M00001584D:C11	73008
3906	3/24/98	459	RTA00000425F.c.03.1	M00001585D:B12	74643
3907	3/24/98	124	RTA00000424F.m.12.1	M00001586C:H07	77675
3908	3/24/98	314	RTA00000522F.e.09.1	M00001589D:A01	32599
3909	3/24/98	262	RTA00000424F.k.03.1	M00001590D:B04	21289
3910	3/24/98	106	RTA00000424F.j.14.1	M00001592B:B02	74311
3911	3/24/98	424	RTA00000424F.k.10.1	M00001592D:H02	73232
3912	3/24/98	168	RTA00000424F.j.12.1	M00001594C:E05	73827
3913	3/24/98	420	RTA00000424F.j.13.1	M00001594C:H03	74485
3914	3/24/98	210	RTA00000522F.g.06.1	M00001594D:G11	78221
3915	3/24/98	439	RTA00000522F.g.10.1	M00001595A:C07	74294
3916	3/24/98	300	RTA00000424F.m.08.1	M00001584A:A07	19402
3917	3/24/98	355	RTA00000522F.g.12.1	M00001595A:E07	78783
3918	3/24/98	411	RTA00000424F.n.12.1	M00001582C:G02	41589
3919	3/24/98	238	RTA00000522F.g.17.1	M00001595B:G10	76486
3920	3/24/98	472	RTA00000522F.g.18.1	M00001595B:H11	73226
3921	3/24/98	102	RTA00000522F.g.19.1	M00001595C:A01	78119
3922	3/24/98	280	RTA00000522F.g.20.1	M00001595C:A05	77688
3923	3/24/98	191	RTA00000522F.g.22.1	M00001595C:B12	77504
3924	3/24/98	163	RTA00000522F.h.01.1	M00001595C:E05	75010
3925	3/24/98	438	RTA00000522F.h.02.1	M00001595C:E09	74947
3926	3/24/98	257	RTA00000522F.h.07.1	M00001595D:C11	75149
3927	3/24/98	389	RTA00000424F.i.15.1	M00001596A:A02	78043
3928	3/24/98	167	RTA00000424F.i.20.1	M00001596A:D01	44010
3929	3/24/98	374	RTA00000528F.f.10.1	M00001596C:G05	3600
3930	3/24/98	215	RTA00000425F.f.02.1	M00001607A:A01	76982
3931	3/24/98	22	RTA00000527F.k.15.1	M00003982A:G03	22688
3932	3/24/98	378	RTA00000522F.g.11.1	M00001595A:D12	75432
3933	3/24/98	63	RTA00000522F.b.01.1	M00001570C:B02	75691
3934	3/24/98	430	RTA00000424F.g.08.1	M00001482C:F09	74928
3935	3/24/98	340	RTA00000424F.h.06.1	M00001485C:D07	77552
3936	3/24/98	161	RTA00000424F.h.10.1	M00001485C:G06	72925
3937	3/24/98	368	RTA00000424F.i.11.1	M00001485D:A05	41569
3938	3/24/98	455	RTA00000424F.g.24.1	M00001487C:A11	79156
3939	3/24/98	211	RTA00000424F.h.03.1	M00001487C:G09	74447
3940	3/24/98	174	RTA00000424F.b.21.4	M00001530A:B02	24686
3941	3/24/98	383	RTA00000424F.b.23.4	M00001530A:H05	77322

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3942	3/24/98	179	RTA00000424F.d.10.3	M00001530D:A11	73110
3943	3/24/98	393	RTA00000424F.b.15.4	M00001539B:B10	74958
3944	3/24/98	347	RTA00000522F.a.05.1	M00001567A:C04	32611
3945	3/24/98	303	RTA00000522F.a.06.1	M00001567A:C11	73662
3946	3/24/98	229	RTA00000424F.n.13.1	M00001584D:B06	74942
3947	3/24/98	392	RTA00000522F.a.20.1	M00001567C:E07	74070
3948	3/24/98	226	RTA00000425F.e.15.1	M00001608D:F11	75921
3949	3/24/98	285	RTA00000522F.b.07.1	M00001570D:E05	78634
3950	3/24/98	465	RTA00000528F.d.04.1	M00001570D:E07	2395
3951	3/24/98	404	RTA00000522F.b.18.1	M00001573B:A06	3460
3952	3/24/98	9	RTA00000522F.b.22.1	M00001573B:H12	75181
3953	3/24/98	109	RTA00000424F.a.01.4	M00001575A:D05	43214
3953	3/24/98	125	RTA00000424F.a.01.1	M00001575A:D05	43214
3954	3/24/98	125	RTA00000424F.a.01.1	M00001575A:D05	43214
3954	3/24/98	109	RTA00000424F.a.01.4	M00001575A:D05	43214
3955	3/24/98	294	RTA00000424F.a.05.1	M00001575B:C01	77976
3955	3/24/98	292	RTA00000424F.a.05.4	M00001575B:C01	77976
3956	3/24/98	292	RTA00000424F.a.05.4	M00001575B:C01	77976
3956	3/24/98	294	RTA00000424F.a.05.1	M00001575B:C01	77976
3957	3/24/98	434	RTA00000522F.c.11.1	M00001576C:H02	31064
3958	3/24/98	299	RTA00000522F.c.14.1	M00001577A:A03	75449
3959	3/24/98	110	RTA00000522F.d.08.1	M00001578B:A06	74284
3960	3/24/98	306	RTA00000522F.d.23.1	M00001579D:F02	73868
3961	3/24/98	350	RTA00000424F.n.11.1	M00001582C:C04	73874
3962	3/24/98	366	RTA00000522F.a.17.1	M00001567C:B08	79032
3963	3/24/98	239	RTA00000523F.j.17.1	M00003966B:A04	63610
3964	3/24/98	405	RTA00000425F.e.07.1	M00001608C:D02	75992
3965	3/24/98	231	RTA00000426F.e.17.1	M00003810C:B06	64089
3966	3/24/98	104	RTA00000527F.b.18.1	M00003810D:H09	37469
3967	3/24/98	312	RTA00000426F.f.17.1	M00003811C:C02	66334
3968	3/24/98	266	RTA00000426F.f.16.1	M00003813B:F02	65613
3969	3/24/98	183	RTA00000527F.c.04.1	M00003813C:H08	23090
3970	3/24/98	435	RTA00000523F.c.13.1	M00003813D:B12	40668
3971	3/24/98	255	RTA00000523F.c.14.1	M00003813D:C02	66015
3972	3/24/98	131	RTA00000523F.c.15.1	M00003813D:G06	36935
3973	3/24/98	270	RTA00000426F.g.16.1	M00003814B:C01	41446
3974	3/24/98	95	RTA00000523F.c.18.1	M00003817C:A10	66179
3975	3/24/98	329	RTA00000527F.c.09.1	M00003817C:G06	64859
3976	3/24/98	65	RTA00000523F.c.01.1	M00003810A:A02	65710
3977	3/24/98	398	RTA00000527F.c.16.1	M00003821A:H09	22908
3978	3/24/98	96	RTA00000523F.b.13.1	M00003809B:A03	66330
3979	3/24/98	313	RTA00000523F.j.21.1	M00003966C:A12	36925
3980	3/24/98	86	RTA00000523F.k.01.1	M00003966C:F03	41437
3981	3/24/98	26	RTA00000427F.b.23.1	M00003973D:F08	64297
3982	3/24/98	277	RTA00000427F.e.08.1	M00003974D:E01	47387
3983	3/24/98	397	RTA00000427F.e.10.1	M00003974D:H07	64599
3984	3/24/98	31	RTA00000427F.c.10.1	M00003976B:E06	65478
3985	3/24/98	151	RTA00000427F.c.12.1	M00003976B:H07	66995
3986	3/24/98	57	RTA00000427F.c.20.1	M00003978A:E01	26527
3987	3/24/98	213	RTA00000427F.c.22.1	M00003978A:E09	63990

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
3988	3/24/98	289	RTA00000427F.d.10.1	M00003978C:A12	40685
3989	3/24/98	28	RTA00000427F.d.08.1	M00003980C:E12	63967
3990	3/24/98	335	RTA00000427F.d.09.1	M00003980C:F12	66486
3991	3/24/98	267	RTA00000425F.i.21.1	M00001635B:B02	75305
3992	3/24/98	343	RTA00000527F.c.11.1	M00003817D:D12	37484
3993	3/24/98	251	RTA00000425F.f.24.1	M00001656D:C04	40841
3994	3/24/98	155	RTA00000424F.l.19.1	M00001609C:A12	75454
3995	3/24/98	321	RTA00000424F.m.04.1	M00001609C:G05	79017
3996	3/24/98	214	RTA00000424F.k.12.1	M00001610C:B07	77666
3997	3/24/98	446	RTA00000425F.f.20.1	M00001653D:H07	74071
3998	3/24/98	428	RTA00000522F.l.08.1	M00001654A:E08	78781
3999	3/24/98	295	RTA00000522F.l.15.1	M00001654B:A01	74691
4000	3/24/98	275	RTA00000522F.l.22.1	M00001654C:D10	75801
4001	3/24/98	223	RTA00000522F.m.02.1	M00001654C:G07	76834
4002	3/24/98	391	RTA00000522F.m.03.1	M00001654C:G09	79194
4003	3/24/98	346	RTA00000522F.m.19.1	M00001655C:C07	41544
4004	3/24/98	51	RTA00000522F.n.02.1	M00001655D:E08	74959
4005	3/24/98	94	RTA00000522F.n.05.1	M00001655D:H11	73260
4006	3/24/98	332	RTA00000523F.c.03.1	M00003810B:B11	36913
4007	3/24/98	172	RTA00000425F.f.11.1	M00001656C:C04	79275
4008	3/24/98	58	RTA00000527F.k.06.1	M00003981B:B12	12469
4009	3/24/98	240	RTA00000522F.n.14.1	M00001657C:C11	73410
4010	3/24/98	56	RTA00000522F.n.16.1	M00001657D:A10	26769
4011	3/24/98	20	RTA00000522F.o.06.1	M00001659D:A09	26860
4012	3/24/98	38	RTA00000528F.i.22.1	M00001661D:D05	2478
4013	3/24/98	413	RTA00000425F.i.10.1	M00001664B:E08	78736
4014	3/24/98	412	RTA00000425F.i.11.1	M00001664B:F06	21716
4015	3/24/98	202	RTA00000528F.j.11.1	M00001669B:C12	1070
4016	3/24/98	432	RTA00000522F.o.20.1	M00001669C:B09	74853
4017	3/24/98	245	RTA00000522F.p.09.1	M00001670A:F09	75204
4018	3/24/98	331	RTA00000528F.k.10.1	M00001678C:F09	1981
4019	3/24/98	356	RTA00000523F.a.07.1	M00001693A:H06	75804
4020	3/24/98	200	RTA00000527F.a.13.1	M00003805D:E06	37740
4021	3/24/98	14	RTA00000523F.b.02.1	M00003806C:A06	65163
4022	3/24/98	177	RTA00000522F.n.12.1	M00001656A:H12	74117
4023	2/24/98	1158	RTA00000405F.o.03.1	M00003829C:H05	37575
4024	2/24/98	1181	RTA00000346F.f.14.1	M00003800B:F03	16998
4025	2/24/98	610	RTA00000419F.d.07.1	M00003820B:D10	21421
4026	2/24/98	1227	RTA00000411F.g.05.1	M00003822D:B10	64664
4027	2/24/98	412	RTA00000411F.g.06.1	M00003822D:C06	66065
4028	2/24/98	21	RTA00000411F.g.08.1	M00003822D:D04	45815
4029	2/24/98	1208	RTA00000347F.e.24.1	M00003823B:F07	8188
4030	2/24/98	502	RTA00000341F.d.08.1	M00003824C:D07	0
4031	2/24/98	528	RTA00000405F.n.16.1	M00003825B:B10	21503
4032	2/24/98	15	RTA00000419F.c.19.1	M00003820A:A08	64346
4033	2/24/98	637	RTA00000419F.d.14.1	M00003828A:D05	64945
4034	2/24/98	81	RTA00000419F.c.16.1	M00003819D:B01	65254
4035	2/24/98	754	RTA00000419F.e.02.1	M00003830C:A03	65010
4036	2/24/98	430	RTA00000419F.e.04.1	M00003831C:G05	62963
4037	2/24/98	541	RTA00000411F.h.15.1	M00003832A:A09	65160

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4038	2/24/98	1079	RTA00000419F.e.10.1	M00003833B:B03	63225
4039	2/24/98	577	RTA00000419F.e.11.1	M00003833B:C12	36780
4040	2/24/98	1220	RTA00000419F.e.23.1	M00003834B:G04	65772
4041	2/24/98	691	RTA00000354R.n.08.1	M00003835A:A09	8802
4042	2/24/98	536	RTA00000411F.i.02.1	M00003835B:H11	66975
4043	2/24/98	421	RTA00000419F.f.10.1	M00003835D:G06	66193
4044	2/24/98	1150	RTA00000411F.g.24.1	M00003825B:B11	65233
4045	2/24/98	533	RTA00000423F.e.11.1	M00003809B:E10	2566
4046	2/24/98	520	RTA00000406F.c.20.1	M00003871D:G06	38578
4047	2/24/98	41	RTA00000419F.b.12.1	M00003806B:C09	63148
4048	2/24/98	917	RTA00000423F.e.21.1	M00003806B:G05	66961
4049	2/24/98	326	RTA00000419F.b.15.1	M00003806D:D11	43969
4050	2/24/98	297	RTA00000419F.b.18.1	M00003808D:D08	67034
4051	2/24/98	139	RTA00000419F.b.19.1	M00003809A:C01	65534
4052	2/24/98	1021	RTA00000419F.b.21.1	M00003809A:F01	65366
4053	2/24/98	1152	RTA00000405F.m.07.1	M00003809B:B02	37733
4054	2/24/98	310	RTA00000419F.d.06.1	M00003820B:D07	65496
4055	2/24/98	120	RTA00000401F.m.02.1	M00003907A:F01	1573
4056	2/24/98	69	RTA00000405F.o.18.1	M00003839A:D07	11016
4057	2/24/98	482	RTA00000411F.e.24.1	M00003813A:B02	64781
4058	2/24/98	50	RTA00000411F.f.02.1	M00003813A:D08	63386
4059	2/24/98	602	RTA00000411F.f.06.1	M00003813B:E09	64186
4060	2/24/98	761	RTA00000411F.f.14.1	M00003814B:C12	62984
4061	2/24/98	674	RTA00000411F.f.17.1	M00003814B:F12	65661
4062	2/24/98	1164	RTA00000405F.m.21.1	M00003815C:C06	24218
4063	2/24/98	951	RTA00000419F.c.04.1	M00003815C:D12	63749
4064	2/24/98	471	RTA00000419F.c.11.1	M00003817B:C04	65504
4065	2/24/98	1047	RTA00000419F.c.14.1	M00003819B:G01	65727
4066	2/24/98	1178	RTA00000400F.f.11.1	M00001636A:E07	4088
4067	2/24/98	89	RTA00000406F.c.08.1	M00003870C:A10	22387
4068	2/24/98	94	RTA00000406F.a.23.1	M00003867B:D10	38712
4069	2/24/98	1038	RTA00000406F.b.01.1	M00003867B:G07	39006
4070	2/24/98	783	RTA00000406F.b.02.1	M00003867B:G08	38744
4071	2/24/98	563	RTA00000406F.b.08.1	M00003867D:A06	18258
4072	2/24/98	1072	RTA00000419F.j.03.1	M00003868B:G06	77578
4073	2/24/98	846	RTA00000419F.j.11.1	M00003868C:C07	73183
4074	2/24/98	17	RTA00000411F.m.15.1	M00003868D:B09	78014
4075	2/24/98	589	RTA00000411F.m.18.1	M00003868D:D09	75629
4076	2/24/98	971	RTA00000411F.i.11.1	M00003837C:E05	66849
4077	2/24/98	794	RTA00000406F.c.06.1	M00003870C:A01	37924
4078	2/24/98	788	RTA00000419F.i.04.1	M00003860B:F11	65791
4079	2/24/98	883	RTA00000406F.c.09.1	M00003870C:E10	5671
4080	2/24/98	918	RTA00000419F.j.22.1	M00003871A:A02	73525
4081	2/24/98	757	RTA00000423F.h.13.1	M00003871A:B09	14398
4082	2/24/98	208	RTA00000419F.j.23.1	M00003871A:C11	74470
4083	2/24/98	1127	RTA00000401F.g.22.1	M00003871A:G09	1147
4084	2/24/98	1205	RTA00000419F.k.05.1	M00003871C:E04	11757
4085	2/24/98	522	RTA00000406F.c.18.1	M00003871C:F12	14368
4086	2/24/98	459	RTA00000419F.k.06.1	M00003871D:A10	78493
4087	2/24/98	965	RTA00000411F.n.06.1	M00003871D:E11	73886

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4088	2/24/98	457	RTA00000411F.m.19.1	M00003868D:D11	74924
4089	2/24/98	145	RTA00000419F.g.12.1	M00003842C:G03	66171
4090	2/24/98	633	RTA00000341F.d.02.1	M00003797A:G03	4706
4091	2/24/98	1026	RTA00000419F.f.18.1	M00003839D:E11	64047
4092	2/24/98	524	RTA00000419F.f.23.1	M00003840D:H10	65002
4093	2/24/98	204	RTA00000351R.k.19.1	M00003841B:E03	936
4094	2/24/98	968	RTA00000419F.f.24.1	M00003841B:E06	18717
4095	2/24/98	209	RTA00000411F.j.02.1	M00003841C:D07	65310
4096	2/24/98	1118	RTA00000411F.j.03.1	M00003841C:F01	66263
4097	2/24/98	470	RTA00000411F.j.06.1	M00003841C:H08	63545
4098	2/24/98	1153	RTA00000411F.j.07.1	M00003841C:H11	66963
4099	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
4099	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0
4100	2/24/98	777	RTA00000419F.g.02.1	M00003842A:A03	62839
4101	2/24/98	678	RTA00000195AF.c.24.1	M00003860D:H07	0
4101	1/28/98	412	RTA00000195AF.c.24.1	M00003860D:H07	0
4102	2/24/98	799	RTA00000411F.j.15.1	M00003843A:E04	66871
4103	2/24/98	932	RTA00000405F.p.03.1	M00003844A:A11	11346
4104	2/24/98	266	RTA00000419F.g.15.1	M00003844D:A07	32519
4105	2/24/98	547	RTA00000419F.h.02.1	M00003845D:G08	63985
4106	2/24/98	290	RTA00000411F.k.16.1	M00003852C:B06	64759
4107	2/24/98	23	RTA00000411F.k.20.1	M00003854B:A07	64973
4108	2/24/98	1138	RTA00000411F.k.21.1	M00003854B:D04	65349
4109	2/24/98	1000	RTA00000351R.j.21.1	M00003859D:C05	31604
4110	2/24/98	980	RTA00000411F.i.13.1	M00003837C:F10	66138
4111	2/24/98	112	RTA00000422F.c.11.1	M00003841D:A04	2643
4112	2/24/98	905	RTA00000405F.g.21.2	M00001673B:F07	38966
4112	2/24/98	906	RTA00000405F.g.21.1	M00001673B:F07	38966
4113	2/24/98	294	RTA00000405F.l.17.1	M00003805A:F02	17225
4114	2/24/98	105	RTA00000346F.d.08.1	M00001671A:A10	39955
4115	2/24/98	1190	RTA00000405F.g.02.2	M00001671B:G05	10567
4116	2/24/98	280	RTA00000418F.p.15.1	M00001671C:C11	31066
4117	2/24/98	1151	RTA00000405F.g.18.2	M00001672D:E08	5255
4118	2/24/98	66	RTA00000405F.g.19.2	M00001673A:G08	37150
4119	2/24/98	1239	RTA00000340F.o.22.1	M00001673B:B07	7356
4120	2/24/98	906	RTA00000405F.g.21.1	M00001673B:F07	38966
4120	2/24/98	905	RTA00000405F.g.21.2	M00001673B:F07	38966
4121	2/24/98	893	RTA00000418F.p.10.1	M00001669D:F05	75323
4122	2/24/98	906	RTA00000405F.g.21.1	M00001673B:F07	38966
4122	2/24/98	905	RTA00000405F.g.21.2	M00001673B:F07	38966
4123	2/24/98	808	RTA00000418F.p.08.1	M00001669D:D06	73983
4124	2/24/98	469	RTA00000405F.g.24.1	M00001673D:D06	39076
4125	2/24/98	1094	RTA00000405F.h.03.2	M00001673D:F10	20633
4126	2/24/98	803	RTA00000405F.h.05.2	M00001674A:G07	75706
4127	2/24/98	667	RTA00000405F.h.07.2	M00001674A:G11	4984
4128	2/24/98	276	RTA00000423F.a.18.1	M00001675A:G10	26761
4129	2/24/98	1050	RTA00000405F.f.05.2	M00001669C:D09	14359
4129	2/24/98	1049	RTA00000405F.f.05.1	M00001669C:D09	14359
4130	2/24/98	1050	RTA00000405F.f.05.2	M00001669C:D09	14359
4130	2/24/98	1049	RTA00000405F.f.05.1	M00001669C:D09	14359

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4131	2/24/98	104	RTA00000421F.n.03.1	M00001675C:A04	1638
4132	2/24/98	388	RTA00000411F.a.07.1	M00001675C:C03	74547
4133	2/24/98	906	RTA00000405F.g.21.1	M00001673B:F07	38966
4133	2/24/98	905	RTA00000405F.g.21.2	M00001673B:F07	38966
4134	2/24/98	222	RTA00000405F.e.09.1	M00001663C:F12	38978
4135	2/24/98	518	RTA00000410F.m.18.1	M00001660B:A09	76365
4136	2/24/98	218	RTA00000346F.e.13.1	M00001660B:D03	74653
4137	2/24/98	427	RTA00000410F.m.20.1	M00001660B:E03	74285
4138	2/24/98	1099	RTA00000400F.m.16.1	M00001660B:E04	3307
4139	2/24/98	775	RTA00000405F.c.22.1	M00001660C:B06	39053
4140	2/24/98	28	RTA00000422F.p.06.2	M00001661A:B11	39282
4141	2/24/98	108	RTA00000418F.o.18.1	M00001661B:F06	78676
4142	2/24/98	954	RTA00000410F.n.05.1	M00001662A:C07	77830
4143	2/24/98	1182	RTA00000346F.d.21.1	M00001670B:G12	6641
4144	2/24/98	1043	RTA00000423F.b.17.1	M00001662B:F06	8200
4145	2/24/98	447	RTA00000423F.b.04.3	M00001675D:E10	6311
4146	2/24/98	305	RTA00000418F.p.06.1	M00001664A:F08	32628
4147	2/24/98	1116	RTA00000410F.o.04.1	M00001664D:F04	79018
4148	2/24/98	320	RTA00000422F.p.07.2	M00001661A:E06	39024
4149	2/24/98	197	RTA00000410F.o.05.1	M00001669A:B02	75262
4150	2/24/98	738	RTA00000422F.n.20.1	M00001669B:B12	38676
4151	2/24/98	495	RTA00000400F.o.21.1	M00001669C:C08	16259
4152	2/24/98	1050	RTA00000405F.f.05.2	M00001669C:D09	14359
4152	2/24/98	1049	RTA00000405F.f.05.1	M00001669C:D09	14359
4153	2/24/98	1049	RTA00000405F.f.05.1	M00001669C:D09	14359
4153	2/24/98	1050	RTA00000405F.f.05.2	M00001669C:D09	14359
4154	2/24/98	492	RTA00000340F.o.18.1	M00001669D:C03	4261
4155	2/24/98	61	RTA00000410F.n.07.1	M00001662A:G01	78823
4156	2/24/98	299	RTA00000405F.l.15.1	M00001694A:E03	19575
4157	2/24/98	475	RTA00000411F.d.05.1	M00001681C:A08	75812
4158	2/24/98	692	RTA00000411F.d.10.1	M00001681D:C12	76445
4159	2/24/98	336	RTA00000340F.n.13.1	M00001688D:B10	17055
4160	2/24/98	270	RTA00000411F.d.15.1	M00001692A:B06	74890
4161	2/24/98	969	RTA00000411F.d.18.1	M00001692A:G06	76063
4162	2/24/98	927	RTA00000411F.d.21.1	M00001692B:E01	74794
4163	2/24/98	1133	RTA00000405F.l.03.1	M00001692D:B01	38580
4164	2/24/98	576	RTA00000401F.d.15.2	M00001693C:C12	5297
4165	2/24/98	1059	RTA00000405F.h.21.2	M00001675C:D12	39072
4166	2/24/98	780	RTA00000405F.l.11.1	M00001693D:E08	2055
4167	2/24/98	933	RTA00000419F.a.18.1	M00001680A:B02	78484
4168	2/24/98	631	RTA00000411F.e.03.1	M00001694D:C12	73648
4169	2/24/98	585	RTA00000340R.o.12.1	M00003746C:E02	53732
4170	2/24/98	604	RTA00000351R.c.13.1	M00003747D:C05	11476
4171	2/24/98	187	RTA00000351R.g.11.1	M00003779D:E08	3077
4172	2/24/98	1060	RTA00000346F.g.02.1	M00003792A:B10	6901
4173	2/24/98	690	RTA00000341F.b.05.1	M00003793D:A11	0
4174	2/24/98	86	RTA00000346F.g.22.1	M00003794D:G03	6371
4175	2/24/98	1051	RTA00000346F.h.24.1	M00003797A:C11	4379
4176	2/24/98	377	RTA00000346F.i.01.1	M00003797A:D06	22260
4177	2/24/98	963	RTA00000405F.l.07.1	M00001693C:E09	38636

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4178	2/24/98	121	RTA00000418F.p.19.1	M00001677D:B01	78544
4179	2/24/98	781	RTA00000423F.f.09.1	M00003808C:A05	64823
4180	2/24/98	1028	RTA00000346F.d.12.1	M00001676B:B09	11777
4181	2/24/98	82	RTA00000411F.b.03.1	M00001676B:E01	23634
4182	2/24/98	465	RTA00000350R.p.18.1	M00001676B:F05	11460
4183	2/24/98	56	RTA00000411F.b.06.1	M00001676C:A04	77884
4184	2/24/98	789	RTA00000423F.b.13.1	M00001676C:E07	20619
4185	2/24/98	267	RTA00000423F.a.19.1	M00001676D:A02	21396
4186	2/24/98	836	RTA00000411F.b.17.1	M00001676D:B02	72893
4187	2/24/98	370	RTA00000405F.i.20.1	M00001677A:G11	38532
4188	2/24/98	39	RTA00000187AF.l.7.1	M00001680D:F08	10539
4189	2/24/98	389	RTA00000411F.c.02.1	M00001677B:B04	72852
4190	2/24/98	1004	RTA00000419F.a.24.1	M00001680B:D02	79290
4191	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
4191	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
4192	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
4192	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
4193	2/24/98	500	RTA00000411F.c.10.1	M00001678D:B11	73117
4194	2/24/98	323	RTA00000421F.n.19.1	M00001679A:D10	16409
4195	2/24/98	309	RTA00000340F.n.01.1	M00001679A:G06	39081
4196	2/24/98	337	RTA00000340F.p.04.1	M00001679D:B02	78533
4197	1/28/98	238	RTA00000187AR.k.12.1	M00001679D:F02	78415
4197	2/24/98	407	RTA00000340R.m.07.1	M00001679D:F02	78415
4198	1/28/98	238	RTA00000187AR.k.12.1	M00001679D:F02	78415
4198	2/24/98	407	RTA00000340R.m.07.1	M00001679D:F02	78415
4199	2/24/98	387	RTA00000411F.a.15.1	M00001675D:B08	73812
4200	2/24/98	48	RTA00000411F.b.24.1	M00001677B:A12	30041
4201	2/24/98	234	RTA00000195AF.d.4.1	M00003881D:D06	22766
4201	1/28/98	185	RTA00000195AF.d.4.1	M00003881D:D06	22766
4202	2/24/98	130	RTA00000406F.f.12.1	M00003879A:C11	21895
4203	2/24/98	953	RTA00000406F.f.05.1	M00003878C:F06	22961
4204	2/24/98	138	RTA00000406F.f.03.1	M00003878C:D08	38687
4205	2/24/98	673	RTA00000406F.d.09.1	M00003875B:F12	38591
4206	2/24/98	136	RTA00000419F.l.12.1	M00003901C:B01	75710
4207	2/24/98	300	RTA00000406F.g.17.1	M00003881B:F10	37979
4208	2/24/98	2	RTA00000406F.d.16.1	M00003875C:G02	15040
4209	2/24/98	1207	RTA00000401F.j.21.1	M00003901B:F10	0
4210	2/24/98	494	RTA00000419F.k.12.1	M00003876C:F02	0
4211	2/24/98	515	RTA00000419F.l.03.1	M00003879A:D02	79060
4212	2/24/98	26	RTA00000423F.h.18.1	M00003876C:D02	37972
4213	2/24/98	49	RTA00000406F.d.12.1	M00003875C:A01	38575
4214	2/24/98	986	RTA00000406F.d.24.1	M00003876B:C05	37997
4215	2/24/98	150	RTA00000419F.k.19.1	M00003877C:G12	75447
4216	2/24/98	538	RTA00000423F.g.04.1	M00003903D:C12	23012
4217	2/24/98	1046	RTA00000346F.j.06.1	M00003879A:A02	5767
4218	2/24/98	868	RTA00000406F.i.08.1	M00003903C:E12	37946
4219	2/24/98	409	RTA00000406F.f.11.1	M00003879A:B08	38601
4220	2/24/98	924	RTA00000354R.m.02.1	M00003890B:C08	12766
4221	2/24/98	543	RTA00000419F.k.24.1	M00003878C:G08	75596
4222	1/28/98	185	RTA00000195AF.d.4.1	M00003881D:D06	22766

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4222	2/24/98	234	RTA00000195AF.d.4.1	M00003881D:D06	22766
4223	2/24/98	382	RTA00000341F.h.10.1	M00003901B:G11	0
4224	2/24/98	550	RTA00000411F.n.20.1	M00003875C:A09	75816
4225	2/24/98	614	RTA00000406F.i.13.1	M00003904A:C04	37904
4226	2/24/98	13	RTA00000406F.f.18.1	M00003879B:G02	38587
4227	2/24/98	1256	RTA00000401F.k.19.1	M00003903D:D10	799
4228	2/24/98	185	RTA00000423F.j.05.1	M00003903C:C05	37958
4229	2/24/98	177	RTA00000406F.i.12.1	M00003903D:H11	39080
4230	2/24/98	802	RTA00000406F.g.03.1	M00003880B:D11	38690
4231	2/24/98	34	RTA00000411F.n.11.1	M00003875A:B01	77276
4232	2/24/98	498	RTA00000406F.e.15.1	M00003877C:A11	39074
4233	2/24/98	929	RTA00000411F.n.09.1	M00003875A:A07	78962
4234	2/24/98	984	RTA00000406F.g.08.1	M00003880C:H03	37963
4235	2/24/98	818	RTA00000406F.h.05.1	M00003901B:C03	38542
4236	2/24/98	592	RTA00000421F.p.18.1	M00003877B:H10	750
4237	2/24/98	313	RTA00000406F.g.07.1	M00003880C:E11	37925
4238	1/28/98	324	RTA00000184F.j.06.1	M00001556B:G02	11294
4239	2/24/98	773	RTA00000406F.h.03.1	M00003901B:A09	38585
4240	3/24/98	244	RTA00000426F.p.09.1	M00004033D:B07	66665
4241	3/24/98	222	RTA00000426F.p.10.1	M00004033D:C05	65845
4242	1/28/98	181	RTA00000198AF.d.2.1	M00001585A:F07	0
4243	1/28/98	77	RTA00000197AF.n.2.1	M00001535A:D02	6229
4244	2/24/98	844	RTA00000411F.a.09.1	M00001675C:F01	78629
4245	2/24/98	352	RTA00000411F.a.10.1	M00001675C:G01	73073
4246	3/24/98	272	RTA00000426F.m.02.1	M00004034C:C06	66237
4247	3/24/98	429	RTA00000525F.a.14.1	M00004033B:C02	37566
4248	2/24/98	118	RTA00000408F.h.03.1	M00001479D:H03	78382
4249	3/24/98	156	RTA00000525F.b.22.1	M00004037C:D07	16679
4250	2/24/98	70	RTA00000409F.m.13.1	M00001618B:E05	0
4251	2/24/98	1198	RTA00000412F.f.10.2	M00003959A:A03	65405
4252	2/24/98	1139	RTA00000404F.h.20.1	M00001619B:A09	15564
4253	3/24/98	41	RTA00000525F.b.17.1	M00004037B:A04	24715
4254	3/24/98	452	RTA00000525F.a.22.1	M00004033D:G06	36848
4255	2/24/98	1019	RTA00000403F.g.03.1	M00001479D:G06	23537
4256	2/24/98	532	RTA00000403F.a.24.1	M00001455B:A09	24128
4257	3/24/98	5	RTA00000426F.p.04.1	M00004029B:H08	34149
4258	3/24/98	43	RTA00000527F.p.07.1	M00004029C:B03	23343
4259	2/24/98	562	RTA00000401F.j.17.1	M00003901B:C05	5483
4260	2/24/98	303	RTA00000130A.h.22.1	M00001617A:D06	80933
4261	2/24/98	1201	RTA00000409F.m.02.1	M00001616C:A11	9157
4262	3/24/98	241	RTA00000527F.o.12.1	M00004028B:G08	688
4263	2/24/98	1170	RTA00000409F.l.24.1	M00001616C:A02	73174
4264	2/24/98	176	RTA00000403F.b.10.1	M00001455C:G07	73268
4265	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
4265	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
4266	1/28/98	190	RTA00000134A.c.7.1	M00001528A:A01	5175
4266	1/28/98	176	RTA00000183AF.h.19.1	M00001528A:A01	5175
4267	3/24/98	90	RTA00000525F.a.03.1	M00004031D:F05	36786
4268	3/24/98	236	RTA00000527F.o.01.1	M00004027A:D06	19088
4269	3/24/98	339	RTA00000426F.m.03.1	M00004034C:E08	66480

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4270	1/28/98	183	RTA00000198AF.c.17.1	M00001579C:E08	6923
4271	3/24/98	44	RTA00000527F.p.17.1	M00004030C:D12	17223
4272	3/24/98	129	RTA00000527F.p.18.1	M00004030D:B06	31635
4273	3/24/98	402	RTA00000527F.p.24.1	M00004031B:A06	36832
4274	3/24/98	118	RTA00000525F.a.02.1	M00004031C:H10	37454
4275	1/28/98	353	RTA00000198F.a.9.1	M00001557D:C08	0
4276	2/24/98	1250	RTA00000403F.f.15.1	M00001477D:F10	22768
4277	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
4277	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
4278	2/24/98	428	RTA00000422F.f.14.1	M00001478B:D07	2036
4279	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
4279	1/28/98	304	RTA00000182AR.c.5.1	M00001464D:F06	6397
4280	2/24/98	205	RTA00000138A.n.4.1	M00001624A:G11	21920
4281	2/24/98	251	RTA00000119A.i.9.1	M00001457A:G03	0
4282	3/24/98	250	RTA00000427F.h.24.1	M00004091B:H09	65193
4283	1/28/98	61	RTA00000197AF.h.11.1	M00001476D:G03	22264
4284	3/24/98	216	RTA00000427F.h.11.1	M00004092C:B12	26494
4285	1/28/98	110	RTA00000197R.h.01.1	M00001470A:H01	13075
4285	1/28/98	591	RTA00000197AF.h.1.1	M00001470A:H01	13075
4286	1/28/98	110	RTA00000197R.h.01.1	M00001470A:H01	13075
4286	1/28/98	591	RTA00000197AF.h.1.1	M00001470A:H01	13075
4287	3/24/98	276	RTA00000427F.h.19.1	M00004092D:B11	63047
4288	1/28/98	335	RTA00000182AF.e.3.2	M00001468B:H06	0
4289	3/24/98	475	RTA00000427F.i.06.1	M00004097B:D03	41450
4290	2/24/98	286	RTA00000404F.i.19.1	M00001625B:C10	38698
4291	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
4291	1/28/98	304	RTA00000182AR.c.5.1	M00001464D:F06	6397
4292	2/24/98	1165	RTA00000408F.c.08.1	M00001456D:G11	73473
4293	1/28/98	304	RTA00000182AR.c.5.1	M00001464D:F06	6397
4293	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
4294	1/28/98	138	RTA00000182AF.a.3.3	M00001462B:A10	0
4295	1/28/98	36	RTA00000181AF.p.4.3	M00001460A:A03	40392
4296	2/24/98	523	RTA00000418F.j.09.1	M00001626C:D12	76352
4297	2/24/98	296	RTA00000347F.d.06.1	M00001457C:F02	39122
4298	1/28/98	390	RTA00000197AR.f.07.1	M00001457C:C11	19261
4298	1/28/98	184	RTA00000197AF.f.7.1	M00001457C:C11	19261
4299	1/28/98	184	RTA00000197AF.f.7.1	M00001457C:C11	19261
4299	1/28/98	390	RTA00000197AR.f.07.1	M00001457C:C11	19261
4300	1/28/98	133	RTA00000181AR.n.20.3	M00001457B:E03	0
4301	3/24/98	132	RTA00000427F.k.17.1	M00004101A:F07	64965
4302	3/24/98	218	RTA00000427F.i.19.1	M00004102C:D01	64206
4303	3/24/98	436	RTA00000427F.i.21.1	M00004102C:F03	65540
4304	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
4304	1/28/98	304	RTA00000182AR.c.5.1	M00001464D:F06	6397
4305	1/28/98	176	RTA00000183AF.h.19.1	M00001528A:A01	5175
4305	1/28/98	190	RTA00000134A.c.7.1	M00001528A:A01	5175
4306	1/28/98	12	RTA00000183AF.i.15.2	M00001529B:C04	2642
4306	2/24/98	379	RTA00000349R.j.07.1	M00001529B:C04	2642
4307	2/24/98	1156	RTA00000408F.f.10.2	M00001476D:C05	75309
4308	2/24/98	366	RTA00000403F.c.10.1	M00001456D:F05	75261

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4309	2/24/98	353	RTA00000409F.n.17.1	M00001621C:C10	76725
4310	2/24/98	526	RTA00000411F.a.05.1	M00001675B:H03	76699
4311	2/24/98	90	RTA00000411F.a.02.1	M00001675B:E02	78537
4312	2/24/98	952	RTA00000411F.a.01.1	M00001675B:D02	74524
4313	2/24/98	392	RTA00000410F.p.23.1	M00001675B:C01	73948
4314	2/24/98	238	RTA00000340F.j.12.1	M00001624A:B06	3277
4315	1/28/98	176	RTA00000183AF.h.19.1	M00001528A:A01	5175
4315	1/28/98	190	RTA00000134A.c.7.1	M00001528A:A01	5175
4316	2/24/98	298	RTA00000406F.h.07.1	M00003901B:H04	38003
4317	1/28/98	190	RTA00000134A.c.7.1	M00001528A:A01	5175
4317	1/28/98	176	RTA00000183AF.h.19.1	M00001528A:A01	5175
4318	1/28/98	12	RTA00000183AF.i.15.2	M00001529B:C04	2642
4318	2/24/98	379	RTA00000349R.j.07.1	M00001529B:C04	2642
4319	1/28/98	122	RTA00000197AF.l.15.1	M00001517B:G08	4947
4320	3/24/98	199	RTA00000427F.f.24.1	M00004076D:B09	64572
4321	1/28/98	161	RTA00000183AF.e.23.2	M00001506D:A09	0
4322	1/28/98	17	RTA00000183AR.e.14.2	M00001506B:D09	17437
4323	1/28/98	346	RTA00000197AR.k.22.1	M00001505C:H01	11394
4324	1/28/98	125	RTA00000197AF.k.15.1	M00001504D:D11	22750
4325	1/28/98	212	RTA00000197AF.j.9.1	M00001494B:C01	13236
4326	1/28/98	314	RTA00000182AF.o.5.1	M00001493B:D09	5007
4327	1/28/98	386	RTA00000197AR.j.04.1	M00001492D:A11	17209
4327	1/28/98	259	RTA00000197AF.j.4.1	M00001492D:A11	17209
4328	1/28/98	259	RTA00000197AF.j.4.1	M00001492D:A11	17209
4328	1/28/98	386	RTA00000197AR.j.04.1	M00001492D:A11	17209
4329	1/28/98	94	RTA00000195AF.b.4.1	M00001490C:D07	0
4330	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
4330	1/28/98	83	RTA00000186AF.f.24.2	M00001629B:E06	0
4331	2/24/98	1037	RTA00000339F.l.12.1	M00001450A:G11	7711
4332	1/28/98	432	RTA00000198AF.o.05.1	M00003750A:D01	26702
4332	1/28/98	49	RTA00000198R.o.05.1	M00003750A:D01	26702
4333	2/24/98	468	RTA00000423F.c.19.1	M00001680B:E10	40472
4334	2/24/98	1009	RTA00000399F.o.24.1	M00001607D:A11	2272
4335	1/28/98	281	RTA00000188AF.n.10.1	M00003802D:B11	10283
4336	1/28/98	157	RTA00000188AF.n.01.1	M00003801A:B10	36412
4337	2/24/98	842	RTA00000401F.n.23.1	M00003982A:B06	1552
4338	2/24/98	1216	RTA00000404F.e.07.1	M00001608A:D03	9034
4339	2/24/98	1045	RTA00000408F.j.05.2	M00001483C:G06	73878
4340	2/24/98	483	RTA00000406F.g.22.1	M00003881D:C12	38590
4341	1/28/98	310	RTA00000188AF.m.08.1	M00003798D:H08	22155
4342	1/28/98	118	RTA00000199F.b.24.2	M00003794A:B03	0
4343	1/28/98	218	RTA00000188AF.o.18.1	M00003811D:A12	13678
4344	3/24/98	380	RTA00000427F.e.13.1	M00003959D:A04	66080
4345	1/28/98	315	RTA00000199R.d.23.1	M00003815D:H09	37477
4346	1/28/98	140	RTA00000199F.a.2.1	M00003772A:D07	12674
4347	3/24/98	101	RTA00000523F.j.19.1	M00003966B:D02	65910
4348	1/28/98	278	RTA00000198AF.p.16.1	M00003768A:E02	71877
4349	2/24/98	514	RTA00000404F.e.13.1	M00001608D:E09	12046
4350	1/28/98	508	RTA00000187AF.i.14.2	M00001679B:H07	19406
4350	2/24/98	928	RTA00000340F.m.04.1	M00001679B:H07	19406

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4351	1/28/98	317	RTA00000198AF.p.09.1	M00003761D:E02	10473
4351	1/28/98	186	RTA00000198R.p.09.1	M00003761D:E02	10473
4352	1/28/98	317	RTA00000198AF.p.09.1	M00003761D:E02	10473
4352	1/28/98	186	RTA00000198R.p.09.1	M00003761D:E02	10473
4353	3/24/98	66	RTA00000427F.b.15.1	M00003971C:F09	66891
4354	1/28/98	508	RTA00000187AF.i.14.2	M00001679B:H07	19406
4354	2/24/98	928	RTA00000340F.m.04.1	M00001679B:H07	19406
4355	1/28/98	144	RTA00000198AF.o.18.1	M00003755A:A09	13018
4356	3/24/98	248	RTA00000527F.l.14.1	M00003983D:A09	14935
4357	1/28/98	347	RTA00000199F.b.03.2	M00003779B:E12	38340
4358	1/28/98	272	RTA00000199F.g.08.2	M00003853D:G08	0
4359	1/28/98	263	RTA00000190AF.n.6.1	M00003965A:B11	0
4360	2/24/98	1183	RTA00000346F.j.21.1	M00003879D:A08	3095
4361	2/24/98	553	RTA00000408F.j.12.2	M00001485B:C03	18226
4362	3/24/98	181	RTA00000523F.b.06.1	M00003808A:F09	28736
4363	1/28/98	246	RTA00000199AF.l.4.1	M00003911D:B04	4410
4364	1/28/98	51	RTA00000199R.k.07.1	M00003901C:A03	12973
4365	1/28/98	62	RTA00000190AF.a.18.2	M00003900D:B10	0
4366	1/28/98	117	RTA00000199AF.j.18.1	M00003889D:B09	5140
4367	1/28/98	255	RTA00000199AF.j.17.1	M00003889A:D10	5121
4368	1/28/98	180	RTA00000199AF.j.12.1	M00003887A:A06	22461
4369	3/24/98	256	RTA00000523F.b.20.1	M00003809C:H07	66492
4370	2/24/98	603	RTA00000399F.o.19.1	M00001607A:F11	2594
4371	2/24/98	510	RTA00000131A.g.16.2	M00001449A:F01	0
4372	1/28/98	49	RTA00000198R.o.05.1	M00003750A:D01	26702
4372	1/28/98	432	RTA00000198AF.o.05.1	M00003750A:D01	26702
4373	2/24/98	424	RTA00000138A.e.13.1	M00001605A:E06	79608
4374	1/28/98	90	RTA00000199F.f.15.2	M00003845A:H12	8772
4375	1/28/98	244	RTA00000199F.f.12.2	M00003844C:A08	8131
4376	1/28/98	78	RTA00000199R.f.09.1	M00003842B:D09	22907
4376	1/28/98	406	RTA00000199F.f.09.2	M00003842B:D09	22907
4377	1/28/98	406	RTA00000199F.f.09.2	M00003842B:D09	22907
4377	1/28/98	78	RTA00000199R.f.09.1	M00003842B:D09	22907
4378	1/28/98	44	RTA00000199F.f.08.2	M00003841D:E03	12445
4379	1/28/98	39	RTA00000189AR.b.19.1	M00003832B:E01	5294
4379	2/24/98	239	RTA00000346F.j.02.1	M00003832B:E01	5294
4380	1/28/98	39	RTA00000189AR.b.19.1	M00003832B:E01	5294
4380	2/24/98	239	RTA00000346F.j.02.1	M00003832B:E01	5294
4381	2/24/98	1161	RTA00000346F.m.05.1	M00003983B:C08	5644
4382	2/24/98	887	RTA00000339F.p.06.1	M00001484A:A10	4880
4383	3/24/98	46	RTA00000523F.c.09.1	M00003813C:D08	47389
4384	2/24/98	1206	RTA00000418F.b.20.1	M00001484D:G05	73560
4385	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
4385	1/28/98	83	RTA00000186AF.f.24.2	M00001629B:E06	0
4386	1/28/98	111	RTA00000198AF.o.12.1	M00003751D:B02	22038
4387	3/24/98	365	RTA00000527F.k.16.1	M00003982B:B06	1015
4388	2/24/98	1113	RTA00000418F.p.21.1	M00001677D:F03	78068
4389	3/24/98	281	RTA00000527F.k.20.1	M00003982B:H07	17148
4390	1/28/98	360	RTA00000198F.i.5.1	M00001638A:D10	39989
4391	1/28/98	55	RTA00000186AF.i.21.1	M00001636C:H09	6033

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4392	1/28/98	316	RTA00000198AF.h.24.1	M00001636C:C01	8390
4393	1/28/98	208	RTA00000198AF.h.22.1	M00001635C:A03	22366
4394	2/24/98	1031	RTA00000404F.g.08.1	M00001613D:H10	38980
4395	3/24/98	382	RTA00000427F.a.12.1	M00003982C:H10	63377
4396	2/24/98	916	RTA00000418F.p.20.1	M00001677D:B07	78023
4397	1/28/98	91	RTA00000198AF.j.19.1	M00001653C:F12	38914
4398	2/24/98	858	RTA00000341F.e.20.1	M00003891D:B10	67422
4399	1/28/98	354	RTA00000198R.k.03.1	M00001655A:F06	22765
4399	1/28/98	158	RTA00000198AF.k.03.1	M00001655A:F06	22765
4400	3/24/98	219	RTA00000427F.f.17.1	M00004115A:B12	63803
4401	3/24/98	153	RTA00000527F.l.13.1	M00003983C:F10	36904
4402	3/24/98	320	RTA00000427F.j.06.1	M00004102D:B05	63676
4403	2/24/98	762	RTA00000411F.c.04.1	M00001677B:E06	76858
4404	2/24/98	957	RTA00000411F.c.03.1	M00001677B:B06	79280
4405	3/24/98	479	RTA00000527F.l.23.1	M00003984A:B06	36018
4406	1/28/98	329	RTA00000186AF.b.9.1	M00001616C:F07	0
4407	2/24/98	1115	RTA00000340F.i.08.1	M00001615B:F07	12005
4408	2/24/98	1022	RTA00000401F.j.15.1	M00003901A:C09	3061
4409	1/28/98	4	RTA00000198R.f.04.1	M00001607D:F07	5023
4410	3/24/98	173	RTA00000426F.m.18.1	M00003986D:G07	62974
4411	2/24/98	616	RTA00000423F.c.11.1	M00001677D:B02	0
4412	1/28/98	345	RTA00000187AF.h.21.1	M00001679A:F01	39171
4413	2/24/98	621	RTA00000408F.i.18.2	M00001482C:D02	74410
4414	1/28/98	344	RTA00000198AF.o.02.1	M00003748A:B07	68756
4415	2/24/98	257	RTA00000411F.c.17.1	M00001678D:G03	77664
4416	2/24/98	944	RTA00000422F.k.24.1	M00001610C:E06	39118
4417	2/24/98	876	RTA00000423F.d.16.1	M00001678D:C11	39173
4418	2/24/98	1144	RTA00000345F.j.09.1	M00001451B:F01	13
4419	1/28/98	242	RTA00000198AF.m.17.1	M00001679D:F06	77992
4419	1/28/98	260	RTA00000198R.m.17.1	M00001679D:F06	77992
4420	1/28/98	260	RTA00000198R.m.17.1	M00001679D:F06	77992
4420	1/28/98	242	RTA00000198AF.m.17.1	M00001679D:F06	77992
4421	1/28/98	242	RTA00000198AF.m.17.1	M00001679D:F06	77992
4421	1/28/98	260	RTA00000198R.m.17.1	M00001679D:F06	77992
4422	1/28/98	260	RTA00000198R.m.17.1	M00001679D:F06	77992
4422	1/28/98	242	RTA00000198AF.m.17.1	M00001679D:F06	77992
4423	1/28/98	238	RTA00000187AR.k.12.1	M00001679D:F02	78415
4423	2/24/98	407	RTA00000340R.m.07.1	M00001679D:F02	78415
4424	1/28/98	276	RTA00000198AF.j.15.1	M00001653B:E09	4369
4425	1/28/98	65	RTA00000198AF.m.16.1	M00001679D:D05	51
4426	1/28/98	257	RTA00000198AF.e.20.1	M00001604C:E09	9810
4427	2/24/98	820	RTA00000423F.d.11.1	M00001678C:C06	38950
4428	3/24/98	466	RTA00000427F.d.06.1	M00003980B:C06	33446
4429	2/24/98	455	RTA00000399F.d.23.1	M00001481B:A07	3310
4430	2/24/98	851	RTA00000423F.d.07.1	M00001678B:B12	0
4431	1/28/98	142	RTA00000198AF.k.19.1	M00001660B:C04	75879
4432	2/24/98	485	RTA00000419F.a.02.1	M00001678A:F05	77993
4433	3/24/98	224	RTA00000527F.k.09.1	M00003981C:F05	213
4434	2/24/98	1032	RTA00000423F.c.13.1	M00001678A:A11	39059
4435	1/28/98	354	RTA00000198R.k.03.1	M00001655A:F06	22765

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4435	1/28/98	158	RTA00000198AF.k.03.1	M00001655A:F06	22765
4436	1/28/98	354	RTA00000198R.k.03.1	M00001655A:F06	22765
4436	1/28/98	158	RTA00000198AF.k.03.1	M00001655A:F06	22765
4437	1/28/98	158	RTA00000198AF.k.03.1	M00001655A:F06	22765
4437	1/28/98	354	RTA00000198R.k.03.1	M00001655A:F06	22765
4438	1/28/98	238	RTA00000187AR.k.12.1	M00001679D:F02	78415
4438	2/24/98	407	RTA00000340R.m.07.1	M00001679D:F02	78415
4439	1/28/98	669	RTA00000192AF.c.2.1	M00004121B:G01	0
4440	3/24/98	394	RTA00000527F.g.14.1	M00003845D:B02	37532
4441	1/28/98	608	RTA00000192AF.p.8.1	M00004212B:C07	2379
4441	2/24/98	653	RTA00000352R.m.12.1	M00004212B:C07	2379
4442	1/28/98	608	RTA00000192AF.p.8.1	M00004212B:C07	2379
4442	2/24/98	653	RTA00000352R.m.12.1	M00004212B:C07	2379
4443	1/28/98	730	RTA00000192AF.o.11.1	M00004205D:F06	0
4444	2/24/98	1157	RTA00000422F.m.18.1	M00001647B:E04	23829
4445	2/24/98	1187	RTA00000120A.c.19.1	M00001464A:B03	81016
4446	2/24/98	913	RTA00000120A.c.20.1	M00001464A:B07	43235
4447	1/28/98	589	RTA00000192AF.l.1.1	M00004183C:D07	16392
4448	2/24/98	640	RTA00000405F.f.02.1	M00001669B:G02	38665
4449	1/28/98	27	RTA00000192AF.i.12.1	M00004169C:C12	5319
4450	2/24/98	681	RTA00000120A.c.24.1	M00001464A:D03	34278
4451	2/24/98	265	RTA00000340F.k.16.1	M00001647B:C09	13157
4452	1/28/98	70	RTA00000192AF.e.3.1	M00004138B:H02	13272
4453	3/24/98	171	RTA00000523F.e.10.1	M00003829A:F03	62878
4454	2/24/98	1134	RTA00000418F.m.02.1	M00001650A:A12	74550
4455	1/28/98	618	RTA00000192AF.a.14.1	M00004111D:A08	6874
4456	1/28/98	457	RTA00000191AR.l.7.2	M00004081C:D12	14391
4457	2/24/98	596	RTA00000351R.i.03.1	M00003846B:D06	6874
4458	3/24/98	460	RTA00000523F.f.16.1	M00003840B:E07	26522
4459	3/24/98	400	RTA00000523F.f.17.1	M00003840B:E08	63984
4460	2/24/98	1129	RTA00000401F.m.07.1	M00003907D:F11	2893
4461	2/24/98	132	RTA00000418F.m.05.1	M00001650B:C10	73600
4462	1/28/98	482	RTA00000187AF.j.7.1	M00001679C:F01	78091
4463	2/24/98	1107	RTA00000419F.l.22.1	M00003903D:C06	78444
4464	2/24/98	609	RTA00000404F.o.10.2	M00001651B:B12	16785
4465	1/28/98	376	RTA00000177AF.m.18.3	M00001355B:G11	0
4465	1/28/98	375	RTA00000177AF.m.18.1	M00001355B:G11	0
4466	2/24/98	186	RTA00000132A.k.6.1	M00001464A:E07	81284
4467	1/28/98	18	RTA00000196AF.c.17.1	M00001352C:F06	39602
4468	3/24/98	282	RTA00000427F.h.22.1	M00004108C:E01	64547
4469	2/24/98	859	RTA00000419F.m.22.1	M00003914A:G09	75600
4470	3/24/98	33	RTA00000524F.b.21.1	M00005216C:B09	0
4471	3/24/98	170	RTA00000523F.d.12.1	M00003822B:D08	64888
4472	3/24/98	117	RTA00000523F.d.18.1	M00003822B:G01	64072
4473	2/24/98	739	RTA00000423F.h.20.1	M00003914A:G06	38639
4474	2/24/98	527	RTA00000419F.m.21.1	M00003914A:E04	77947
4475	2/24/98	237	RTA00000119A.j.22.1	M00001460A:F07	80336
4476	2/24/98	349	RTA00000404F.m.10.2	M00001641D:E02	779
4477	2/24/98	462	RTA00000119A.j.23.1	M00001460A:G07	79835
4478	2/24/98	1263	RTA00000341F.i.22.1	M00003911A:F10	7825

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4479	3/24/98	47	RTA00000523F.e.18.1	M00003829D:A11	62898
4480	1/28/98	152	RTA00000196AF.c.20.1	M00001352C:H02	8934
4481	3/24/98	13	RTA00000528F.m.16.1	M00003845D:C03	4468
4482	1/28/98	14	RTA00000196R.c.11.2	M00001352A:E12	13658
4483	2/24/98	641	RTA00000410F.j.20.1	M00001642D:G10	73601
4484	1/28/98	141	RTA00000196AF.c.6.1	M00001350A:D06	23148
4485	1/28/98	25	RTA00000196AF.c.1.1	M00001349C:C05	8171
4486	2/24/98	436	RTA00000119A.m.15.1	M00001461A:E05	80989
4487	1/28/98	9	RTA00000177AF.g.22.1	M00001347C:G08	7031
4488	2/24/98	162	RTA00000406F.l.08.1	M00003908D:D12	39016
4489	2/24/98	1056	RTA00000419F.m.18.1	M00003908C:G09	76014
4490	1/28/98	73	RTA00000177AF.e.21.3	M00001344A:H07	4306
4491	3/24/98	326	RTA00000527F.e.09.1	M00003826B:E11	37521
4492	2/24/98	900	RTA00000419F.m.13.1	M00003908A:F12	79052
4493	2/24/98	441	RTA00000404F.m.20.2	M00001647A:H08	39144
4494	2/24/98	1217	RTA00000410F.j.17.1	M00001642D:F02	72912
4495	3/24/98	309	RTA00000523F.j.10.1	M00003860B:G09	63384
4496	2/24/98	385	RTA00000418F.m.14.1	M00001651B:E06	75711
4497	2/24/98	1121	RTA00000120A.m.10.3	M00001467A:B03	81376
4498	1/28/98	617	RTA00000179AF.d.13.3	M00001394A:F01	6583
4499	2/24/98	1242	RTA00000405F.d.10.1	M00001661C:F11	39000
4500	3/24/98	19	RTA00000527F.j.02.2	M00003856A:B07	4896
4501	2/24/98	645	RTA00000422F.p.12.2	M00001661C:F10	9840
4502	3/24/98	142	RTA00000523F.i.18.1	M00003856B:C04	64463
4503	2/24/98	376	RTA00000400F.k.22.1	M00001656A:B07	2512
4504	1/28/98	532	RTA00000177AF.o.4.1	M00001358C:C06	0
4505	2/24/98	1128	RTA00000423F.a.02.3	M00001656B:A08	39210
4506	2/24/98	1143	RTA00000423F.a.03.1	M00001656B:D05	26796
4507	2/24/98	408	RTA00000405F.d.14.1	M00001662A:C12	35209
4508	3/24/98	360	RTA00000523F.j.03.1	M00003860A:A08	64535
4509	1/28/98	409	RTA00000180AF.d.1.3	M00001418D:B06	8526
4510	2/24/98	784	RTA00000418F.o.14.1	M00001661B:B05	33524
4511	3/24/98	120	RTA00000426F.h.09.1	M00003905B:G03	78797
4512	1/28/98	706	RTA00000177AF.i.6.4	M00001350A:B08	0
4513	3/24/98	4	RTA00000426F.h.11.1	M00003905B:H05	75479
4514	2/24/98	697	RTA00000412F.d.14.1	M00003905D:C08	76757
4515	2/24/98	908	RTA00000423F.g.03.1	M00003905C:G11	38007
4516	3/24/98	342	RTA00000427F.e.12.1	M00003959C:G06	62813
4517	2/24/98	97	RTA00000403F.e.01.1	M00001473A:C11	38965
4518	2/24/98	555	RTA00000133A.d.22.1	M00001469A:G11	11797
4519	2/24/98	454	RTA00000418F.n.19.1	M00001659C:F02	28761
4520	2/24/98	562	RTA00000401F.j.17.1	M00003901B:C05	5483
4521	2/24/98	1215	RTA00000422F.o.08.2	M00001659D:D03	26832
4522	2/24/98	635	RTA00000418F.o.17.1	M00001661B:F03	79069
4523	3/24/98	190	RTA00000523F.h.12.1	M00003851C:D07	65745
4524	1/28/98	267	RTA00000186AF.g.11.2	M00001630B:H09	5214
4525	2/24/98	238	RTA00000340F.j.12.1	M00001624A:B06	3277
4526	2/24/98	331	RTA00000404F.o.18.2	M00001651C:C05	39110
4527	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
4527	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4528	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
4528	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
4529	1/28/98	147	RTA00000185AF.c.24.2	M00001578B:E04	23001
4530	2/24/98	164	RTA00000345F.k.06.1	M00001475A:A12	0
4531	2/24/98	611	RTA00000404F.p.02.2	M00001652D:A06	39097
4532	2/24/98	274	RTA00000405F.e.08.1	M00001663C:F10	37916
4533	2/24/98	755	RTA00000423F.d.17.1	M00001663A:C11	20630
4534	2/24/98	126	RTA00000422F.j.20.1	M00001653A:G07	22388
4535	3/24/98	195	RTA00000523F.i.08.1	M00003855A:C12	65099
4536	3/24/98	83	RTA00000527F.i.05.2	M00003851C:B06	37481
4537	1/28/98	375	RTA00000177AF.m.18.1	M00001355B:G11	0
4537	1/28/98	376	RTA00000177AF.m.18.3	M00001355B:G11	0
4538	2/24/98	763	RTA00000135A.m.18.1	M00001545A:C03	19255
4539	2/24/98	362	RTA00000418F.m.16.1	M00001653B:E06	74986
4540	2/24/98	287	RTA00000410F.n.09.1	M00001662C:A04	11736
4541	3/24/98	416	RTA00000527F.i.12.2	M00003852B:D11	0
4542	2/24/98	662	RTA00000339F.o.07.1	M00001473D:G01	2566
4543	2/24/98	949	RTA00000340R.j.07.1	M00001654C:D05	38954
4544	3/24/98	146	RTA00000527F.i.17.2	M00003853B:C08	37539
4545	2/24/98	939	RTA00000405F.a.03.1	M00001654C:E04	39065
4546	3/24/98	42	RTA00000527F.i.19.2	M00003853C:C06	38089
4547	3/24/98	381	RTA00000426F.f.18.1	M00003854C:C02	63271
4548	2/24/98	656	RTA00000403F.e.08.1	M00001473D:B11	19126
4549	3/24/98	37	RTA00000426F.f.20.1	M00003854C:F01	65134
4550	2/24/98	733	RTA00000405F.d.18.1	M00001662C:B02	10494
4551	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
4551	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
4552	3/24/98	198	RTA00000523F.o.05.1	M00005175B:H04	0
4553	3/24/98	302	RTA00000427F.p.04.2	M00005100B:H07	0
4554	3/24/98	203	RTA00000427F.p.10.2	M00005102C:F09	0
4555	1/28/98	331	RTA00000197AR.c.20.1	M00001449D:A06	16282
4556	3/24/98	6	RTA00000523F.l.10.1	M00005134B:E01	0
4557	1/28/98	174	RTA00000181AF.e.22.3	M00001448D:F09	3442
4558	3/24/98	79	RTA00000523F.l.15.1	M00005134C:E11	0
4559	3/24/98	386	RTA00000523F.l.16.1	M00005134C:G04	0
4560	3/24/98	76	RTA00000523F.l.18.1	M00005134D:A06	0
4561	3/24/98	192	RTA00000523F.m.02.1	M00005134D:H03	0
4562	3/24/98	290	RTA00000427F.l.03.1	M00005136D:B07	0
4563	3/24/98	269	RTA00000427F.p.02.2	M00005100B:D02	0
4564	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
4564	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
4565	3/24/98	334	RTA00000427F.n.11.1	M00004960B:A09	0
4566	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
4566	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
4567	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
4567	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
4568	3/24/98	328	RTA00000523F.n.01.1	M00005137A:E01	0
4569	1/28/98	356	RTA00000180AF.l.12.2	M00001433B:H11	0
4570	3/24/98	68	RTA00000523F.n.04.1	M00005138B:D12	0
4571	3/24/98	127	RTA00000523F.n.10.1	M00005140D:G09	0

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4572	1/28/98	187	RTA00000180AR.j.04.4	M00001429C:G12	22300
4573	3/24/98	112	RTA00000523F.n.12.1	M00005173C:A02	0
4574	3/24/98	305	RTA00000523F.n.16.1	M00005173D:H02	0
4575	3/24/98	164	RTA00000523F.n.17.1	M00005174D:B02	0
4576	3/24/98	107	RTA00000523F.n.20.1	M00005174D:H02	0
4577	2/24/98	898	RTA00000418F.l.03.1	M00001641C:C06	79058
4578	3/24/98	288	RTA00000427F.l.04.1	M00005136D:C01	0
4579	3/24/98	462	RTA00000427F.p.13.2	M00004695B:E04	0
4580	1/28/98	137	RTA00000181AF.m.4.3	M00001455A:E09	13238
4581	1/28/98	20	RTA00000181AF.l.14.2	M00001454D:D06	2364
4582	3/24/98	105	RTA00000526F.d.01.1	M00004104B:A02	4468
4583	3/24/98	261	RTA00000427F.i.22.1	M00004104D:B05	63199
4584	3/24/98	81	RTA00000427F.j.07.1	M00004105A:B10	64819
4585	3/24/98	287	RTA00000525F.d.19.1	M00004114B:D09	36860
4586	1/28/98	311	RTA00000191AR.j.4.2	M00004071D:A10	5198
4587	3/24/98	337	RTA00000525F.e.08.1	M00004115C:H04	24193
4588	3/24/98	206	RTA00000525F.f.07.1	M00004119A:A06	37500
4589	3/24/98	461	RTA00000427F.f.15.1	M00004119D:A07	66734
4590	3/24/98	410	RTA00000427F.f.16.1	M00004119D:H06	64122
4591	3/24/98	307	RTA00000427F.p.03.2	M00005100B:G11	0
4592	3/24/98	180	RTA00000523F.k.02.1	M00004687A:C03	0
4593	1/28/98	115	RTA00000179AR.o.20.3	M00001409D:F11	2409
4594	3/24/98	315	RTA00000427F.n.19.1	M00004891D:E07	0
4595	3/24/98	375	RTA00000427F.p.19.2	M00004895C:G05	0
4596	3/24/98	470	RTA00000427F.p.24.2	M00004897D:F03	0
4597	1/28/98	155	RTA00000197F.e.8.1	M00001454A:C11	3135
4598	1/28/98	286	RTA00000181AR.k.2.3	M00001453C:A11	0
4598	1/28/98	389	RTA00000181AR.k.2.2	M00001453C:A11	0
4599	1/28/98	286	RTA00000181AR.k.2.3	M00001453C:A11	0
4599	1/28/98	389	RTA00000181AR.k.2.2	M00001453C:A11	0
4600	1/28/98	285	RTA00000181AR.j.14.3	M00001453B:E10	5399
4601	3/24/98	317	RTA00000428F.a.01.1	M00004897D:G05	0
4602	3/24/98	85	RTA00000427F.m.21.1	M00004900C:E11	0
4603	3/24/98	121	RTA00000427F.n.02.1	M00004900D:B10	0
4604	3/24/98	78	RTA00000427F.o.05.1	M00004958B:D01	0
4605	3/24/98	437	RTA00000427F.n.10.1	M00004960B:A08	0
4606	3/24/98	388	RTA00000526F.d.17.1	M00004235A:A12	2757
4607	1/28/98	299	RTA00000196AF.f.5.1	M00001366D:G02	11937
4608	1/28/98	369	RTA00000196F.m.3.1	M00001413A:F02	10453
4609	3/24/98	319	RTA00000523F.p.15.1	M00005178B:H01	0
4610	1/28/98	374	RTA00000178AF.l.11.1	M00001383A:G04	23286
4611	2/24/98	1090	RTA00000405F.g.22.1	M00001673C:A02	527
4612	1/28/98	127	RTA00000178AF.k.18.1	M00001382A:F04	9755
4613	1/28/98	104	RTA00000196R.h.03.1	M00001381A:D02	6636
4614	2/24/98	642	RTA00000341F.h.19.1	M00003916C:C05	0
4615	2/24/98	655	RTA00000351R.p.14.1	M00003915C:H04	13166
4616	1/28/98	145	RTA00000178AF.h.24.1	M00001376B:C06	6745
4617	2/24/98	224	RTA00000341F.g.21.1	M00003914C:F09	8823
4618	2/24/98	301	RTA00000401F.m.23.1	M00003914C:C02	2801
4619	2/24/98	133	RTA00000404F.l.20.1	M00001639B:H05	38638

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4619	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
4620	2/24/98	542	RTA00000410F.i.19.1	M00001641B:C10	78988
4621	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
4621	2/24/98	133	RTA00000404F.l.20.1	M00001639B:H05	38638
4622	2/24/98	600	RTA00000406F.m.04.1	M00003914B:A11	14959
4623	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
4623	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
4624	1/28/98	33	RTA00000178AR.a.20.1	M00001362C:H11	945
4624	2/24/98	979	RTA00000345F.b.17.1	M00001362C:H11	945
4625	3/24/98	73	RTA00000524F.b.12.1	M00005213C:G01	0
4626	1/28/98	373	RTA00000196F.e.12.1	M00001361C:H11	10147
4627	2/24/98	1233	RTA00000418F.l.02.1	M00001641C:C05	39316
4628	3/24/98	184	RTA00000524F.b.18.1	M00005214B:D11	0
4629	3/24/98	353	RTA00000428F.a.18.1	M00005214C:A09	0
4630	1/28/98	89	RTA00000177AF.n.8.3	M00001356D:F06	4188
4630	1/28/98	15	RTA00000177AR.n.8.1	M00001356D:F06	4188
4631	1/28/98	89	RTA00000177AF.n.8.3	M00001356D:F06	4188
4631	1/28/98	15	RTA00000177AR.n.8.1	M00001356D:F06	4188
4632	1/28/98	375	RTA00000177AF.m.18.1	M00001355B:G11	0
4632	1/28/98	376	RTA00000177AF.m.18.3	M00001355B:G11	0
4633	1/28/98	375	RTA00000177AF.m.18.1	M00001355B:G11	0
4633	1/28/98	376	RTA00000177AF.m.18.3	M00001355B:G11	0
4634	2/24/98	682	RTA00000410F.i.17.1	M00001641B:B01	78147
4635	1/28/98	367	RTA00000196F.i.24.1	M00001392C:D10	4233
4636	1/28/98	264	RTA00000179AF.k.3.3	M00001401A:H07	0
4637	1/28/98	333	RTA00000196F.k.15.1	M00001400A:F06	8320
4638	1/28/98	38	RTA00000196R.k.07.1	M00001399C:D09	22443
4638	1/28/98	289	RTA00000196F.k.07.1	M00001399C:D09	22443
4639	1/28/98	38	RTA00000196R.k.07.1	M00001399C:D09	22443
4639	1/28/98	289	RTA00000196F.k.07.1	M00001399C:D09	22443
4640	1/28/98	289	RTA00000196F.k.07.1	M00001399C:D09	22443
4640	1/28/98	38	RTA00000196R.k.07.1	M00001399C:D09	22443
4641	1/28/98	38	RTA00000196R.k.07.1	M00001399C:D09	22443
4641	1/28/98	289	RTA00000196F.k.07.1	M00001399C:D09	22443
4642	3/24/98	324	RTA00000523F.o.09.1	M00005176A:C12	0
4643	3/24/98	122	RTA00000523F.o.12.1	M00005177A:B06	0
4644	1/28/98	167	RTA00000179AF.d.22.3	M00001394C:C11	7955
4645	1/28/98	351	RTA00000179AF.c.22.1	M00001393B:B09	22515
4645	1/28/98	459	RTA00000179AF.c.22.3	M00001393B:B09	22515
4646	1/28/98	351	RTA00000179AF.c.22.1	M00001393B:B09	22515
4646	1/28/98	459	RTA00000179AF.c.22.3	M00001393B:B09	22515
4647	3/24/98	361	RTA00000523F.p.08.1	M00005178A:A07	0
4648	1/28/98	43	RTA00000179AF.c.14.3	M00001392D:H04	0
4649	3/24/98	268	RTA00000427F.k.19.1	M00004103B:B07	62851
4650	3/24/98	473	RTA00000523F.o.21.1	M00005177C:A01	0
4651	1/28/98	60	RTA00000196AR.i.12.3	M00001389D:G11	38800
4651	1/28/98	128	RTA00000196F.i.12.1	M00001389D:G11	38800
4652	1/28/98	128	RTA00000196F.i.12.1	M00001389D:G11	38800
4652	1/28/98	60	RTA00000196AR.i.12.3	M00001389D:G11	38800
4653	1/28/98	60	RTA00000196AR.i.12.3	M00001389D:G11	38800

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4653	1/28/98	128	RTA00000196F.i.12.1	M00001389D:G11	38800
4654	1/28/98	60	RTA00000196AR.i.12.3	M00001389D:G11	38800
4654	1/28/98	128	RTA00000196F.i.12.1	M00001389D:G11	38800
4655	1/28/98	28	RTA00000178AR.o.01.5	M00001387B:H07	0
4656	1/28/98	279	RTA00000196AF.h.24.1	M00001386A:D11	7308
4657	1/28/98	130	RTA00000196AF.h.23.1	M00001386A:C02	13357
4658	1/28/98	254	RTA00000178AF.n.2.1	M00001385C:H11	17083
4659	1/28/98	74	RTA00000196AF.h.20.1	M00001385B:F10	0
4660	1/28/98	377	RTA00000178AF.m.19.1	M00001384D:H07	0
4660	1/28/98	120	RTA00000178AR.m.19.5	M00001384D:H07	0
4661	1/28/98	377	RTA00000178AF.m.19.1	M00001384D:H07	0
4661	1/28/98	120	RTA00000178AR.m.19.5	M00001384D:H07	0
4662	3/24/98	228	RTA00000523F.o.14.1	M00005177A:H09	0
4663	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4663	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4663	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4664	1/28/98	511	RTA00000196AF.g.10.1	M00001376B:A02	12498
4665	1/28/98	620	RTA00000201R.g.08.1	M00004692A:E07	0
4665	1/28/98	619	RTA00000201F.g.08.1	M00004692A:E07	0
4665	1/28/98	621	RTA00000201R.g.08.2	M00004692A:E07	0
4666	3/24/98	194	RTA00000522F.j.12.2	M00001651C:A04	74341
4667	2/24/98	79	RTA00000419F.g.08.1	M00003842C:D11	66700
4668	1/28/98	619	RTA00000201F.g.08.1	M00004692A:E07	0
4668	1/28/98	620	RTA00000201R.g.08.1	M00004692A:E07	0
4668	1/28/98	621	RTA00000201R.g.08.2	M00004692A:E07	0
4669	1/28/98	529	RTA00000178AF.b.13.1	M00001364A:E11	3114
4670	2/24/98	111	RTA00000128A.i.20.1	M00001560A:F03	9900
4671	3/24/98	379	RTA00000522F.k.02.2	M00001652C:B09	77622
4672	3/24/98	135	RTA00000522F.k.10.2	M00001652D:B09	77619
4673	2/24/98	1197	RTA00000128A.j.10.1	M00001560A:H06	80085
4674	2/24/98	140	RTA00000128A.j.6.2	M00001560A:H10	5316
4675	3/24/98	247	RTA00000425F.j.21.1	M00001633B:B11	77373
4676	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4676	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4676	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4677	2/24/98	729	RTA00000403F.m.20.1	M00001576A:F11	707
4677	2/24/98	437	RTA00000403F.m.20.2	M00001576A:F11	707
4678	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4678	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4678	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4679	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4679	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4679	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4680	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4680	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4680	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4681	1/28/98	533	RTA00000177AR.m.13.4	M00001355A:C12	4175
4681	1/28/98	538	RTA00000177AR.m.13.3	M00001355A:C12	4175
4681	1/28/98	567	RTA00000177AR.m.13.1	M00001355A:C12	4175
4682	1/28/98	620	RTA00000201R.g.08.1	M00004692A:E07	0

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4682	1/28/98	621	RTA00000201R.g.08.2	M00004692A:E07	0
4682	1/28/98	619	RTA00000201F.g.08.1	M00004692A:E07	0
4683	2/24/98	845	RTA00000348R.b.04.1	M00001342B:E01	1890
4684	2/24/98	1088	RTA00000339R.b.02.1	M00001344B:F12	0
4684	2/24/98	1149	RTA00000339F.b.02.1	M00001344B:F12	0
4685	2/24/98	618	RTA00000423F.l.04.1	M00004039B:G08	14320
4686	2/24/98	1235	RTA00000411F.j.04.1	M00003841C:F03	66219
4687	2/24/98	415	RTA00000340R.f.05.1	M00001569B:G11	3202
4688	2/24/98	1088	RTA00000339R.b.02.1	M00001344B:F12	0
4688	2/24/98	1149	RTA00000339F.b.02.1	M00001344B:F12	0
4689	2/24/98	1067	RTA00000411F.j.11.1	M00003841D:F06	66154
4690	1/28/98	429	RTA00000196F.i.19.1	M00001390C:C11	39498
4690	2/24/98	925	RTA00000353R.h.10.1	M00001390C:C11	39498
4691	1/28/98	508	RTA00000187AF.i.14.2	M00001679B:H07	19406
4691	2/24/98	928	RTA00000340F.m.04.1	M00001679B:H07	19406
4692	2/24/98	10	RTA00000350R.c.12.1	M00001550D:A04	9728
4693	1/28/98	553	RTA00000201F.b.22.1	M00004344B:H04	35728
4694	1/28/98	459	RTA00000179AF.c.22.3	M00001393B:B09	22515
4694	1/28/98	351	RTA00000179AF.c.22.1	M00001393B:B09	22515
4695	1/28/98	351	RTA00000179AF.c.22.1	M00001393B:B09	22515
4695	1/28/98	459	RTA00000179AF.c.22.3	M00001393B:B09	22515
4696	2/24/98	235	RTA00000126A.o.23.1	M00001551A:B10	6268
4697	2/24/98	942	RTA00000126A.n.6.2	M00001551A:D04	79917
4698	2/24/98	228	RTA00000411F.k.19.1	M00003852D:E08	64200
4699	1/28/98	638	RTA00000193AF.l.05.2	M00004348A:A02	2815
4700	3/24/98	431	RTA00000425F.l.09.1	M00001638A:B04	75251
4701	1/28/98	540	RTA00000179AF.b.10.3	M00001391D:D10	0
4702	2/24/98	390	RTA00000355R.a.14.1	M00004187D:G09	10207
4703	1/28/98	429	RTA00000196F.i.19.1	M00001390C:C11	39498
4703	2/24/98	925	RTA00000353R.h.10.1	M00001390C:C11	39498
4704	2/24/98	930	RTA00000127A.h.22.2	M00001554A:E04	13155
4705	2/24/98	1193	RTA00000411F.k.14.1	M00003851A:C10	63987
4706	1/28/98	694	RTA00000201R.c.19.1	M00004370A:G05	22357
4707	3/24/98	80	RTA00000425F.p.12.1	M00001638C:G01	73219
4708	3/24/98	344	RTA00000425F.p.15.1	M00001638C:H07	31680
4709	1/28/98	743	RTA00000178AF.k.9.1	M00001381B:F06	16342
4710	2/24/98	202	RTA00000419F.g.22.1	M00003845D:A09	64515
4711	1/28/98	749	RTA00000178AR.i.13.4	M00001377B:H01	0
4712	3/24/98	217	RTA00000425F.j.16.1	M00001639D:F02	75631
4713	3/24/98	448	RTA00000425F.j.18.1	M00001639D:G12	75561
4714	1/28/98	385	RTA00000201F.c.24.1	M00004374D:E10	35731
4715	2/24/98	904	RTA00000127A.e.6.1	M00001553A:E07	5885
4716	2/24/98	620	RTA00000420F.a.07.1	M00004072C:F08	63405
4717	1/28/98	396	RTA00000179AR.b.02.3	M00001391B:G12	0
4718	2/24/98	463	RTA00000403F.o.22.1	M00001583A:D01	25076
4718	2/24/98	1084	RTA00000403F.o.22.2	M00001583A:D01	25076
4719	2/24/98	1225	RTA00000346F.j.13.1	M00003841C:E04	5337
4720	2/24/98	1221	RTA00000403F.o.17.1	M00001582D:A02	23085
4721	2/24/98	878	RTA00000413F.c.12.1	M00004083B:G03	65334
4722	2/24/98	764	RTA00000413F.c.17.1	M00004085B:B05	36831

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4723	2/24/98	398	RTA00000407F.b.04.1	M00004086D:B09	63221
4724	2/24/98	1179	RTA00000341F.o.12.1	M00004144A:F04	2883
4725	2/24/98	7	RTA00000413F.d.12.1	M00004088C:A12	66467
4726	2/24/98	881	RTA00000413F.d.15.1	M00004088C:E04	64943
4727	2/24/98	463	RTA00000403F.o.22.1	M00001583A:D01	25076
4727	2/24/98	1084	RTA00000403F.o.22.2	M00001583A:D01	25076
4728	2/24/98	1084	RTA00000403F.o.22.2	M00001583A:D01	25076
4728	2/24/98	463	RTA00000403F.o.22.1	M00001583A:D01	25076
4729	1/28/98	506	RTA00000198R.o.09.1	M00003751B:A05	4310
4729	1/28/98	497	RTA00000198AF.o.09.1	M00003751B:A05	4310
4730	2/24/98	1015	RTA00000129A.b.6.2	M00001582A:H01	39111
4731	2/24/98	866	RTA00000407F.b.08.1	M00004088D:B03	37513
4732	2/24/98	943	RTA00000413F.c.03.1	M00004081D:H09	64527
4733	2/24/98	463	RTA00000403F.o.22.1	M00001583A:D01	25076
4733	2/24/98	1084	RTA00000403F.o.22.2	M00001583A:D01	25076
4734	1/28/98	490	RTA00000198AF.n.05.1	M00001687A:G01	24157
4735	2/24/98	798	RTA00000420F.c.04.1	M00004089A:B08	65007
4736	2/24/98	850	RTA00000420F.c.07.1	M00004089A:E02	65555
4737	2/24/98	199	RTA00000403F.m.13.2	M00001575D:A10	39077
4738	1/28/98	424	RTA00000187AR.j.24.1	M00001679D:B05	78356
4738	1/28/98	418	RTA00000187AR.k.01.1	M00001679D:B05	78356
4739	1/28/98	424	RTA00000187AR.j.24.1	M00001679D:B05	78356
4739	1/28/98	418	RTA00000187AR.k.01.1	M00001679D:B05	78356
4740	1/28/98	418	RTA00000187AR.k.01.1	M00001679D:B05	78356
4740	1/28/98	424	RTA00000187AR.j.24.1	M00001679D:B05	78356
4741	1/28/98	424	RTA00000187AR.j.24.1	M00001679D:B05	78356
4741	1/28/98	418	RTA00000187AR.k.01.1	M00001679D:B05	78356
4742	1/28/98	482	RTA00000187AF.j.7.1	M00001679C:F01	78091
4743	1/28/98	693	RTA00000198F.m.12.1	M00001679C:D05	4
4744	3/24/98	23	RTA00000522F.p.07.1	M00001670A:C11	76888
4745	1/28/98	497	RTA00000198AF.o.09.1	M00003751B:A05	4310
4745	1/28/98	506	RTA00000198R.o.09.1	M00003751B:A05	4310
4746	1/28/98	642	RTA00000189AF.i.14.1	M00003868B:G11	0
4747	2/24/98	1119	RTA00000126A.k.24.1	M00001550A:F07	39428
4748	2/24/98	654	RTA00000421F.a.05.1	M00001570C:G06	5278
4749	2/24/98	1146	RTA00000347F.h.02.1	M00004072D:H12	562
4750	2/24/98	137	RTA00000339R.a.06.1	M00001346A:E04	58694
4751	2/24/98	729	RTA00000403F.m.20.1	M00001576A:F11	707
4751	2/24/98	437	RTA00000403F.m.20.2	M00001576A:F11	707
4752	2/24/98	627	RTA00000408F.p.21.1	M00001579A:C03	77930
4753	2/24/98	735	RTA00000420F.a.11.1	M00004073C:D04	66460
4754	2/24/98	525	RTA00000348R.d.24.1	M00001349B:G05	5774
4755	2/24/98	624	RTA00000420F.a.16.1	M00004075D:C10	63345
4756	2/24/98	437	RTA00000403F.m.20.2	M00001576A:F11	707
4756	2/24/98	729	RTA00000403F.m.20.1	M00001576A:F11	707
4757	2/24/98	437	RTA00000403F.m.20.2	M00001576A:F11	707
4757	2/24/98	729	RTA00000403F.m.20.1	M00001576A:F11	707
4758	1/28/98	499	RTA00000199F.b.22.2	M00003791C:E09	17018
4759	2/24/98	843	RTA00000418F.g.03.1	M00001579C:E06	78737
4760	2/24/98	956	RTA00000423F.l.06.1	M00004062A:H06	38136

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4761	2/24/98	826	RTA00000422F.e.07.1	M00001579C:G05	38964
4761	2/24/98	832	RTA00000403F.o.10.2	M00001579C:G05	38964
4762	2/24/98	826	RTA00000422F.e.07.1	M00001579C:G05	38964
4762	2/24/98	832	RTA00000403F.o.10.2	M00001579C:G05	38964
4763	2/24/98	826	RTA00000422F.e.07.1	M00001579C:G05	38964
4763	2/24/98	832	RTA00000403F.o.10.2	M00001579C:G05	38964
4764	2/24/98	826	RTA00000422F.e.07.1	M00001579C:G05	38964
4764	2/24/98	832	RTA00000403F.o.10.2	M00001579C:G05	38964
4765	2/24/98	1159	RTA00000413F.b.18.1	M00004078C:F04	39873
4766	2/24/98	1122	RTA00000419F.f.16.1	M00003839D:E02	64679
4767	2/24/98	1053	RTA00000413F.b.24.1	M00004080A:F01	65117
4768	2/24/98	1052	RTA00000420F.b.02.1	M00004081A:A08	64013
4769	2/24/98	157	RTA00000339F.a.23.1	M00001361B:C07	4022
4770	1/28/98	452	RTA00000199F.d.19.2	M00003813D:H12	6707
4771	2/24/98	480	RTA00000411F.i.15.1	M00003837C:G08	31612
4772	2/24/98	125	RTA00000403F.m.18.1	M00001576A:B09	39185
4773	2/24/98	548	RTA00000413F.b.12.1	M00004077B:H11	64932
4774	2/24/98	814	RTA00000408F.l.24.1	M00001530B:G09	34263
4775	1/28/98	688	RTA00000193AF.g.3.1	M00004050D:A06	5567
4776	1/28/98	451	RTA00000200AF.b.20.1	M00004043A:D02	40403
4777	1/28/98	456	RTA00000200AF.b.12.1	M00004040B:F10	22053
4778	2/24/98	849	RTA00000122A.n.16.1	M00001517A:G08	80553
4779	1/28/98	12	RTA00000183AF.i.15.2	M00001529B:C04	2642
4779	2/24/98	379	RTA00000349R.j.07.1	M00001529B:C04	2642
4780	1/28/98	12	RTA00000183AF.i.15.2	M00001529B:C04	2642
4780	2/24/98	379	RTA00000349R.j.07.1	M00001529B:C04	2642
4781	1/28/98	512	RTA00000191AF.c.3.1	M00003987D:D06	3549
4782	2/24/98	431	RTA00000399F.j.15.1	M00001578C:G06	1261
4783	1/28/98	586	RTA00000199R.o.11.1	M00003976C:A10	23172
4784	1/28/98	496	RTA00000190AF.p.3.1	M00003975B:F03	2378
4785	2/24/98	340	RTA00000408F.l.13.1	M00001530A:B12	4423
4786	1/28/98	617	RTA00000179AF.d.13.3	M00001394A:F01	6583
4787	2/24/98	779	RTA00000408F.l.16.1	M00001530A:F12	73468
4788	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
4788	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
4789	1/28/98	464	RTA00000199AF.l.14.1	M00003917A:D02	22865
4790	2/24/98	668	RTA00000408F.m.05.2	M00001530C:G10	23384
4791	2/24/98	1066	RTA00000123A.f.2.1	M00001531A:H03	80379
4792	2/24/98	213	RTA00000123A.f.3.1	M00001531A:H07	44017
4793	2/24/98	43	RTA00000420F.g.04.1	M00004891B:B12	0
4794	2/24/98	302	RTA00000356R.f.18.1	M00004692A:H10	0
4795	2/24/98	308	RTA00000353R.d.11.1	M00004692A:H08	0
4796	2/24/98	975	RTA00000411F.n.02.1	M00003870B:F04	78049
4797	1/28/98	722	RTA00000199R.j.24.1	M00003895C:A10	0
4798	2/24/98	643	RTA00000420F.l.14.2	M00005230D:F06	0
4799	1/28/98	480	RTA00000181AF.o.08.2	M00001457C:H12	849
4800	1/28/98	518	RTA00000199AF.n.22.1	M00003971A:A06	23064
4801	1/28/98	618	RTA00000192AF.a.14.1	M00004111D:A08	6874
4802	2/24/98	937	RTA00000121A.n.15.1	M00001511A:G08	40849
4803	2/24/98	821	RTA00000420F.h.16.1	M00004927A:E06	0

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4804	2/24/98	658	RTA00000121A.n.2.1	M00001511A:A05	33585
4805	2/24/98	551	RTA00000340F.b.05.1	M00001513A:G07	0
4806	2/24/98	172	RTA00000420F.i.17.1	M00005101C:B09	0
4807	2/24/98	1224	RTA00000122A.h.24.1	M00001514A:A12	48
4808	1/28/98	631	RTA00000200AF.h.19.2	M00004151D:E03	0
4809	2/24/98	80	RTA00000122A.g.16.1	M00001514A:B04	81366
4810	2/24/98	809	RTA00000420F.i.23.1	M00005134A:D11	0
4811	2/24/98	650	RTA00000122A.g.17.1	M00001514A:B08	32655
4812	2/24/98	73	RTA00000413F.p.15.2	M00005136D:D06	0
4813	1/28/98	425	RTA00000200AF.c.16.1	M00004064D:A11	23433
4814	2/24/98	60	RTA00000413F.p.17.2	M00005136D:G06	0
4815	1/28/98	387	RTA00000191AF.j.14.1	M00004073A:H12	1002
4815	2/24/98	632	RTA00000191AF.j.14.1	M00004073A:H12	1002
4816	2/24/98	837	RTA00000420F.h.01.1	M00004897C:D06	0
4817	2/24/98	123	RTA00000122A.j.18.1	M00001516A:D05	81317
4818	2/24/98	77	RTA00000420F.j.22.1	M00005173B:F01	0
4819	1/28/98	734	RTA00000200AF.d.21.1	M00004087C:D03	0
4820	1/28/98	733	RTA00000200AF.d.20.1	M00004087A:G08	26600
4821	2/24/98	1003	RTA00000420F.k.08.2	M00005176C:C09	0
4822	1/28/98	442	RTA00000191AF.l.9.1	M00004081C:H06	0
4823	1/28/98	457	RTA00000191AR.l.7.2	M00004081C:D12	14391
4824	2/24/98	552	RTA00000411F.n.12.1	M00003875A:C04	73308
4825	2/24/98	782	RTA00000419F.k.03.1	M00003871C:B05	40822
4826	2/24/98	839	RTA00000414F.b.01.1	M00005212B:A02	0
4827	1/28/98	674	RTA00000197AR.e.24.1	M00001456B:F10	39250
4827	1/28/98	3	RTA00000197AF.e.24.1	M00001456B:F10	39250
4828	1/28/98	669	RTA00000192AF.c.2.1	M00004121B:G01	0
4829	1/28/98	718	RTA00000196F.l.14.2	M00001408B:G06	23144
4830	2/24/98	1259	RTA00000420F.l.19.2	M00005231A:H04	0
4831	1/28/98	717	RTA00000200F.o.10.2	M00004269B:C08	36432
4832	2/24/98	107	RTA00000125A.g.16.1	M00001544A:C09	21497
4833	1/28/98	697	RTA00000193AF.e.21.1	M00004271B:B06	0
4834	2/24/98	829	RTA00000411F.m.11.1	M00003867A:D12	73196
4835	1/28/98	409	RTA00000180AF.d.1.3	M00001418D:B06	8526
4836	3/24/98	426	RTA00000424F.k.21.1	M00001614A:A04	73197
4837	2/24/98	874	RTA00000346F.o.22.1	M00004300C:H09	7381
4838	3/24/98	136	RTA00000424F.m.22.1	M00001614C:E11	72943
4839	2/24/98	636	RTA00000418F.e.21.1	M00001577B:A03	74773
4840	2/24/98	1202	RTA00000347F.h.10.1	M00004206A:E02	22779
4841	2/24/98	1030	RTA00000125A.c.17.1	M00001542A:E04	80619
4842	2/24/98	753	RTA00000345F.o.13.1	M00001546B:F12	11500
4843	2/24/98	221	RTA00000414F.f.13.1	M00005259D:H08	0
4844	2/24/98	193	RTA00000347F.b.10.1	M00001546C:C07	8044
4845	2/24/98	1104	RTA00000126A.b.10.1	M00001547A:F06	0
4846	2/24/98	1177	RTA00000126A.b.9.1	M00001547A:F11	81279
4847	2/24/98	923	RTA00000126A.d.19.1	M00001548A:G01	79474
4848	2/24/98	98	RTA00000411F.l.03.1	M00003854D:A12	62702
4849	2/24/98	625	RTA00000126A.h.22.2	M00001549A:F01	0
4850	1/28/98	710	RTA00000196AF.l.3.1	M00001405B:D07	20864
4851	2/24/98	1102	RTA00000126A.j.15.2	M00001549A:H11	40425

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4852	3/24/98	467	RTA00000528F.h.02.2	M00001632C:D08	1701
4853	1/28/98	411	RTA00000179AF.j.13.3	M00001400B:H06	0
4854	2/24/98	1126	RTA00000136A.h.6.1	M00001550A:D09	81620
4855	1/28/98	712	RTA00000201F.b.21.1	M00004341B:G03	9071
4856	2/24/98	1257	RTA00000419F.h.21.1	M00003856C:B08	64828
4857	2/24/98	194	RTA00000124A.k.5.1	M00001538A:F12	80252
4858	1/28/98	508	RTA00000187AF.i.14.2	M00001679B:H07	19406
4858	2/24/98	928	RTA00000340F.m.04.1	M00001679B:H07	19406
4859	1/28/98	3	RTA00000197AF.e.24.1	M00001456B:F10	39250
4859	1/28/98	674	RTA00000197AR.e.24.1	M00001456B:F10	39250
4860	2/24/98	606	RTA00000420F.l.20.2	M00005232A:C10	0
4861	2/24/98	30	RTA00000411F.m.24.1	M00003870B:B08	77568
4862	2/24/98	31	RTA00000134A.j.10.1	M00001534A:G06	81383
4863	2/24/98	1136	RTA00000406F.c.05.1	M00003870A:H01	22077
4864	2/24/98	411	RTA00000420F.m.12.1	M00005234D:B04	0
4865	2/24/98	1086	RTA00000403F.n.22.2	M00001578B:B05	26775
4865	2/24/98	1085	RTA00000403F.n.22.1	M00001578B:B05	26775
4866	2/24/98	1018	RTA00000413F.j.21.1	M00004688A:A02	0
4867	2/24/98	657	RTA00000124A.k.20.1	M00001538A:C08	80913
4868	2/24/98	718	RTA00000124A.k.23.1	M00001538A:D03	81350
4869	2/24/98	1092	RTA00000125A.c.2.1	M00001542A:F06	40148
4870	2/24/98	615	RTA00000135A.b.23.1	M00001538A:D12	35241
4871	2/24/98	639	RTA00000414F.d.09.1	M00005231C:B01	0
4872	2/24/98	1086	RTA00000403F.n.22.2	M00001578B:B05	26775
4872	2/24/98	1085	RTA00000403F.n.22.1	M00001578B:B05	26775
4873	2/24/98	99	RTA00000420F.m.19.1	M00005254D:B08	0
4874	2/24/98	1085	RTA00000403F.n.22.1	M00001578B:B05	26775
4874	2/24/98	1086	RTA00000403F.n.22.2	M00001578B:B05	26775
4875	2/24/98	1086	RTA00000403F.n.22.2	M00001578B:B05	26775
4875	2/24/98	1085	RTA00000403F.n.22.1	M00001578B:B05	26775
4876	1/28/98	725	RTA00000197AF.b.1.1	M00001441D:E04	12134
4877	2/24/98	215	RTA00000403F.j.18.1	M00001539D:E10	5790
4878	2/24/98	1010	RTA00000408F.n.16.2	M00001540C:B03	73720
4879	2/24/98	1074	RTA00000423F.h.11.1	M00003867C:E11	38977
4880	2/24/98	27	RTA00000420F.n.19.2	M00005259B:C01	0
4881	1/28/98	578	RTA00000180AF.g.17.1	M00001426A:A09	16653
4882	2/24/98	1172	RTA00000423F.h.03.1	M00003875D:D09	37903
4883	2/24/98	1008	RTA00000414F.f.07.1	M00005259C:B05	0
4884	2/24/98	582	RTA00000414F.e.14.1	M00005236B:F10	0
4885	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4885	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4885	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4886	2/24/98	1223	RTA00000347F.a.14.1	M00001429D:F11	7421
4887	2/24/98	488	RTA00000339F.k.23.1	M00001429D:H12	0
4888	3/24/98	100	RTA00000424F.i.21.1	M00001596A:E07	73482
4889	3/24/98	64	RTA00000424F.i.24.1	M00001596A:G06	79101
4890	3/24/98	207	RTA00000424F.j.07.1	M00001596B:C11	79211
4891	3/24/98	327	RTA00000424F.j.08.1	M00001596B:D09	73972
4892	3/24/98	349	RTA00000424F.j.09.1	M00001596B:H05	74387
4893	3/24/98	154	RTA00000522F.h.13.1	M00001596C:F09	40823

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4894	2/24/98	1252	RTA00000400F.g.08.1	M00001639A:C11	1275
4895	2/24/98	261	RTA00000341F.b.06.1	M00003794A:E12	17008
4896	1/28/98	312	RTA00000193AF.h.2.1	M00004290A:B03	3273
4897	1/28/98	590	RTA00000190AF.d.2.1	M00003906B:F12	2444
4898	1/28/98	213	RTA00000200F.o.04.1	M00004260D:C12	12514
4899	2/24/98	333	RTA00000399F.f.11.1	M00001487C:F01	40167
4900	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4900	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4900	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4901	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4901	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4901	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4902	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4902	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4902	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4903	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4903	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4903	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4904	1/28/98	249	RTA00000200R.o.03.2	M00004257C:H06	22807
4904	1/28/98	85	RTA00000200R.o.03.1	M00004257C:H06	22807
4904	1/28/98	178	RTA00000200F.o.03.1	M00004257C:H06	22807
4905	3/24/98	133	RTA00000425F.f.04.1	M00001607A:B06	24633
4906	3/24/98	169	RTA00000425F.f.05.1	M00001607A:D10	24090
4907	2/24/98	44	RTA00000418F.k.14.1	M00001639A:H06	76133
4908	2/24/98	1204	RTA00000419F.l.02.1	M00003879A:C01	75736
4909	2/24/98	748	RTA00000346F.f.11.1	M00003793C:D09	38528
4910	2/24/98	4	RTA00000339F.i.20.1	M00001438D:C06	4356
4911	1/28/98	93	RTA00000200F.o.11.1	M00004270A:F11	0
4912	1/28/98	435	RTA00000182AR.c.22.1	M00001467A:D08	16283
4913	1/28/98	683	RTA00000187AR.j.01.1	M00001679C:D01	79028
4914	3/24/98	469	RTA00000522F.e.20.1	M00001590B:H10	26770
4915	1/28/98	172	RTA00000186AF.p.09.2	M00001655C:E04	6879
4916	2/24/98	806	RTA00000345F.f.08.1	M00001413B:H09	0
4917	1/28/98	677	RTA00000197AF.i.19.1	M00001490B:H11	39554
4918	1/28/98	443	RTA00000197AR.i.17.1	M00001490A:E11	3516
4919	2/24/98	863	RTA00000406F.p.08.1	M00004032C:B02	37573
4920	3/24/98	55	RTA00000528F.e.23.1	M00001593B:D10	19242
4921	2/24/98	1211	RTA00000399F.f.14.1	M00001487D:C11	11483
4922	1/28/98	609	RTA00000196AF.n.05.1	M00001418B:F07	12531
4922	2/24/98	1120	RTA00000353R.l.23.1	M00001418B:F07	12531
4923	1/28/98	609	RTA00000196AF.n.05.1	M00001418B:F07	12531
4923	2/24/98	1120	RTA00000353R.l.23.1	M00001418B:F07	12531
4924	3/24/98	474	RTA00000522F.h.05.1	M00001595C:H11	73358
4925	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
4925	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
4926	2/24/98	1112	RTA00000418F.c.05.1	M00001487B:F02	76475
4927	1/28/98	687	RTA00000197AF.g.4.1	M00001464B:B03	8821
4928	2/24/98	990	RTA00000121A.h.19.1	M00001471A:D04	80334
4929	1/28/98	696	RTA00000180AR.d.16.3	M00001419D:C10	11393
4929	2/24/98	1184	RTA00000345F.h.08.1	M00001419D:C10	11393

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4930	1/28/98	751	RTA00000179AF.c.4.3	M00001392D:B11	0
4931	1/28/98	696	RTA00000180AR.d.16.3	M00001419D:C10	11393
4931	2/24/98	1184	RTA00000345F.h.08.1	M00001419D:C10	11393
4932	1/28/98	162	RTA00000201F.e.15.1	M00004444B:D11	9960
4933	1/28/98	126	RTA00000201F.d.16.1	M00004388B:A08	0
4934	1/28/98	332	RTA00000193AR.n.04.3	M00004375C:D01	9850
4935	2/24/98	838	RTA00000408F.k.19.1	M00001487C:G03	77593
4936	2/24/98	113	RTA00000401F.e.02.1	M00003805B:C04	0
4937	3/24/98	278	RTA00000522F.g.21.1	M00001595C:A09	77310
4938	3/24/98	54	RTA00000425F.f.19.1	M00001653D:G07	32635
4939	2/24/98	976	RTA00000419F.b.17.1	M00003808D:D04	63261
4940	2/24/98	59	RTA00000346F.j.08.1	M00003879B:A06	39951
4941	2/24/98	151	RTA00000341F.c.21.1	M00003789C:F06	7899
4942	1/28/98	67	RTA00000200AF.g.07.1	M00004128B:G01	0
4943	2/24/98	324	RTA00000340F.p.17.1	M00003750C:H05	0
4944	2/24/98	476	RTA00000345F.h.01.1	M00001441B:D11	10834
4945	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
4945	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
4946	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
4946	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
4947	2/24/98	991	RTA00000419F.b.10.1	M00001694C:G04	78566
4948	2/24/98	14	RTA00000419F.b.09.1	M00001694C:F12	78128
4949	1/28/98	261	RTA00000192AF.a.24.1	M00004114C:F11	13183
4950	1/28/98	24	RTA00000200AF.f.11.1	M00004111D:D11	0
4951	3/24/98	408	RTA00000522F.o.10.1	M00001660D:E05	78798
4952	1/28/98	328	RTA00000200AF.g.09.1	M00004131B:H09	22785
4952	1/28/98	26	RTA00000200R.g.09.1	M00004131B:H09	22785
4953	2/24/98	861	RTA00000419F.b.06.1	M00001694B:B08	76728
4954	3/24/98	24	RTA00000522F.n.08.1	M00001656A:D10	76343
4955	2/24/98	760	RTA00000423F.d.04.1	M00001694A:B12	11307
4956	3/24/98	220	RTA00000522F.o.18.1	M00001669B:H06	76366
4957	2/24/98	279	RTA00000418F.i.21.1	M00001596D:E10	78728
4958	1/28/98	84	RTA00000191AF.h.14.1	M00004056B:D09	13553
4959	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
4959	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
4960	2/24/98	217	RTA00000399F.o.17.1	M00001599D:A09	1106
4961	1/28/98	287	RTA00000200AF.b.07.1	M00004039C:C01	17125
4961	1/28/98	173	RTA00000200AR.b.07.1	M00004039C:C01	17125
4962	1/28/98	287	RTA00000200AF.b.07.1	M00004039C:C01	17125
4962	1/28/98	173	RTA00000200AR.b.07.1	M00004039C:C01	17125
4963	1/28/98	287	RTA00000200AF.b.07.1	M00004039C:C01	17125
4963	1/28/98	173	RTA00000200AR.b.07.1	M00004039C:C01	17125
4964	1/28/98	287	RTA00000200AF.b.07.1	M00004039C:C01	17125
4964	1/28/98	173	RTA00000200AR.b.07.1	M00004039C:C01	17125
4965	3/24/98	464	RTA00000522F.p.18.1	M00001671A:H06	76376
4966	3/24/98	453	RTA00000522F.p.22.1	M00001671B:F02	73322
4967	2/24/98	54	RTA00000399F.o.01.1	M00001595C:E01	3055
4968	2/24/98	1219	RTA00000347F.e.20.1	M00003771B:E05	39911
4969	2/24/98	825	RTA00000404F.k.22.2	M00001635D:C12	39084
4969	2/24/98	364	RTA00000404F.k.22.1	M00001635D:C12	39084

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
4970	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4970	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4970	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4971	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4971	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4971	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4972	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4972	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4972	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4973	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4973	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4973	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4974	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4974	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4974	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4975	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4975	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4975	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4976	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4976	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4976	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4977	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4977	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4977	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4978	1/28/98	241	RTA00000200AF.l.17.1	M00004217C:D03	12771
4978	1/28/98	151	RTA00000200R.l.17.1	M00004217C:D03	12771
4978	1/28/98	202	RTA00000200R.l.17.2	M00004217C:D03	12771
4979	1/28/98	366	RTA00000192AF.o.19.1	M00004208D:H08	3549
4980	1/28/98	328	RTA00000200AF.g.09.1	M00004131B:H09	22785
4980	1/28/98	26	RTA00000200R.g.09.1	M00004131B:H09	22785
4981	1/28/98	245	RTA00000200AF.k.7.1	M00004193C:G11	0
4982	2/24/98	1036	RTA00000339F.k.08.1	M00001439B:A10	8133
4983	2/24/98	72	RTA00000347F.a.08.1	M00001592C:G04	3135
4984	2/24/98	1163	RTA00000341F.b.14.1	M00003763A:C01	5992
4985	2/24/98	278	RTA00000404F.c.10.1	M00001593B:E11	23534
4986	1/28/98	250	RTA00000192AF.j.21.1	M00004176D:B12	2289
4987	2/24/98	511	RTA00000341F.b.13.1	M00003762B:H09	0
4988	1/28/98	27	RTA00000192AF.i.12.1	M00004169C:C12	5319
4989	2/24/98	416	RTA00000404F.c.19.1	M00001594A:D06	39026
4990	2/24/98	351	RTA00000340F.p.20.1	M00003752B:C02	17008
4991	1/28/98	215	RTA00000192AR.e.14.3	M00004142A:D08	3300
4992	1/28/98	163	RTA00000192AR.e.13.3	M00004142A:B12	9457
4993	1/28/98	318	RTA00000200AF.g.17.1	M00004138A:H09	0
4994	2/24/98	1105	RTA00000340F.p.18.1	M00003751C:A04	287
4995	2/24/98	1080	RTA00000351R.g.06.1	M00003771D:G05	0
4996	2/24/98	478	RTA00000418F.h.08.1	M00001589B:E07	76401
4997	2/24/98	584	RTA00000418F.d.22.1	M00001573B:C06	75324
4998	2/24/98	493	RTA00000129A.d.1.2	M00001587A:F05	80058
4999	2/24/98	402	RTA00000420F.e.16.1	M00004110A:E04	63639
5000	2/24/98	1006	RTA00000129A.e.14.1	M00001587A:F08	80053

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
5001	2/24/98	285	RTA00000413F.i.02.1	M00004110D:A10	65857
5002	1/28/98	659	RTA00000185AR.k.23.2	M00001601A:E09	0
5003	2/24/98	122	RTA00000420F.f.06.1	M00004115D:D08	64812
5004	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
5004	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
5005	1/28/98	87	RTA00000195AF.d.20.1	M00004117A:D11	37574
5005	2/24/98	245	RTA00000195AF.d.20.1	M00004117A:D11	37574
5006	2/24/98	720	RTA00000129A.d.2.4	M00001587A:G06	80119
5007	2/24/98	687	RTA00000350R.g.10.1	M00001587C:C10	9026
5008	3/24/98	18	RTA00000522F.e.16.1	M00001590A:C08	75283
5009	1/28/98	447	RTA00000198AF.d.8.1	M00001587A:H03	0
5010	1/28/98	554	RTA00000186AR.e.07.4	M00001623D:G03	4175
5010	1/28/98	400	RTA00000186AR.e.07.3	M00001623D:G03	4175
5011	1/28/98	526	RTA00000185AF.e.20.1	M00001585A:D06	5865
5012	2/24/98	1	RTA00000404F.a.02.1	M00001589B:E12	9738
5013	1/28/98	530	RTA00000185AF.d.24.2	M00001582D:F05	0
5014	2/24/98	1096	RTA00000421F.a.06.1	M00001589C:A11	2385
5015	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
5015	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
5016	1/28/98	626	RTA00000185AR.d.11.1	M00001579D:C03	6539
5016	1/28/98	131	RTA00000185AF.d.11.2	M00001579D:C03	6539
5017	2/24/98	1020	RTA00000412F.p.06.1	M00004038B:H10	65485
5018	1/28/98	671	RTA00000185AR.d.08.1	M00001579C:E09	6562
5019	2/24/98	1240	RTA00000404F.a.18.1	M00001590B:B02	36267
5020	2/24/98	115	RTA00000418F.h.19.1	M00001590B:C05	0
5021	2/24/98	211	RTA00000404F.a.19.1	M00001590B:C07	38624
5022	1/28/98	455	RTA00000198AF.d.12.1	M00001589A:C01	21142
5023	1/28/98	622	RTA00000186AR.m.14.2	M00001649B:G12	9800
5024	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
5024	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
5025	1/28/98	520	RTA00000195AF.c.8.1	M00001678B:H01	0
5025	2/24/98	958	RTA00000195AF.c.8.1	M00001678B:H01	0
5026	1/28/98	690	RTA00000198R.l.21.1	M00001673A:A04	19194
5027	2/24/98	772	RTA00000413F.e.04.1	M00004090C:C07	64176
5028	2/24/98	834	RTA00000407F.b.11.1	M00004090C:C10	0
5029	2/24/98	1154	RTA00000403F.m.09.2	M00001575B:G01	26814
5030	2/24/98	1203	RTA00000413F.e.10.1	M00004092C:B03	31033
5031	2/24/98	12	RTA00000339F.b.17.1	M00001366D:E12	10020
5032	2/24/98	947	RTA00000347F.g.08.1	M00004096B:F05	23121
5033	1/28/98	39	RTA00000189AR.b.19.1	M00003832B:E01	5294
5033	2/24/98	239	RTA00000346F.j.02.1	M00003832B:E01	5294
5034	1/28/98	39	RTA00000189AR.b.19.1	M00003832B:E01	5294
5034	2/24/98	239	RTA00000346F.j.02.1	M00003832B:E01	5294
5035	2/24/98	560	RTA00000419F.d.16.1	M00003828B:E07	64357
5036	2/24/98	568	RTA00000403F.m.03.1	M00001573D:D10	39179
5037	2/24/98	191	RTA00000419F.d.17.1	M00003828B:F09	64353
5038	2/24/98	607	RTA00000420F.d.16.1	M00004103D:F10	64485
5039	2/24/98	1130	RTA00000354R.p.01.1	M00004104C:H12	0
5040	2/24/98	710	RTA00000413F.g.24.1	M00004104D:A04	65481
5041	2/24/98	24	RTA00000423F.l.09.1	M00004118A:H08	9752

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
5042	2/24/98	896	RTA00000423F.l.20.1	M00004105C:E09	12580
5043	2/24/98	1078	RTA00000423F.f.03.1	M00003829C:D10	63852
5044	1/28/98	558	RTA00000186AR.h.14.1	M00001632D:H07	0
5045	2/24/98	155	RTA00000413F.h.13.1	M00004107A:D01	65190
5046	2/24/98	926	RTA00000399F.k.20.1	M00001585C:D10	3003
5047	2/24/98	1194	RTA00000420F.e.05.1	M00004107D:E12	63908
5048	1/28/98	400	RTA00000186AR.e.07.3	M00001623D:G03	4175
5048	1/28/98	554	RTA00000186AR.e.07.4	M00001623D:G03	4175
5049	2/24/98	570	RTA00000405F.n.13.1	M00003824A:G10	23810
5050	2/24/98	334	RTA00000408F.p.05.1	M00001575B:B02	9649
5051	2/24/98	1029	RTA00000411F.f.04.1	M00003813A:G04	64526
5052	3/24/98	134	RTA00000424F.c.14.3	M00001476D:A09	76614
5053	2/24/98	396	RTA00000406F.e.21.1	M00003877D:G05	9090
5054	3/24/98	230	RTA00000424F.g.14.1	M00001572A:B06	74879
5055	2/24/98	617	RTA00000423F.f.23.1	M00003816C:E09	15390
5056	2/24/98	5	RTA00000408F.o.12.2	M00001572A:A10	78578
5057	2/24/98	689	RTA00000419F.p.03.1	M00004035A:G10	1937
5058	3/24/98	273	RTA00000424F.a.02.4	M00001575A:D06	78806
5059	2/24/98	241	RTA00000339F.d.13.1	M00001395C:F11	0
5060	3/24/98	237	RTA00000522F.c.01.1	M00001576A:C11	74938
5061	1/28/98	745	RTA00000183AF.m.11.1	M00001536D:G02	8927
5062	1/28/98	408	RTA00000183AR.l.15.1	M00001535C:E01	39383
5063	2/24/98	464	RTA00000195AF.c.12.1	M00003818B:G12	37582
5063	1/28/98	300	RTA00000195AF.c.12.1	M00003818B:G12	37582
5064	1/28/98	647	RTA00000197F.m.11.1	M00001530B:D10	16488
5065	2/24/98	464	RTA00000195AF.c.12.1	M00003818B:G12	37582
5065	1/28/98	300	RTA00000195AF.c.12.1	M00003818B:G12	37582
5066	3/24/98	395	RTA00000522F.d.06.1	M00001578B:A02	74809
5067	2/24/98	516	RTA00000339F.f.20.1	M00001399A:C03	6494
5068	2/24/98	890	RTA00000418F.j.19.1	M00001634D:D02	78399
5069	2/24/98	435	RTA00000340F.b.02.1	M00001503C:G05	10185
5070	3/24/98	175	RTA00000528F.d.18.1	M00001582C:E01	2684
5071	2/24/98	168	RTA00000411F.e.22.1	M00003812B:D07	63638
5072	2/24/98	1071	RTA00000404F.k.18.2	M00001635A:C06	5475
5073	2/24/98	189	RTA00000347F.a.13.1	M00001402D:F02	22446
5074	2/24/98	825	RTA00000404F.k.22.2	M00001635D:C12	39084
5074	2/24/98	364	RTA00000404F.k.22.1	M00001635D:C12	39084
5075	3/24/98	25	RTA00000425F.c.06.1	M00001585D:D11	78041
5076	3/24/98	186	RTA00000425F.c.07.1	M00001585D:F03	76042
5077	3/24/98	208	RTA00000424F.m.10.1	M00001586C:E06	34251
5078	2/24/98	420	RTA00000422F.b.16.1	M00003813B:A11	17045
5079	3/24/98	103	RTA00000424F.b.22.1	M00001530A:F11	72971
5079	3/24/98	88	RTA00000424F.b.22.4	M00001530A:F11	72971
5080	3/24/98	318	RTA00000523F.a.01.1	M00001671C:F11	74923
5081	2/24/98	676	RTA00000411F.g.21.1	M00003823D:G05	64500
5082	3/24/98	3	RTA00000528F.b.23.1	M00001479C:F10	1605
5083	2/24/98	1244	RTA00000418F.h.23.1	M00001591A:B08	75153
5084	2/24/98	321	RTA00000339F.c.21.1	M00001389C:A08	5325
5085	1/28/98	429	RTA00000196F.i.19.1	M00001390C:C11	39498
5085	2/24/98	925	RTA00000353R.h.10.1	M00001390C:C11	39498

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
5086	1/28/98	429	RTA00000196F.i.19.1	M00001390C:C11	39498
5086	2/24/98	925	RTA00000353R.h.10.1	M00001390C:C11	39498
5087	3/24/98	471	RTA00000528F.c.11.1	M00001486D:D12	1701
5088	2/24/98	103	RTA00000418F.j.12.1	M00001626C:G08	73316
5089	2/24/98	1148	RTA00000345F.d.23.1	M00001390D:E03	5862
5090	2/24/98	87	RTA00000403F.l.20.1	M00001573A:A06	18267
5091	3/24/98	427	RTA00000522F.b.08.1	M00001570D:E06	26915
5092	1/28/98	661	RTA00000198R.b.04.1	M00001565A:H09	0
5093	2/24/98	200	RTA00000339F.c.02.1	M00001381C:B08	12975
5094	2/24/98	1243	RTA00000404F.j.19.1	M00001630D:H10	0
5095	1/28/98	750	RTA00000198AF.a.19.1	M00001561D:C05	0
5096	2/24/98	418	RTA00000410F.a.01.1	M00001631D:B10	73354
5097	3/24/98	458	RTA00000424F.d.12.3	M00001530D:E06	74342
5097	3/24/98	454	RTA00000424F.d.12.2	M00001530D:E06	74342
5098	3/24/98	458	RTA00000424F.d.12.3	M00001530D:E06	74342
5098	3/24/98	454	RTA00000424F.d.12.2	M00001530D:E06	74342
5099	2/24/98	159	RTA00000348R.j.17.1	M00001391D:C06	2641
5100	2/24/98	539	RTA00000346F.m.15.1	M00004037B:C04	13553
5101	2/24/98	170	RTA00000422F.n.08.1	M00001632B:E05	38655
5102	3/24/98	162	RTA00000522F.a.12.1	M00001567A:H05	33515
5103	2/24/98	315	RTA00000419F.p.12.1	M00004037A:E04	13767
5104	2/24/98	119	RTA00000423F.k.05.1	M00004036D:F02	37472
5105	3/24/98	12	RTA00000522F.a.23.1	M00001570C:A05	38613
5106	3/24/98	103	RTA00000424F.b.22.1	M00001530A:F11	72971
5106	3/24/98	88	RTA00000424F.b.22.4	M00001530A:F11	72971
5107	2/24/98	21	RTA00000411F.g.08.1	M00003822D:D04	45815
5108	1/28/98	35	RTA00000191AF.n.17.1	M00004091B:D11	7848
5109	3/24/98	39	RTA00000527F.c.23.1	M00003822C:A07	37742
5110	1/28/98	43	RTA00000179AF.c.14.3	M00001392D:H04	0
5111	2/24/98	54	RTA00000399F.o.01.1	M00001595C:E01	3055
5112	2/24/98	63	RTA00000404F.l.20.2	M00001639B:H05	38638
5113	1/28/98	82	RTA00000183AF.l.18.1	M00001535D:C01	3484
5114	3/24/98	84	RTA00000527F.k.18.1	M00003982B:C10	11332
5115	1/28/98	99	RTA00000184AF.d.8.1	M00001548A:A08	4393
5116	2/24/98	99	RTA00000420F.m.19.1	M00005254D:B08	0
5117	2/24/98	100	RTA00000339F.o.23.1	M00001473C:D09	7801
5118	2/24/98	104	RTA00000421F.n.03.1	M00001675C:A04	1638
5119	2/24/98	105	RTA00000346F.d.08.1	M00001671A:A10	39955
5120	2/24/98	114	RTA00000341F.m.21.1	M00004051D:E01	0
5121	1/28/98	137	RTA00000181AF.m.4.3	M00001455A:E09	13238
5122	1/28/98	162	RTA00000201F.e.15.1	M00004444B:D11	9960
5123	1/28/98	170	RTA00000197AF.d.23.1	M00001453A:E11	16130
5124	1/28/98	206	RTA00000181AF.o.04.2	M00001457C:C12	22205
5125	1/28/98	209	RTA00000182AF.c.5.1	M00001464D:F06	6397
5126	2/24/98	215	RTA00000403F.j.18.1	M00001539D:E10	5790
5127	2/24/98	219	RTA00000419F.c.18.1	M00003819D:B11	41394
5128	1/28/98	229	RTA00000198AF.g.3.1	M00001615C:F03	0
5129	1/28/98	230	RTA00000185AR.b.18.1	M00001575B:C09	12171
5130	3/24/98	245	RTA00000522F.p.09.1	M00001670A:F09	75204
5131	2/24/98	258	RTA00000406F.k.15.1	M00003907C:C04	38549

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5132	1/28/98	262	RTA00000186AF.c.17.1	M00001619D:G05	8551
5133	1/28/98	269	RTA00000183AF.k.13.1	M00001534B:C12	0
5134	1/28/98	276	RTA00000198AF.j.15.1	M00001653B:E09	4369
5135	2/24/98	281	RTA00000411F.l.13.1	M00003857C:C09	43114
5136	1/28/98	284	RTA00000199F.d.10.2	M00003808C:B05	22049
5137	1/28/98	292	RTA00000199AF.m.18.1	M00003939C:F04	0
5138	1/28/98	297	RTA00000178AF.f.9.3	M00001371C:E09	7172
5139	2/24/98	301	RTA00000401F.m.23.1	M00003914C:C02	2801
5140	1/28/98	302	RTA00000186AF.d.1.2	M00001621C:C08	40044
5141	1/28/98	315	RTA00000199R.d.23.1	M00003815D:H09	37477
5142	2/24/98	315	RTA00000419F.p.12.1	M00004037A:E04	13767
5143	1/28/98	321	RTA00000181AR.b.21.1	M00001444C:D05	3266
5144	3/24/98	323	RTA00000524F.c.12.1	M00005218B:D09	0
5145	1/28/98	329	RTA00000186AF.b.9.1	M00001616C:F07	0
5146	1/28/98	334	RTA00000181AR.b.21.3	M00001444C:D05	3266
5147	2/24/98	334	RTA00000408F.p.05.1	M00001575B:B02	9649
5148	1/28/98	335	RTA00000182AF.e.3.2	M00001468B:H06	0
5149	1/28/98	336	RTA00000186AF.f.24.1	M00001629B:E06	0
5150	2/24/98	341	RTA00000412F.g.20.2	M00003972C:F08	25018
5151	2/24/98	343	RTA00000422F.g.21.1	M00001583A:F07	17232
5152	1/28/98	347	RTA00000199F.b.03.2	M00003779B:E12	38340
5153	2/24/98	354	RTA00000404F.c.03.2	M00001592C:F11	39198
5154	1/28/98	361	RTA00000177AR.g.16.4	M00001347A:B10	13576
5155	1/28/98	364	RTA00000187AF.g.13.1	M00001676C:C11	2991
5156	2/24/98	377	RTA00000346F.i.01.1	M00003797A:D06	22260
5157	2/24/98	389	RTA00000411F.c.02.1	M00001677B:B04	72852
5158	2/24/98	403	RTA00000403F.d.22.1	M00001473A:A07	10692
5159	1/28/98	407	RTA00000178AF.e.20.1	M00001370D:E12	3135
5160	1/28/98	422	RTA00000189AF.b.12.1	M00003829B:G03	17233
5161	2/24/98	429	RTA00000422F.c.17.1	M00004099D:F01	1360
5162	2/24/98	431	RTA00000399F.j.15.1	M00001578C:G06	1261
5163	1/28/98	439	RTA00000185AF.d.14.2	M00001579D:G07	8071
5164	2/24/98	448	RTA00000127A.a.3.1	M00001552A:H10	13232
5165	2/24/98	450	RTA00000118A.a.23.1	M00001395A:H02	3500
5166	1/28/98	451	RTA00000200AF.b.20.1	M00004043A:D02	40403
5167	2/24/98	455	RTA00000399F.d.23.1	M00001481B:A07	3310
5168	1/28/98	475	RTA00000187AR.m.3.3	M00001682C:B12	17055
5169	3/24/98	475	RTA00000427F.i.06.1	M00004097B:D03	41450
5170	3/24/98	477	RTA00000527F.l.21.1	M00003983D:H02	36439
5171	1/28/98	480	RTA00000181AF.o.08.2	M00001457C:H12	849
5172	3/24/98	480	RTA00000424F.d.17.3	M00001455A:E11	73958
5173	3/24/98	481	RTA00000523F.j.02.1	M00003857A:H10	62853
5174	1/28/98	483	RTA00000192AF.h.19.1	M00004162C:A07	4642
5175	2/24/98	489	RTA00000406F.j.19.1	M00003906A:F12	1685
5176	1/28/98	501	RTA00000200R.k.11.1	M00004197C:F03	9796
5177	2/24/98	502	RTA00000341F.d.08.1	M00003824C:D07	0
5178	2/24/98	508	RTA00000420F.i.20.1	M00005101C:E12	0
5179	1/28/98	510	RTA00000178AF.n.23.1	M00001387B:E02	3298
5180	1/28/98	511	RTA00000196AF.g.10.1	M00001376B:A02	12498
5181	2/24/98	519	RTA00000404F.l.10.1	M00001638B:F10	23136

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
5182	2/24/98	524	RTA00000419F.f.23.1	M00003840D:H10	65002
5183	1/28/98	525	RTA00000198AF.c.7.1	M00001575D:G05	19181
5184	1/28/98	526	RTA00000185AF.e.20.1	M00001585A:D06	5865
5185	1/28/98	527	RTA00000198R.m.23.1	M00001684B:G03	38469
5186	1/28/98	529	RTA00000178AF.b.13.1	M00001364A:E11	3114
5187	1/28/98	530	RTA00000185AF.d.24.2	M00001582D:F05	0
5188	1/28/98	540	RTA00000179AF.b.10.3	M00001391D:D10	0
5189	1/28/98	541	RTA00000197AR.b.16.1	M00001445C:A08	0
5190	1/28/98	545	RTA00000196F.a.2.1	M00001338B:E02	3575
5191	2/24/98	547	RTA00000419F.h.02.1	M00003845D:G08	63985
5192	1/28/98	548	RTA00000179AF.f.23.3	M00001397B:G03	35258
5193	1/28/98	550	RTA00000183AF.g.14.1	M00001513D:A03	0
5194	2/24/98	555	RTA00000133A.d.22.1	M00001469A:G11	11797
5195	1/28/98	569	RTA00000196AF.l.23.1	M00001412A:E04	12052
5196	1/28/98	570	RTA00000183AF.a.19.2	M00001499A:A05	3788
5197	1/28/98	574	RTA00000192AF.f.3.1	M00004146C:C11	5257
5198	1/28/98	575	RTA00000186AF.l.12.2	M00001645A:C12	19267
5199	1/28/98	576	RTA00000196AF.c.7.1	M00001350B:G11	0
5200	2/24/98	579	RTA00000413F.m.16.1	M00004898C:F03	0
5201	1/28/98	580	RTA00000197F.a.12.1	M00001438B:B09	7895
5202	2/24/98	580	RTA00000403F.o.07.1	M00001579C:A01	39037
5203	2/24/98	584	RTA00000418F.d.22.1	M00001573B:C06	75324
5204	1/28/98	585	RTA00000198AF.n.18.1	M00001771A:A07	16715
5205	1/28/98	601	RTA00000184AF.i.10.2	M00001555A:B01	3744
5206	1/28/98	607	RTA00000200AF.k.12.1	M00004198B:D02	7359
5207	1/28/98	613	RTA00000177AF.k.18.4	M00001352C:A05	53729
5208	1/28/98	640	RTA00000190AF.f.5.1	M00003909A:H04	5015
5209	2/24/98	645	RTA00000422F.p.12.2	M00001661C:F10	9840
5210	1/28/98	654	RTA00000186AF.j.21.2	M00001639D:B07	22506
5211	1/28/98	680	RTA00000177AF.f.10.1	M00001345A:E01	6420
5212	1/28/98	699	RTA00000178AF.a.12.1	M00001362B:H06	0
5213	1/28/98	703	RTA00000198F.l.09.1	M00001664B:D06	3611
5214	1/28/98	704	RTA00000190AF.o.12.1	M00003972D:C09	3438
5215	1/28/98	723	RTA00000183AF.p.24.1	M00001543C:F01	3116
5216	2/24/98	733	RTA00000405F.d.18.1	M00001662C:B02	10494
5217	1/28/98	739	RTA00000181AF.p.12.3	M00001460C:H02	22204
5218	1/28/98	742	RTA00000177AF.m.1.1	M00001353D:D10	14929
5219	2/24/98	774	RTA00000403F.e.24.1	M00001476B:D10	16432
5220	2/24/98	775	RTA00000405F.c.22.1	M00001660C:B06	39053
5221	2/24/98	790	RTA00000345F.n.08.1	M00001517A:B11	0
5222	2/24/98	816	RTA00000354R.n.04.1	M00003808C:B05	22049
5223	2/24/98	829	RTA00000411F.m.11.1	M00003867A:D12	73196
5224	2/24/98	851	RTA00000423F.d.07.1	M00001678B:B12	0
5225	2/24/98	871	RTA00000403F.f.23.1	M00001479C:E01	39223
5226	2/24/98	877	RTA00000418F.m.22.1	M00001654D:E12	74567
5227	2/24/98	914	RTA00000138A.m.15.1	M00001624A:A03	41603
5228	2/24/98	923	RTA00000126A.d.19.1	M00001548A:G01	79474
5229	2/24/98	924	RTA00000354R.m.02.1	M00003890B:C08	12766
5230	2/24/98	940	RTA00000414F.f.17.1	M00005260A:F04	0
5231	2/24/98	1005	RTA00000339F.e.17.1	M00001397D:G08	7568

SEQ ID NO:	Filing Date of Priority Appln	SEQ ID NO: in Priority Appln	Sequence Name	Clone Name	Cluster ID
5232	2/24/98	1013	RTA00000404F.b.18.1	M00001592A:H05	13669
5233	2/24/98	1037	RTA00000339F.l.12.1	M00001450A:G11	7711
5234	2/24/98	1055	RTA00000346F.a.04.1	M00001607B:C05	5382
5235	2/24/98	1070	RTA00000346F.n.22.1	M00004137A:D06	0
5236	2/24/98	1096	RTA00000421F.a.06.1	M00001589C:A11	2385
5237	2/24/98	1125	RTA00000118A.n.5.1	M00001451A:C10	0
5238	2/24/98	1128	RTA00000423F.a.02.3	M00001656B:A08	39210
5239	2/24/98	1129	RTA00000401F.m.07.1	M00003907D:F11	2893
5240	2/24/98	1136	RTA00000406F.c.05.1	M00003870A:H01	22077
5241	2/24/98	1142	RTA00000418F.i.06.1	M00001591B:B06	75151
5242	2/24/98	1145	RTA00000423F.k.21.2	M00003984D:B08	37499
5243	2/24/98	1149	RTA00000339F.b.02.1	M00001344B:F12	0
5244	2/24/98	1166	RTA00000347F.h.01.1	M00004040A:G12	12043
5245	2/24/98	1177	RTA00000126A.b.9.1	M00001547A:F11	81279
5246	2/24/98	1187	RTA00000120A.c.19.1	M00001464A:B03	81016
5247	2/24/98	1203	RTA00000413F.e.10.1	M00004092C:B03	31033
5248	2/24/98	1205	RTA00000419F.k.05.1	M00003871C:E04	11757
5249	2/24/98	1230	RTA00000399F.j.14.1	M00001578C:F05	16942
5250	2/24/98	1233	RTA00000418F.l.02.1	M00001641C:C05	39316
5251	2/24/98	1248	RTA00000419F.o.07.1	M00003986C:E09	14059
5252	2/24/98	1261	RTA00000404F.m.17.2	M00001643B:E05	0

Table 2

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2503	AB011149	Homo sapiens mRNA for KIAA0577 protein, complete cds	0	3043678	(AB011149) KIAA0577 protein [Homo sapiens]	1e-096
2504	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2505	Z59973	H.sapiens CpG DNA, clone 184b10, forward read cpg184b10.ft1a .	1e-009	<NONE>	<NONE>	<NONE>
2506	AJ000742	Homo Sapiens hisH1 gene, 5' UTR	2e-016	<NONE>	<NONE>	<NONE>
2507	U10324	Human nuclear factor NF90 mRNA, complete cds.	3e-009	1729881	TETRACYCLINE RESISTANCE PROTEIN, CLASS H (TETA(H)) >gi|392873 (U00792) tetracycline resistance protein [Pasteurella multocida]	9.3
2508	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	1890128	(U89949) folate binding protein [Sus scrofa]	7.3
2509	M15657	Human aldolase B (ALDOB) gene, exons 2 through 6.	0.002	<NONE>	<NONE>	<NONE>
2510	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
2511	U39722	Mycoplasma genitalium section 44 of 51 of the complete genome	0.043	2773162	(AF039595) sulfonylurea receptor 1B [Rattus norvegicus]	10
2512	AB012174	Homo sapiens DNA, anonymous heat-stable fragment RP7-1B	7e-017	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2513	AB012174	Homo sapiens DNA, anonymous heat-stable fragment RP7-1B	7e-017	<NONE>	<NONE>	<NONE>
2514	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	2984585	(AC004472) P1.11659_4 [Homo sapiens]	1e-013
2515	AF061016	Homo sapiens UDP-glucose dehydrogenase (UGDH) mRNA, complete cds	0	3127127	(AF061016) UDP-glucose dehydrogenase [Homo sapiens] dehydrogenase [Homo sapiens]	7e-035
2516	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	2983872	(AE000742) putative protein [Aquifex aeolicus]	1.5
2517	X13293	Human mRNA for B-myb gene	3e-019	127584	MYB-RELATED PROTEIN B (B-MYB) human >gi|29472 (X13293) B-myb protein (AA 1-700) [Homo sapiens]	0.0002
2518	Y10183	H.sapiens mRNA for MEMD protein	0	3882036	(AJ010405) hypothetical protein	2.5
2519	M90297	Human glucokinase (GCK) gene, exon 1 and 5' flanking region.	4e-023	2851668	HYPOTHETICAL OUTER MEMBRANE USHER PROTEIN IN RIBB-GLGS INTERGENIC REGION PRECURSOR	7.8
2520	V00436	Gallus gallus fragment of gene X of ovalbumin family coding for the first leader exon.	4.4	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2521	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	3800811	(AF072251) methyl-CpG binding protein 2 [Mus musculus]	6.9
2522	Y09540	H.sapiens AHSG gene, partial	2e-007	2135357	HLA class I alpha chain - human (fragment) sapiens]	3.1
2523	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3e-007	<NONE>	<NONE>	<NONE>
2524	D87438	Human mRNA for KIAA0251 gene, partial cds	1e-011	<NONE>	<NONE>	<NONE>
2525	AE001203	Treponema pallidum section 19 of 87 of the complete genome	0.42	<NONE>	<NONE>	<NONE>
2526	U47322	Cloning vector DNA, complete sequence.	2e-036	987050	(X65335) lacZ gene product [unidentified cloning vector]	4e-008
2527	M97287	Human MAR/SAR DNA binding protein (SATB1) mRNA, complete cds. > :: gb|I58691|I58691 Sequence 1 from patent US 5652340	0	417747	DNA-BINDING PROTEIN SATB1 (SPECIAL AT-RICH SEQUENCE BINDING PROTEIN 1) protein SATB1 - human >gi|337811 (M97287) putative [Homo sapiens]	2e-009
2528	AF005355	Oryctolagus cuniculus translation initiation factor eIF2C mRNA, complete cds	1e-094	3253159	(AF005355) translation initiation factor eIF2C	2e-084
2529	L16978	Anadara trapezia beta globin gene, complete cds.	0.11	<NONE>	<NONE>	<NONE>
2530	M24191	Human beta globulin pseudogene, clone 46B	0.013	3878519	(Z92806) K10G4.7 [Caenorhabditis legans]	0.6

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2531	AF047611	Euroglyphus maynei group 1 allergen Eur m 1 0102	0.12	<NONE>	<NONE>	<NONE>
2532	AE001372	Plasmodium falciparum chromosome 2, section 9 of 73 of the complete sequence	0.002	<NONE>	<NONE>	<NONE>
2533	J04700	Homo sapiens calcium-dependent protease large subunit (CANPmL) gene, promoter region and exon 1.	0.014	<NONE>	<NONE>	<NONE>
2534	AF038958	Homo sapiens synaptic glycoprotein SC2 spliced variant mRNA, complete cds	4e-086	2144098	SC2 - rat >gi|256994|bbs|115268 (S45663) SC2=synaptic glycoprotein [rats, brain, Peptide, 308 aa]	1e-033
2535	L13434	Human chromosome 3p21.1 gene sequence, complete cds.	8e-008	1085432	mucin (clone PGM-2A) - pig	4.3
2536	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	3873713	(Z74026) cDNA EST yk452h4.3 comes from this gene; cDNA EST yk452h4.5 comes from this gene	4e-010
2537	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>
2538	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	386644	type Ia hair keratin a3 [human, Peptide, 404 aa] >gi|3724101|gnl|PID|e1330425 (Y16788) keratin, type I [Homo sapiens]	1.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2539	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
2540	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2541	U79248	Human clone 23826 mRNA sequence	6e-005	<NONE>	<NONE>	<NONE>
2542	D44598	Saccharomyces cerevisiae chromosome VI phage 4121	1e-010	2828280	(AL021687) putative protein [Arabidopsis thaliana] >gi|2832633|gnl|PID|e1249651 (AL021711) putative protein [Arabidopsis thaliana]	6e-060
2543	X64037	H.sapiens mRNA for RNA polymerase II associated protein RAP74	0	35871	(X64002) RAP74 [Homo sapiens] >gi|228483|prf||1804353A transcription factor RAP74 [Homo sapiens]	4e-049
2544	M18857	A.californica nuclear polyhedrosis virus ORFs encoding a delayed early protein and two late protein, complete cds.	0.38	3169096	(AL023706) hypothetical protein	3e-029
2545	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
2546	L22403	Homo sapiens DNA sequence, repeat region.	1e-020	<NONE>	<NONE>	<NONE>
2547	L22403	Homo sapiens DNA sequence, repeat region.	1e-020	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2548	D38417	Mouse mRNA for arylhydrocarbon receptor, complete cds	3e-028	<NONE>	<NONE>	<NONE>
2549	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
2550	X04754	Drosophila yolk polypeptide gene YP3	1e-012	2500649	PROBABLE RNA 3'-TERMINAL PHOSPHATE CYCLASE (RNA-3'-PHOSPHATE CYCLASE) (RNA CYCLASE)	1e-022
2551	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-011	<NONE>	<NONE>	<NONE>
2552	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
2553	U49169	Dictyostelium discoideum V-ATPase A subunit (vatA) mRNA, complete cds	0.13	586429	VERY HYPOTHETICAL 13.2 KD PROTEIN IN PTC3-SAS3 INTERGENIC REGION >gi|626813|pir||S45788 probable membrane protein YBL053w - yeast (Saccharomyces cerevisiae) >gi|536079 (Z35814) ORF YBL053w	1.1
2554	M22462	Chicken protein p54 (ets-1) mRNA, complete cds.	1.1	2078531	(U89506) Mlark [Mus musculus]	5.6

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2555	U73664	Human t(11;14)(q13;q32) breakpoint junction sequence	0.37	2909381	(Y16569) ORF [Mycobacterium tuberculosis]	3.3
2556	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	3025166	PUTATIVE NUCLEOSIDE TRANSPORTER YEGT >gi|1736823|gnl|PID|d1016692 (D90848) Nucleoside permease NupG (Nucleoside-transport system protein NupG). [Escherichia coli] >gi|1788415 (AE000299) putative nucleoside permease protein [Escherichia coli]	1.4
2557	U09210	Human vesicular acetylcholine transporter mRNA, complete cds.	0.041	3176395	(AB015041) PIF1 [Caenorhabditis elegans]	1e-006
2558	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	540271	(U14635) similar to GABA and glycine receptors	1e-020
2559	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
2560	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
2561	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	1788739	(AE000327) orf, hypothetical protein [Escherichia coli]	6.8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2562	AF073710	Homo sapiens regulator of G-protein signaling 9 mRNA, complete cds	1e-013	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.38
2563	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.1
2564	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-007	<NONE>	<NONE>	<NONE>
2565	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-015	<NONE>	<NONE>	<NONE>
2566	M98502	Mus musculus protein encoding twelve zinc finger proteins (pMLZ-4) mRNA, complete cds.	2e-017	2370153	(Y13374) putative prenylated protein prenylated protein [Homo sapiens] >gi|3360403 (AF052096) putative prenylated protein [Homo sapiens]	7.3
2567	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.5
2568	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	2580433	(D76414) ppGpp hydrolase [Staphylococcus aureus]	2.4
2569	X82206	H.sapiens mRNA for alpha-centractin	4e-085	2909479	(AL021930) hypothetical protein Rv0290	1.4
2570	Z68758	Human DNA sequence from cosmid cN85E10 on chromosome 22q11.2-qter	8e-009	1082778	secretory phospholipase A2 receptor precursor, transmembrane form - human >gi|862375	7.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2571	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	2583019	(AF022724) ARIX homeodomain protein [Homo sapiens]	0.64
2572	L19637	Arabidopsis thaliana adenine phosphoribosyltransferase (apt) gene, complete cds.	0.12	<NONE>	<NONE>	<NONE>
2573	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-008	388057	(L22982) merozoite surface protein-1 [Plasmodium chabaudi]	6.9
2574	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0005	3913436	PROBABLE ATP-DEPENDENT RNA HELICASE A (NUCLEAR DNA HELICASE II) (NDH II)	9.5
2575	AJ005698	Homo sapiens mRNA for poly(A)-specific ribonuclease	3e-011	3776076	(AJ005698) poly(A)-specific ribonuclease [Homo sapiens]	0.28
2576	Z96602	H.sapiens telomeric DNA sequence, clone 3QTEL015, read 3QTELOO015.seq	2e-006	2407641	(AF018956) neuropilin [Homo sapiens]	1.4
2577	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	3880672	(AL032633) cDNA EST EMBL:T00127 comes from this gene; cDNA EST EMBL:T01189 comes from this gene [Caenorhabditis elegans]	0.82
2578	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2088843	(AF003386) F59E12.9 gene product [Caenorhabditis elegans]	3.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2579	U95315	Mycobacterium gordonae IS1511 transposase and Tn554 tpna transposase homolog genes, complete cds	3.8	<NONE>	<NONE>	<NONE>
2580	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.6
2581	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-013	<NONE>	<NONE>	<NONE>
2582	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
2583	U85193	Human nuclear factor I-B2 (NFIB2) mRNA, complete cds	2e-038	<NONE>	<NONE>	<NONE>
2584	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
2585	U67532	Methanococcus jannaschii section 74 of 150 of the complete genome	0.005	1938410	(U97000) No definition line found [Caenorhabditis elegans]	4.5
2586	X65319	Cloning vector pCAT-Enhancer	3e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
2587	AB006534	Homo sapiens mRNA for hepatocyte growth factor activator inhibitor type 2, complete cds	e-103	2065529	(U78095) bikunin [Homo sapiens]	3e-025

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2588	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	3152559	(AC002986) Similarity to A. thaliana gene product F21M12.20, gb|AC000132. EST gb|Z25651 comes from this gene. [Arabidopsis thaliana]	6e-008
2589	X82829	B.taurus mRNA for nuclear DNA helicase II	9e-009	1353239	(U10245) putative RNA helicase A [Arabidopsis thaliana]	3e-017
2590	AE001366	Plasmodium falciparum chromosome 2, section 3 of 73 of the complete sequence	0.047	<NONE>	<NONE>	<NONE>
2591	D78572	House mouse; Musculus domesticus mRNA for membrane glycoprotein, complete cds > :: dbj|E12950|E12950 cDNA GA3-43 encoding novel polypeptide which appear when differentiate from embryo-tumor cell P19 to nerve cell	1e-041	1545807	(D78572) membrane glycoprotein [Mus musculus]	1e-026
2592	M77130	H.sapiens (clone B7) hY4 Ro RNA pseudogene.	4e-011	629174	cellulose 1,4-beta-cellobiosidase (EC 3.2.1.91) - Clostridium thermocellum >gi|530014 (X80993) cellulose 1,4-beta-cellobiosidase [Clostridium thermocellum]	1.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2593	M34661	Human chaperonin (HSP60) non-functional pseudogene 3.	1	<NONE>	<NONE>	<NONE>
2594	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	1723894	HYPOTHETICAL GTP-BINDING PROTEIN IN SEH1-PRP20 INTERGENIC REGION >gi|2131584|pir||S64106 hypothetical protein YGL099w - yeast (Saccharomyces cerevisiae) >gi|1322637|gnl|PID|e243302 (Z72621) ORF YGL099w [Saccharomyces cerevisiae]	9e-015
2595	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.16
2596	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
2597	U57715	Rattus norvegicus FGF receptor activating protein FRAG1 (FRAG1) mRNA, complete cds	0	1518609	(U57715) FGF receptor activating protein FRAG1 [Rattus norvegicus]	2e-088
2598	Z64776	H.sapiens CpG DNA, clone 167d8, forward read cpg167d8.ft1b .	0.0002	1777782	(U52513) ISG family member [Homo sapiens]	2.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2599	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
2600	AF022158	Homo sapiens KRAB domain zinc finger protein	3e-010	2507553	ZINC FINGER PROTEIN 33A (ZINC FINGER PROTEIN KOX31) (KIAA0065) (HA0946) Kruppel-related. [Homo sapiens]	1e-016
2601	Y07660	M.tuberculosis accBC gene	2e-068	465847	HYPOTHETICAL 66.5 KD PROTEIN F02A9.5 IN CHROMOSOME III >gi|280542|pir||S28313 hypothetical protein F02A9.5 - Caenorhabditis elegans Genefinder; similar to Propionyl-CoA carboxylase beta chain; cDNA EST EMBL:M89018 comes from this gene; cDNA EST EMBL:D2806	8e-075
2602	S51858	MO25 gene [mice, embryos, mRNA, 2322 nt]	0	547911	MO25 PROTEIN >gi|2143483|pir||I57997 hypothetical calcium-binding protein - mouse protein [mice, embryos, Peptide, 341 aa] [Mus sp.]	e-119
2603	AB018345	Homo sapiens mRNA for KIAA0802 protein, partial cds	e-131	3882325	(AB018345) KIAA0802 protein [Homo sapiens]	3e-053

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2604	L41560	Homo sapiens (clones HGPCD2 and HGPCD15) pterin-4a-carbinolamine dehydratase - (PCBD) gene, complete cds.	2e-005	<NONE>	<NONE>	<NONE>
2605	AJ000041	Homo sapiens mRNA for HOXC11	e-180	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.001
2606	U55939	Expression vector pVP-Nco, complete sequence.	4e-043	987050	(X65335) lacZ gene product [unidentified cloning vector]	9e-009
2607	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	124139	TRANS-ACTING TRANSCRIPTIONAL PROTEIN ICP0 >gi|73901|pir||WZBE61 gene 61 protein - human herpesvirus 3 >gi|60050 (X04370) ORF 61 (AA1-467) [Human herpesvirus 3] >gi|228664|prf||1808271A gene 61 protein	0.48
2608	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
2609	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-013	3878130	(Z83112) predicted using Genefinder	9
2610	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.3

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2611	D14965	C.elegans gene for alpha-2 tubulin, complete cds	3.7	<NONE>	<NONE>	<NONE>
2612	Z61840	H.sapiens CpG DNA, clone 59g12, forward read cpg59g12.ft1a .	2e-080	3581872	(AL031541) putative integral membrane protein [Streptomyces coelicolor]	1.4
2613	U59924	Sus scrofa nitric oxide synthase (NOS) mRNA, complete cds	1.1	<NONE>	<NONE>	<NONE>
2614	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
2615	AF054625	Reporter vector pSRF-Luc, complete sequence	4e-065	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
2616	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.1
2617	AF031924	Homo sapiens homeobox transcription factor barx2	e-161	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
2618	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
2619	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
2620	AF053461	Reporter vector pCRE-Luc, complete sequence	1e-013	1065484	(U40415) similar to S. cerevisiae LAG1 (SP:P38703)	0.49
2621	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete	1e-009	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
2622	AF013758	Homo sapiens polyadenylate binding protein-interacting protein-1 (PAIP1) mRNA, complete cds	0	3046900	(AF013758) polyadenylate binding protein-interacting protein-1 [Homo sapiens]	3e-072
2623	D29808	Human mRNA for T-cell acute lymphoblastic leukemia associated antigen 1 (TALLA-1), complete cds	0.014	<NONE>	<NONE>	<NONE>
2624	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	2690005	(AE000794) B. burgdorferi predicted coding region BBF30	7.6
2625	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.041	<NONE>	<NONE>	<NONE>
2626	Z12112	pWE15A cosmid vector DNA	2e-067	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-008
2627	AB018326	Homo sapiens mRNA for KIAA0783 protein, complete cds	0	3882287	(AB018326) KIAA0783 protein [Homo sapiens]	1e-073
2628	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4
2629	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-016	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2630	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	1001632	(D64002) hypothetical protein	3.2
2631	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.29
2632	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
2633	X05167	Barley gene for thiol protease aleurain	0.13	1065515	(U40420) weak similarity to procollagen alpha chain 1(V) chain [Caenorhabditis elegans]	9e-018
2634	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	2e-060	987050	(X65335) lacZ gene product [unidentified cloning vector]	5e-010
2635	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	123432	ZERKNUELLT PROTEIN 1 (ZEN-1)	3.4
2636	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	123432	ZERKNUELLT PROTEIN 1 (ZEN-1)	3.4
2637	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.5
2638	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2639	AF103734	Sindbis-like virus YN87448, complete genome	3.5	<NONE>	<NONE>	<NONE>
2640	M27280	H.influenzae lic-1 operon licA, licB, licC and licD genes, encoding outer membrane lipopolysaccharide phase variation, complete cds.	3.4	2529686	(AC002535) putative G-beta-repeat containing protein, 5' partial [Arabidopsis thaliana]	6e-018
2641	AF103734	Sindbis-like virus YN87448, complete genome	3.5	<NONE>	<NONE>	<NONE>
2642	X05167	Barley gene for thiol protease aleurain	0.13	1065515	(U40420) weak similarity to procollagen alpha chain 1(V) chain [Caenorhabditis elegans]	9e-018
2643	L76159	Homo sapiens FRG1 mRNA, complete cds.	4e-032	1246233	(L76159) FRG1 gene product [Homo sapiens]	1e-005
2644	AF086047	Homo sapiens full length insert cDNA clone YX84A05	3e-008	628916	Delta-12 desaturases - Anabaena variabilis desaturase [Anabaena variabilis]	6
2645	AF086136	Homo sapiens full length insert cDNA clone ZA89C06	4e-021	3849864	(AJ007629) pall protein [Emericella nidulans]	4.6
2646	AB004818	Homo sapiens mRNA for ENX-2, complete cds	1e-011	<NONE>	<NONE>	<NONE>
2647	D87686	Homo sapiens mRNA for KIAA0017 protein, complete cds	e-165	3540219	(D87686) KIAA0017 protein [Homo sapiens]	5e-054
2648	Z49218	S.cerevisiae chromosome XIII cosmid 7056	0.002	2984715	(AF053957) dynamin associated protein isoform Dap160-1	0.33

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2649	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	868241	(U29488) C56C10.3 gene product [Caenorhabditis elegans]	7e-030
2650	D38417	Mouse mRNA for arylhydrocarbon receptor, complete cds	3e-028	<NONE>	<NONE>	<NONE>
2651	L29252	Human (clone D13-2) L-iditol-2 dehydrogenase gene, exon 4, exon 5, exon 6 and exon 7.	0.35	<NONE>	<NONE>	<NONE>
2652	U29171	Human casein kinase I delta mRNA, complete cds >	3e-063	1176666	HYPOTHETICAL 139.1 KD PROTEIN C08B11.3 IN CHROMOSOME II >gi|3874171|gnl|PID|e1343795 proteins; cDNA EST EMBL:T01154 comes from this gene; cDNA EST EMBL:T02016 comes from this gene; cDNA EST EMBL:D34307 comes from this gene; cDNA EST EMBL:D37339 comes from	6.8
2653	U63648	Mus musculus p160 myb-binding protein (P160) mRNA, complete cds	6e-058	2645205	(U63648) p160 myb-binding protein [Mus musculus]	2e-038
2654	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
2655	Y11740	H.sapiens whn gene, exon 1a and 1b	0.12	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2656	D26179	Rat mRNA for V-1 protein, complete cds	2e-005	3879121	(Z70310) predicted using Genefinder; Similarity to Mouse ankyrin (PIR Acc. No. S37771); cDNA EST EMBL:T01923 comes from this gene; cDNA EST EMBL:D32335 comes from this gene; cDNA EST EMBL:D32723 comes from this gene; cDNA ES... Genefinder; Similarity to M	8e-087
2657	U67518	Methanococcus jannaschii section 60 of 150 of the complete genome	1.2	3876465	(Z81071) predicted using Genefinder; Similarity to Human small nuclear ribonucleoprotein E cDNA EST yk375g7.5 comes from this gene; cDNA EST yk435f5.3 comes from this gen...	6e-011
2658	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
2659	U83176	Mus musculus ROSA 26 transcription AS ROSA26AS mRNA, complete cds	0	1778861	(U83176) ROSA26AS [Mus musculus]	e-101
2660	AB018374	Mus musculus GARP34 mRNA, complete cds	2e-065	3724364	(AB018374) GARP34 [Mus musculus]	7e-010
2661	AB018374	Mus musculus GARP34 mRNA, complete cds	2e-065	3724364	(AB018374) GARP34 [Mus musculus]	7e-010

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2662	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.6
2663	AL022168	Human DNA sequence from clone U247E12 on chromosome Xq22-23, complete sequence [Homo sapiens]	8e-008	<NONE>	<NONE>	<NONE>
2664	M10277	Human cytoplasmic beta-actin gene, complete cds.	5e-063	<NONE>	<NONE>	<NONE>
2665	D83769	Homo sapiens DNA, corresponding sequence for DHFR	5e-014	763429	(U22961) putative ORF; similar in part to the product encoded by human glycerol-3-phosphate dehydrogenase mRNA, GenBank Accession Number L34041; Method: conceptual translation supplied by author [Homo sapiens]	5.9
2666	U15426	Human anonymous mRNA sequence with CCA repeat region.	3e-071	1065484	(U40415) similar to S. cerevisiae LAG1 (SP:P38703)	3e-015
2667	AF032900	Homo sapiens timing protein CLK-1 mRNA, complete cds	0	3811295	(AF032900) timing protein CLK-1; ubiquinone biosynthesis protein COQ7 [Homo sapiens]	3e-061
2668	L39210	Homo sapiens inosine monophosphate dehydrogenase type II gene, complete cds	e-111	2887425	(AB007885) KIAA0425 [Homo sapiens]	3e-036

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2669	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7.00E-07	<NONE>	<NONE>	<NONE>
2670	X93016	S.scrofa mRNA for cytosolic malic enzyme NADP-dependent	5e-045	101706	hypothetical protein 2 - yeast (Saccharomyces kluyveri) plasmid pSKL >gi|4870 (X54850) ORF 2, has similarity to DNA polymerase [Saccharomyces kluyveri]	7.7
2671	J03068	Human DNF1552 (lung) mRNA, complete cds.	0.041	2414623	(Z99259) putative phosphotransferase	7e-021
2672	X81372	H.sapiens mRNA for biphenyl hydrolase-related protein	2e-016	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.0001
2673	AB012130	Homo sapiens SBC2 mRNA for sodium bicarbonate cotransporter2, complete cds	0.00E+00	3097316	(AB012130) sodium bicarbonate cotransporter2 [Homo sapiens]	3e-045
2674	D83769	Homo sapiens DNA, corresponding sequence for DHFR	5e-014	763429	(U22961) putative ORF; similar in part to the product encoded by human glycerol-3-phosphate dehydrogenase mRNA, GenBank Accession Number L34041; Method: conceptual translation supplied by author [Homo sapiens]	5.9
2675	D38522	Human mRNA for KIAA0080 gene, partial cds	1e-022	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.002
2676	D38522	Human mRNA for KIAA0080 gene, partial cds	1e-022	728831	!!!! ALU SUBFAMILY J WARNING	0.002

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					ENTRY	
2677	AF072810	Homo sapiens transcription factor WSTF mRNA, complete cds	0	4049922	(AF072810) transcription factor WSTF [Homo sapiens]	1e-070
2678	U41767	Human metargidin precursor mRNA, complete cds	e-130	1235674	(U41767) metargidin precursor [Homo sapiens]	1.00E-02
2679	L81613	Homo sapiens (subclone 4_c7 from P1 H17) DNA sequence	0.38	<NONE>	<NONE>	<NONE>
2680	M68841	Human L1 repetitive sequence with a region homologous to a mouse ORF.	9.00E-30	106322	hypothetical protein (L1H 3' region) - human	8e-008
2681	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
2682	D87973	Mus musculus Impact mRNA, complete cds	0	4038076	(D87973) Impact [Mus musculus]	1e-095
2683	M69175	Human H-protein mRNA, complete cds.	2e-017	<NONE>	<NONE>	<NONE>
2684	Z80361	H.sapiens HLA-DRB pseudogene, repeat region;	1e-082	1706108	MITOCHONDRIAL CARNITINE O-PALMITOYLTRANSFERASE I, LIVER ISOFORM (CPT I) (CPTI-L) carnitine palmitoyltransferase I [Homo sapiens] I [Homo sapiens]	0.67

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2685	AF017044	Dictyostelium discoideum LTR-retrotransposon Skipper, partial genomic sequence, 3' end	0.014	<NONE>	<NONE>	<NONE>
2686	U40825	Mus musculus WW-domain binding protein 1 mRNA, complete cds	e-118	1777577	(U40825) WW-domain binding protein 1 [Mus musculus]	2.00E-29
2687	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	2281149	(U58553) maturase [Carum carvi]	4.6
2688	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	3328840	(AE001314) Putative outer membrane protein A [Chlamydia trachomatis]	5.8
2689	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2690	AB012130	Homo sapiens SBC2 mRNA for sodium bicarbonate cotransporter2, complete cds	0.00E+00	3097316	(AB012130) sodium bicarbonate cotransporter2 [Homo sapiens]	3e-045
2691	X69516	H.sapiens gene for folate receptor	3e-008	<NONE>	<NONE>	<NONE>
2692	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5.00E-04	1203965	(L42379) bone-derived growth factor [Homo sapiens]	0.17
2693	Z15027	H.sapiens HLA class III DNA	3.00E-07	728836	!!!! ALU SUBFAMILY SP WARNING ENTRY	3.6
2694	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-006	<NONE>	<NONE>	<NONE>
2695	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-006	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2696	X77775	G.gallus Gal beta 1, 3 GalNAc-specific GalNAc alpha 2, 6-sialyltransferase mRNA.	1e-022	3873839	(Z81029) W05H12.2 [Caenorhabditis elegans] >gi|3880545|gnl|PID|e1350077 (Z82072) W05H12.2	5.9
2697	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	2281149	(U58553) maturase [Carum carvi]	4.6
2698	U33005	Mus musculus tbc1 mRNA, complete cds. > :: gb|I86429|I86429 Sequence 1 from patent US 5700927	3e-093	3893077	(Y17923) lyncein [Bos taurus]	1e-040
2699	U74651	Human DNA polymerase gamma (polg) gene, promoter region and partial cds	1e-022	113667	!!!! ALU CLASS B WARNING ENTRY !!!!	0.002
2700	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-009	3064257	(AF043899) amphiphysin IIc1 [Homo sapiens]	0.87
2701	U43893	Mus musculus ATP synthase gamma-subunit gene, nuclear gene encoding a mitochondrial protein, partial cds	0.005	3929529	(AF034611) intrinsic factor-B12 receptor precursor; cubilin [Homo sapiens]	0.67
2702	U43893	Mus musculus ATP synthase gamma-subunit gene, nuclear gene encoding a mitochondrial protein, partial cds	0.005	3929529	(AF034611) intrinsic factor-B12 receptor precursor; cubilin [Homo sapiens]	0.67

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2703	M30704	Human amphiregulin (AR) mRNA, complete cds, clones lambda-AR1 and lambda-AR2.	0	113754	AMPHIREGULIN PRECURSOR (AR)	4e-041
2704	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-010	<NONE>	<NONE>	<NONE>
2705	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
2706	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2832664	(AL021710) pollen-specific protein - like [Arabidopsis thaliana]	8e-020
2707	U00684	Human unknown mRNA.	2e-038	2500412	30S RIBOSOMAL PROTEIN S6 Mycoplasma pneumoniae (SGC3) (ATCC 29342) >gi|1674305 similar to Swiss-Prot Accession Number P02358, from E. coli [Mycoplasma pneumoniae]	1.3
2708	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-015	108693	glutamic acid-rich protein, retinal - bovine taurus]	0.067
2709	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	79703	hypothetical 32K protein (frxC 5' region) - Synechocystis sp. (PCC 6803) >gi|217091|gnl|PID|d1001745	0.8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2710	AF083395	Homo sapiens phospholipase A2-activating protein mRNA, complete cds	e-175	4106818	(AF083395) phospholipase A2-activating protein [Homo sapiens]	4e-039
2711	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-011	<NONE>	<NONE>	<NONE>
2712	AB019488	Homo sapiens DNA for TRKA, exon 17 and complete cds	0	37403	(X03541) trk gene product (aa 1-641) [Homo sapiens]	1e-032
2713	X62570	H.sapiens mRNA for IFP53	e-105	32709	(X62570) IFP53 [Homo sapiens]	6e-033
2714	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	1170056	GENERAL SECRETION PATHWAY PROTEIN F	4.3
2715	AF031924	Homo sapiens homeobox transcription factor barx2	e-161	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
2716	AF031924	Homo sapiens homeobox transcription factor barx2	e-161	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
2717	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4
2718	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4
2719	L20826	Human I-plastin mRNA, complete cds.	e-163	2493466	I-PLASTIN (INTESTINE-SPECIFIC PLASTIN) >gi|1362892|pir||A 56536 plastin, intestine-specific - human >gi|405230 (L20826) I-plastin	6e-069

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2720	Z54386	H.sapiens CpG DNA, clone 10g3, forward read cpg10g3.ft1a .	7e-059	1788180	(AE000281) biotin sulfoxide reductase 2 [Escherichia coli]	5.8
2721	AF086201	Homo sapiens full length insert cDNA clone ZC42G09	1e-085	2564332	(AB006630) KIAA0292 [Homo sapiens]	5.4
2722	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.12
2723	AJ006267	Homo sapiens mRNA for ClpX-like protein	0	3688380	(AJ006267) ClpX-like protein [Homo sapiens]	1e-091
2724	AF064801	Homo sapiens multiple membrane spanning receptor TRC8 (TRC8) mRNA, complete cds	0	3395787	(AF064801) multiple membrane spanning receptor TRC8	e-123
2725	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	2599526	(AF029331) immunoglobulin heavy chain V region [Homo sapiens]	4.2
2726	Y08013	S.salar DNA segment containing GT repeat	0.006	<NONE>	<NONE>	<NONE>
2727	Y08013	S.salar DNA segment containing GT repeat	0.006	<NONE>	<NONE>	<NONE>
2728	AE000971	Archaeoglobus fulgidus section 136 of 172 of the complete genome	0.041	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2729	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	1170586	RAS GTPASE-ACTIVATING-LIKE PROTEIN IQGAP1 (P195) (KIAA0051) >gi|627594|pir||A54854 Ras GTPase activating-related protein - human sapiens] >gi|536844 (L33075) ras GTPase-activating-like protein [Homo sapiens]	9e-011
2730	M60858	Human nucleolin gene, complete cds.	e-129	<NONE>	<NONE>	<NONE>
2731	M85145	Human tumor necrosis factor receptor, 3' flank.	2e-007	<NONE>	<NONE>	<NONE>
2732	M85145	Human tumor necrosis factor receptor, 3' flank.	2e-007	<NONE>	<NONE>	<NONE>
2733	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-013	<NONE>	<NONE>	<NONE>
2734	L07063	Mus musculus FKBP65 binding protein mRNA, complete cds	6e-089	2137294	FKBP65 binding protein - mouse >gi|894162	6e-024
2735	X63432	H.sapiens ACTB mRNA for mutant beta-actin	e-112	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-014
2736	AF083395	Homo sapiens phospholipase A2-activating protein mRNA, complete cds	0	4106818	(AF083395) phospholipase A2-activating protein [Homo sapiens]	1e-094
2737	AJ012449	Homo sapiens mRNA for NS1-binding protein	3e-009	3165570	(AF067946) similar to Drosophila ring canal protein	4e-032

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2738	M27878	Human DNA binding protein (HPF2) mRNA, complete cds.	3e-063	3702137	(AL031393) dJ733D15.1 (Zinc-finger protein) [Homo sapiens]	1e-040
2739	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2740	Y15230	Homo sapiens pygl gene, exon 5 and partial intron 4 and 5	e-166	3170407	(AF046798) glycogen phosphorylase [Homo sapiens]	1e-044
2741	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	1e-053	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-005
2742	M90058	Human serglycin gene, exons 1,2, and 3.	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	8.8
2743	X69878	H.sapiens Flt4 mRNA for transmembrane tyrosine kinase	2e-088	<NONE>	<NONE>	<NONE>
2744	X69878	H.sapiens Flt4 mRNA for transmembrane tyrosine kinase	2e-088	<NONE>	<NONE>	<NONE>
2745	AB007923	Homo sapiens mRNA for KIAA0454 protein, partial cds	0	3413870	(AB007923) KIAA0454 protein [Homo sapiens]	1e-098
2746	AF042181	Homo sapiens testis-specific Y-encoded-like protein (TSPYL) mRNA, partial cds	2e-047	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3
2747	AL021173	Caenorhabditis elegans cosmid VK10D6R, complete sequence [Caenorhabditis elegans]	1.2	<NONE>	<NONE>	<NONE>
2748	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.12

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2749	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-008	<NONE>	<NONE>	<NONE>
2750	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-008	<NONE>	<NONE>	<NONE>
2751	M22970	Human pancreatic phospholipase A-2 (PLA-2) gene, exons 1 to 3.	1e-032	113671	!!!! ALU CLASS F WARNING ENTRY !!!!	3e-006
2752	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
2753	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-011	3219914	HYPOTHETICAL 16.8 KD PROTEIN C30D10.04 IN CHROMOSOME II >gi|2276353|gnl|PID|e330328 pombe]	1e-011
2754	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	3875246	(Z81490) similar to WD domain, G-beta repeats (2 domains); cDNA EST EMBL:T00482 comes from this gene; cDNA EST EMBL:T00923 comes from this gene; cDNA EST yk449d4.3 comes from this gene; cDNA EST yk449d4.5 comes from this gen...	6e-078

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2755	D79205	Human mRNA for ribosomal protein L39, complete cds	1e-086	1173044	60S RIBOSOMAL PROTEIN L39 norvegicus] >gi|1373419 (U57846) ribosomal protein L39 ribosomal protein L39 [Homo sapiens]	4e-009
2756	AB014591	Homo sapiens mRNA for KIAA0691 protein, complete cds	0	3327196	(AB014591) KIAA0691 protein [Homo sapiens]	1e-047
2757	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	115409	CUTICLE COLLAGEN ROL-6 elegans] >gi|3879235|gnl|PID|e1348932 (Z66499) similar to cuticle collagen ROL-6; cDNA EST cm10c4 comes from this gene; cDNA EST EMBL:M88874 comes from this gene; cDNA EST yk265e2.3 comes from this gene; cDNA EST yk265e2.5 comes fro	0.031
2758	U78096	Human macrophage colony stimulating factor receptor (c-fms) gene, exon 1A, 2 and partial cds	4e-012	126296	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG protein [Nycticebus coucang]	0.0005
2759	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2760	M27878	Human DNA binding protein (HPF2) mRNA, complete cds.	3e-063	3702137	(AL031393) dJ733D15.1 (Zinc-finger protein) [Homo sapiens]	1e-040
2761	U43076	Mus musculus cdc37 homolog mRNA, complete cds	2e-017	755484	(U20281) cell division cycle control protein 37 [Gallus gallus]	8e-022
2762	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
2763	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	1171883	SODIUM-INDEPENDENT ORGANIC ANION TRANSPORTER (ORGANIC ANION TRANSPORTING POLYPEPTIDE) anion - rat >gi|410311 (L19031) oatp [Rattus norvegicus]	2e-036
2764	X54452	D.discoideum culmination spiA (Dd31) gene	3.3	<NONE>	<NONE>	<NONE>
2765	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>
2766	AF053698	Reporter vector pAP1-Luc, complete sequence	3e-019	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.2
2767	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	3582428	(AB017257) glycocyamine kinase beta chain [Neanthes diversicolor]	4.3
2768	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2769	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial	6e-006	3511122	(AF060503) zinc finger protein [Homo sapiens]	5.3

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
2770	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
2771	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
2772	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
2773	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-013	804788	(M13002) 2855 is the position of the first start codon in ORF 2; putative [Mus musculus]	0.64
2774	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-008	<NONE>	<NONE>	<NONE>
2775	M86526	Rat proline-rich protein (PRP) gene, 5' end, and containing several Alu-like repetitive elements.	0.37	<NONE>	<NONE>	<NONE>
2776	Z22923	M.musculus alpha2 (IX) collagen gene, complete CDS.	0.002	<NONE>	<NONE>	<NONE>
2777	Z22923	M.musculus alpha2 (IX) collagen gene, complete CDS.	0.002	<NONE>	<NONE>	<NONE>
2778	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2779	Z74035	Caenorhabditis elegans cosmid F47G9, complete sequence [Caenorhabditis elegans] -	3.4	2879805	(AL021813) hypothetical protein	5.7
2780	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
2781	AG001356	Homo sapiens genomic DNA, 21q region, clone: 9H11BG25	2e-015	<NONE>	<NONE>	<NONE>
2782	D83006	Saccharomyces cerevisiae MNN4 gene, complete cds	1.2	<NONE>	<NONE>	<NONE>
2783	Z59640	H.sapiens CpG DNA, clone 167g11, forward read cpg167g11.ft1b .	0.12	<NONE>	<NONE>	<NONE>
2784	AF049069	Pinus radiata PRE87 mRNA, complete cds	1.1	1518141	(U66568) myocyte enhancer factor 2A MEF2A [Danio rerio]	3.1
2785	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4
2786	AF031931	Hydra oligactis cyclic GMP-dependent protein kinase (hyGK) mRNA, complete cds	0.13	<NONE>	<NONE>	<NONE>
2787	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	3e-041	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.015

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2788	L48716	Homo sapiens galactose-1-phosphate uridyl transferase (GALT) mutant F117S gene, exons 3 and 4	1.1	77657	hypothetical 30.1K protein - Pseudomonas aeruginosa	0.095
2789	U73902	Mus musculus emerin (Sta) mRNA, complete cds	0.37	529773	(U06752) Heterodimeric complex composed of a mucin subunit, ASGP-1, which is predominantly O-glycosylated, and a cysteine-rich transmembrane subunit, ASGP-2, which is predominantly N-glycosylated [Rattus norvegicus]	0.009
2790	X54171	H.sapiens NG2-6 DNA	4e-021	<NONE>	<NONE>	<NONE>
2791	M30519	Mouse mammary tumor virus gag gene, 3' end, pol gene, 5' end.	0.12	1262926	(U51903) RasGAP-related protein [Homo sapiens]	4.3
2792	AJ223355	Rattus norvegicus mRNA for mitochondrial dicarboxylate carrier	0.38	128059	NEGATIVE FACTOR (F-PROTEIN) (27 KD PROTEIN) (3'ORF) >gi|77283|pir||S07 993 nef protein - simian immunodeficiency virus SIVsm (isolate F236) immunodeficiency virus]	2
2793	AF086022	Homo sapiens full length insert cDNA clone YW23E02	6e-005	3402679	(AC004697) unknown protein [Arabidopsis thaliana]	9e-016
2794	U47322	Cloning vector DNA, complete sequence.	9e-010	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2795	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	3873667	(Z71178) similar to collagen	0.093
2796	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2745961	(U51869) Bcd orf2 [Homo sapiens]	0.47
2797	AF041209	Homo sapiens midline 1 fetal kidney isoform 2	0.0002	<NONE>	<NONE>	<NONE>
2798	AF092564	Homo sapiens chromosome-associated protein-C	5e-056	4092846	(AB019987) chromosome-associated polypeptide-C [Homo sapiens]	3e-017
2799	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
2800	M95623	Homo sapiens hydroxymethylbilane synthase gene, complete cds.	0.005	4007760	(AL034433) importin alpha subunit	4.2
2801	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
2802	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	1065945	(U40799) coded for by C. elegans cDNA yk28f2.3; coded for by C. elegans cDNA yk12c10.3; coded for by C. elegans cDNA yk5a12.3; coded for by C. elegans cDNA yk49a8.3; coded for by C. elegans cDNA yk12c10.5; coded for by C. elegans cDNA yk28f2...	0.12

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2803	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.04	<NONE>	<NONE>	<NONE>
2804	M74558	Human SIL mRNA, complete cds. > :: gb|G28581|G28581 human STS SHGC-35335.	e-126	<NONE>	<NONE>	<NONE>
2805	M72885	Human GOS2 gene, 5' flank and cds.	0.36	3873821	(Z68213) cDNA EST yk266c4.5 comes from this gene; cDNA EST yk266c4.3 comes from this gene	1.8
2806	U27341	Bos taurus endothelin converting enzyme-2 Sequence 1 from patent US 5736376	6e-078	2136744	endothelin converting enzyme-2 - bovine	3e-028
2807	U36756	Mus musculus thrombin receptor (Cf2r) gene, exon 1	0.013	<NONE>	<NONE>	<NONE>
2808	AJ003209	Human immunodeficiency virus type 1 mRNA for reverse transcriptase, isolate H-20, partial	0.12	<NONE>	<NONE>	<NONE>
2809	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
2810	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-009	1272701	(L11900) cytochrome b [Cratogeomys bulleri]	9.3

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2811	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
2812	AB006572	Homo sapiens RMP mRNA for RPB5 meidating protein, complete cds	0	3970833	(AB006572) RPB5 meidating protein [Homo sapiens]	5e-037
2813	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	1109865	(U41540) coded for by C. elegans cDNA yk42d12.5; coded for by C. elegans cDNA yk27e10.5; coded for by C. elegans cDNA cm08h6; coded for by C. elegans cDNA yk88e12.5; coded for by C. elegans cDNA yk42d12.3; coded for by C. elegans cDNA yk27e1...	2e-009
2814	Z26259	H.sapiens isoform 1 gene for L-type calcium channel, exon 4	3e-029	3426264	(AF037269) cell division protein [Mycobacterium smegmatis]	0.47
2815	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	2358285	(AF010403) ALR [Homo sapiens]	0.27
2816	AC004498	Homo sapiens chromosome 5, P1 clone 1209C1 (LBNL H104), complete sequence [Homo sapiens]	2e-006	<NONE>	<NONE>	<NONE>
2817	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2818	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	2e-018	2197085	(AF003535) ORF2-like protein [Homo sapiens]	0.0002
2819	Z96402	H.sapiens telomeric DNA sequence, clone 18QTEL022, read 18QTELOO022.seq	0.001	386792	(M32334) intercellular adhesion molecule 2 (ICAM-2) [Homo sapiens]	9.2
2820	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	2e-018	2197085	(AF003535) ORF2-like protein [Homo sapiens]	0.0002
2821	U66534	Human beta4-integrin (ITGB4) gene, exon 14,15,16,17 and 18	0.12	<NONE>	<NONE>	<NONE>
2822	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2
2823	AC001462	Homo sapiens (subclone 2_h10 from BAC H107) DNA sequence	3e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	7.1
2824	AE000464	Escherichia coli K-12 MG1655 section 354 of 400 of the complete genome	6e-005	3879850	(Z81592) predicted using Genefinder	2e-039
2825	AB018304	Homo sapiens mRNA for KIAA0761 protein, partial cds	3e-009	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2826	AL008982	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-52, complete sequence	3.2	3880930	(AL021481) similar to Phosphoglucomutase and phosphomannomutase phosphoserine; cDNA EST EMBL:D36168 comes from this gene; cDNA EST EMBL:D70697 comes from this gene; cDNA EST yk373h9.5 comes from this gene; cDNA EST EMBL:T008...	5e-053
2827	Z54196	S.cereale DNA for repeat unit (D1100 family)	0.36	2500714	HYPOTHETICAL 35.0 KD PROTEIN F48E8.1 IN CHROMOSOME III >gi|746485 (U23514) similar to antigen domain of venom allergen (SP:VA52_DOLMA, P10736) and to antigen 5 (PIR:A37329) [Caenorhabditis elegans]	4.1
2828	Z95979	Homo sapiens hRED1 gene, exons 7, 8, 9 and 10	7e-017	113668	!!!! ALU CLASS C WARNING ENTRY !!!!	0.002
2829	Z15030	H.sapiens gene for ventricular myosin light chain 2 > :: gb|L01652|HUMVMLC Human ventricular myosin light chain 2 gene, seven exons.	5e-024	565265	(M76741) biliary glycoprotein [Homo sapiens]	9.2
2830	U56440	Human His-1 gene sequence	8e-007	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2831	AF009941	Tomocichla tuba cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, complete cds	1.2	<NONE>	<NONE>	<NONE>
2832	X68011	H.sapiens ZNF81 gene	3e-030	1731442	ZINC FINGER PROTEIN 81 human (fragment) >gi|454325 (X68011) ZNF81 gene product	1e-020
2833	U36499	Human lymphoid-specific SP100 homolog (LYSP100-A) mRNA, complete cds	1e-020	<NONE>	<NONE>	<NONE>
2834	Z60692	H.sapiens CpG DNA, clone 31f7, reverse read cpg31f7.rt1a .	3e-059	<NONE>	<NONE>	<NONE>
2835	X92485	P.vivax pval gene	0.0002	<NONE>	<NONE>	<NONE>
2836	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	576257	Prostatic Acid Phosphatase (E.C.3.1.3.2) Complexed With Tartaric Acid >gi|576258|pdb|1RPT| Prostatic Acid Phosphatase (E.C.3.1.3.2) Complexed With Vanadate	3e-009

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2837	U72372	Scandia geniculata 18S ribosomal RNA and 25S ribosomal RNA genes, partial sequence, and internal transcribed spacer 1, 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence	0.12	<NONE>	<NONE>	<NONE>
2838	D49425	Anabaena variabilis rbpD gene for RNA-binding protein, complete cds	3.2	<NONE>	<NONE>	<NONE>
2839	X95844	S.cerevisiae POP3 gene	3.5	<NONE>	<NONE>	<NONE>
2840	AE001425	Plasmodium falciparum chromosome 2, section 62 of 73 of the complete sequence	0.041	3880909	(AL032636) Y40B1B.3 [Caenorhabditis elegans]	5.5
2841	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
2842	X69064	M.musculus Ank-1 mRNA for erythroid ankyrin	1.3	<NONE>	<NONE>	<NONE>
2843	U61950	Caenorhabditis elegans cosmid C45E5	0.13	<NONE>	<NONE>	<NONE>
2844	U73332	Human non-coding genomic sequence upstream from unique L0 sequence in the alpha-globin gene cluster	1e-010	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2845	U21051	Human G protein-coupled receptor (GPR4) gene, complete cds.	0.13	<NONE>	<NONE>	<NONE>
2846	X57921	O.sativa random single-copy DNA fragment 12RG214R	4.1	<NONE>	<NONE>	<NONE>
2847	AF037219	Homo sapiens PIX1 mRNA sequence	0.043	<NONE>	<NONE>	<NONE>
2848	M55124	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 17b	0.005	<NONE>	<NONE>	<NONE>
2849	AF035527	Mus musculus EHF (Ehf) mRNA, complete cds	e-164	3138930	(AF035527) EHF [Mus musculus]	5e-084
2850	AF052695	Rattus norvegicus cell cycle protein p55CDC gene, complete cds	3.7	2894379	(Y14573) ring finger protein [Hordeum vulgare]	8.2
2851	<NONE>	<NONE>	<NONE>	3327112	(AB014549) KIAA0649 protein [Homo sapiens]	3.8
2852	M34664	Human chaperonin (HSP60) mRNA, complete cds.	0	2501737	TRANSCRIPTIONAL ACTIVATOR PROTEIN ACU-15 >gi|1922895|gnl|PID|e308394 (Y11565) transcriptional activator protein [Neurospora crassa]	4.4
2853	D49701	Aspergillus oryzae niaD gene for nitrate reductase, complete cds	0.042	3879556	(Z70756) T06E4.11 [Caenorhabditis elegans]	0.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2854	AF016266	Homo sapiens TRAIL receptor 2 mRNA, complete cds	1e-010	134846	SMALL PROLINE-RICH PROTEIN II rich protein [Homo sapiens]	1.5
2855	U44862	Human Down Syndrome region of chromosome 21, clone A11E6-2B6.	1.2	<NONE>	<NONE>	<NONE>
2856	X14503	Chlamydomonas eugametos petD gene for cytochrome b6/f complex subunit IV	0.13	<NONE>	<NONE>	<NONE>
2857	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	3228515	(U70256) SomA [Synechococcus PCC6301]	4.6
2858	M25534	Chicken actin-capping protein (CapZ 36/32) alpha subunit mRNA, complete cds.	0.41	<NONE>	<NONE>	<NONE>
2859	X84372	D.melanogaster lethal(3)73Ah gene	1.1	<NONE>	<NONE>	<NONE>
2860	AF053551	Homo sapiens metaxin 2 (MTX2) mRNA, nuclear gene encoding mitochondrial protein, complete cds	0	3283049	(AF053551) metaxin 2 [Homo sapiens]	2e-089
2861	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	3877358	(Z66520) similar to RBB3 like protein; cDNA EST EMBL:C08891 comes from this gene; cDNA EST EMBL:C09371 comes from this gene; cDNA EST yk468f10.5 comes	3e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					from this gene [Caenorhabditis elegans]	
2862	AB002450	Homo sapiens mRNA from chromosome 5q21-22, clone:A3-A	2e-014	3790760	(AF099922) No definition line found [Caenorhabditis elegans]	2.5
2863	AF053698	Reporter vector pAP1-Luc, complete sequence	1e-009	<NONE>	<NONE>	<NONE>
2864	AF045086	Drosophila prosaltans 14045-0901.4 cytochrome oxidase II (COII) gene, mitochondrial gene encoding mitochondrial protein, complete cds	0.005	<NONE>	<NONE>	<NONE>
2865	Y09312	C.botulinum HA-70 gene (partial) and HA-17 gene	0.002	1171601	(X95276) rps8 [Plasmodium falciparum]	5.7
2866	AJ001597	Homo sapiens gene encoding cAMP-dependent protein kinase gamma isoform	0.005	1869883	(Z86099) RS1 [human herpesvirus 2] herpesvirus 2]	0.52
2867	AF022962	Mus musculus Sec8 mRNA, complete cds	1.1	<NONE>	<NONE>	<NONE>
2868	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	2499622	PROBABLE SERINE/THREONINE-PROTEIN KINASE YOL113W (PROTEIN KINASE 75490	3.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					D)	
2869	AJ005262	Dictyostelium discoideum gene encoding a novel glycoprotein	0.12	<NONE>	<NONE>	<NONE>
2870	U08214	Rattus sp. DNA binding protein (URE-B1) mRNA, complete cds.	0.12	4033834	(AJ009556) cytoskeleton assembly control protein Sla2p [Candida albicans]	0.13
2871	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2872	M31061	Human ornithine decarboxylase gene, complete cds.	2e-015	3808095	(Y08560) SCO-spondin [Bos taurus]	0.098
2873	U21914	Human duplicate spinal muscular atrophy mRNA, clone 5G7, partial cds.	0.002	<NONE>	<NONE>	<NONE>
2874	<NONE>	<NONE>	<NONE>	1228047	(D83782) the KIAA0199 gene is expressed ubiquitously.; the KIAA0199 protein shows similarity to sea urchin hydroxymethylglutalyl-CoA reductase, and retains 8 hydrophobic domains. [Homo sapiens]	2.5
2875	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	4105505	(AF046914) multiple inositol polyphosphate phosphatase	5.6
2876	Z96210	H.sapiens telomeric DNA sequence, clone 12PTEL057, read 12PTELOO057.seq	0.014	2347056	(AJ000085) Nedd4 protein [Xenopus laevis]	5.8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2877	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	2133693	masquerade precursor - fruit fly (Drosophila melanogaster) >gi|665545 (U18130) masquerade [Drosophila melanogaster] >gi|1095942|prf||2110286A masquerade gene	1.2
2878	X54252	C. elegans complete mitochondrial genome	0.38	<NONE>	<NONE>	<NONE>
2879	S81913	adrenocorticotropin receptor [Papio anubis=baboons, adrenal, mRNA Partial, 426 nt]	1.2	<NONE>	<NONE>	<NONE>
2880	X65997	M.musculus c-kit mRNA for truncated tyrosine-kinase	0.13	<NONE>	<NONE>	<NONE>
2881	AE000588	Helicobacter pylori section 66 of 134 of the complete genome	1.1	<NONE>	<NONE>	<NONE>
2882	U64861	Caenorhabditis elegans cosmid C47D2.	0.12	<NONE>	<NONE>	<NONE>
2883	U23173	Caenorhabditis elegans cosmid K07E1	0.37	2854192	(AF045645) contains similarity to microsomal triglyceride transfer proteins [Caenorhabditis elegans]	7.2
2884	AB014579	Homo sapiens mRNA for KIAA0679 protein, partial cds	0	3327172	(AB014579) KIAA0679 protein [Homo sapiens]	2e-053

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2885	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	1707032	(U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8....	0.17
2886	Z22795	H.sapiens microsatellite repeat.	6e-005	<NONE>	<NONE>	<NONE>
2887	AE001061	Archaeoglobus fulgidus section 46 of 172 of the complete genome	1.1	3738162	(AL031856) putative involvement in protein glycosylation in the golgi [Schizosaccharomyces pombe]	2.4
2888	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
2889	Z96643	H.sapiens telomeric DNA sequence, clone 5QTEL064, read 5QTELOO064.seq	0.0005	1363732	probable membrane protein YLR454w - yeast	4
2890	Z96643	H.sapiens telomeric DNA sequence, clone 5QTEL064, read 5QTELOO064.seq	0.0005	1363732	probable membrane protein YLR454w - yeast	4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2891	X80169	M.musculus mRNA for 200 kD protein	e-177	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi|1083553|pir||A 55117 tsg24 protein - mouse	5e-069
2892	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-009	3832555	(AF077439) immunoglobulin heavy chain variable region	4.4
2893	AC002359	Homo sapiens Xp22 Cosmid U239B3 (from Lawrence Livermore X library) complete sequence [Homo sapiens]	2e-007	3599342	(AF081112) ORF2 [Mus musculus domesticus]	0.61
2894	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	3123058	HYPOTHETICAL WD-REPEAT PROTEIN SLL0163 >gi|1001440|gnl|PI D|d1010715 (D63999) beta transducin-like protein [Synechocystis sp.]	0.001
2895	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
2896	Z46940	H.sapiens PRM1 gene, PRM2 gene and TNP2 gene	0.013	<NONE>	<NONE>	<NONE>
2897	Z47735	H.sapiens NFKB1 gene, exons 11 & 12	2e-008	<NONE>	<NONE>	<NONE>
2898	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.004	2224611	(AB002333) KIAA0335 [Homo sapiens]	4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2899	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
2900	X00367	Chlamydomonas chloroplast DNA region with ARS element 03 (ARS = autonomously replicating sequence)	0.12	<NONE>	<NONE>	<NONE>
2901	U41222	Dictyostelium discoideum RacE (racE) gene, complete cds	0.35	<NONE>	<NONE>	<NONE>
2902	AB007504	Triticum aestivum TaMADS#11 mRNA for MADS box transcription factor, complete cds	0.042	<NONE>	<NONE>	<NONE>
2903	X65319	Cloning vector pCAT-Enhancer	7e-069	987050	(X65335) lacZ gene product [unidentified cloning vector]	7e-011
2904	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	3924670	(AC004990) supported by Genscan and several ESTs: C83049	6e-042
2905	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.041	2132051	hypothetical protein YOR083w - yeast	3.3
2906	Z12112	pWE15A cosmid vector DNA	6e-068	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-009
2907	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	2995374	(AL022245) hypothetical protein	5e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2908	U47322	Cloning vector DNA, complete sequence.	3e-009	<NONE>	<NONE>	<NONE>
2909	X71623	H.sapiens ZNF74-1 mRNA > :: gb|G27154|G27154 human STS SHGC-31580.	4e-012	113669	!!!! ALU CLASS D WARNING ENTRY !!!!	4.1
2910	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	7e-007	2394501	(AF024503) No definition line found [Caenorhabditis elegans]	9.6
2911	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.3
2912	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	2688749	(AE001179) conserved hypothetical protein [Borrelia burgdorferi]	2.3
2913	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.9
2914	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4
2915	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
2916	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.004	1209842	(U45423) minus strand repeat motif-containing gene	0.092

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2917	X80283	P.polycephalum genomic DNA containing Taq I repetitive element	3.3	<NONE>	<NONE>	<NONE>
2918	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
2919	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
2920	Z97333	Homo sapiens RHCE gene	9e-020	113667	!!!! ALU CLASS B WARNING ENTRY !!!!	4e-005
2921	AF082350	Homo sapiens bone morphogenetic protein 15 precursor (BMP15) gene, exon 2 and complete cds	1	<NONE>	<NONE>	<NONE>
2922	L14684	Rattus norvegicus nuclear-encoded mitochondrial elongation factor G mRNA, complete cds.	0	585084	ELONGATION FACTOR G, MITOCHONDRIAL PRECURSOR (MEF-G) >gi|543383|pir||S40780 translation elongation factor G, mitochondrial - rat >gi|310102	9e-089
2923	D78335	Human mRNA for 5'-terminal region of UMK, complete cds	e-163	1718058	URIDINE KINASE (URIDINE MONOPHOSPHO KINASE) >gi|471981 (L31783) uridine kinase	7e-072
2924	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2925	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-013	1351922	AMINE OXIDASE PRECURSOR (MONAMINE OXIDASE) (TYRAMINE OXIDASE) >gi|419575|pir||B41836 amine oxidase (flavin-containing) (EC 1.4.3.4) precursor - Klebsiella pneumoniae >gi|216723|gnl|PID|d1001529	5.6
2926	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
2927	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.7
2928	AB018285	Homo sapiens mRNA for KIAA0742 protein, partial cds	0	3882205	(AB018285) KIAA0742 protein [Homo sapiens]	2e-093
2929	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	3882183	(AB018274) KIAA0731 protein [Homo sapiens]	4e-049
2930	X94762	H.sapiens DNA for Ki-67 antigen 5'-region (exon 1 & 2)	2e-068	631020	Kallmann syndrome protein homolog - chicken	5.6
2931	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	3522948	(AC004411) hypothetical protein [Arabidopsis thaliana]	2e-026
2932	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
2933	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-008	<NONE>	<NONE>	<NONE>
2934	M18795	Gorilla pseudo-beta- and delta-globin gene intergenic region with 2 Alu repeats.	7e-028	<NONE>	<NONE>	<NONE>
2935	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
2936	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-007	<NONE>	<NONE>	<NONE>
2937	U09874	Mus musculus SKD3 mRNA, complete cds.	2e-086	2493735	SKD3 PROTEIN SKD3 [Mus musculus]	6e-036
2938	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
2939	D38417	Mouse mRNA for arylhydrocarbon receptor, complete cds	e-154	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
2940	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	3879062	(Z81576) predicted using Genefinder	9.2
2941	AE001368	Plasmodium falciparum chromosome 2, section 5 of 73 of the complete sequence	0.014	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2942	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
2943	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
2944	AF083322	Homo sapiens centriole associated protein CEP110 mRNA, complete cds	e-133	3435244	(AF083322) centriole associated protein CEP110 [Homo sapiens]	9e-015
2945	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	<NONE>	<NONE>	<NONE>
2946	L07040	pFNeo eukaryotic expression vector, complete sequence.	2e-038	987050	(X65335) lacZ gene product [unidentified cloning vector]	4e-005
2947	X65319	Cloning vector pCAT-Enhancer	2e-078	987050	(X65335) lacZ gene product [unidentified cloning vector]	1e-013
2948	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
2949	AL031844	Human DNA sequence from clone 361H15 on chromosome 22q13.2-13.33, complete sequence [Homo sapiens]	3.2	<NONE>	<NONE>	<NONE>
2950	AC002186	Homo sapiens (subclone 1_f12 from P1 H115) DNA sequence	2e-037	2072966	(U93570) p40 [Homo sapiens]	4e-013

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2951	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	4105414	(AF045593) ETS DNA binding protein Yan [Drosophila virilis]	1.4
2952	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	629692	hypothetical protein - common tobacco tabacum]	4.3
2953	S60885	LYAR=cell growth regulating nucleolar protein [mice, EL4 cells, mRNA, 1474 nt]	5e-035	2498524	CELL GROWTH REGULATING NUCLEOLAR PROTEIN >gi|423488|pir||A40683 cell growth regulating nucleolar protein LYAR - mouse >gi|300372|bbs|131782	5e-014
2954	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
2955	Z23090	H.sapiens mRNA for 28 kDa heat shock protein.	1e-063	1709972	60S RIBOSOMAL PROTEIN L10A (CSA-19)	3e-020
2956	X87817	M.musculus mRNA for Ulip protein	0.0005	<NONE>	<NONE>	<NONE>
2957	U87997	Enterococcus faecium enterocin B (entB) gene, complete cds	1.2	<NONE>	<NONE>	<NONE>
2958	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.001	<NONE>	<NONE>	<NONE>
2959	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2960	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3e-009	<NONE>	<NONE>	<NONE>
2961	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3e-009	<NONE>	<NONE>	<NONE>
2962	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
2963	X62025	H.sapiens rod cG-PDE G gene for 3', 5'-cyclic nucleotide phosphodiesterase	4e-034	728838	!!!! ALU SUBFAMILY SX WARNING ENTRY	9e-006
2964	AJ223364	Homo sapiens germ-line DNA upstream of Jkappa locus	1e-023	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.2
2965	Z47046	Human cosmid QLL2C9 from Xq28	3e-020	804808	(M13100) unknown protein [Rattus norvegicus]	7e-005
2966	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
2967	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	9e-009	464502	PEROXISOMAL TARGETING SIGNAL RECEPTOR (PEROXISOMAL PROTEIN PAS10) (PEROXIN-5) (PTS1 RECEPTOR) >gi|1078412|pir||A49403 tetratricopeptide-repeat protein PAS10 - yeast tetratricopeptide-	9.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					repeat protein [Saccharomyces cerevisiae] >gi|817830 (Z49701) Pas10p [Sa	
2968	AF035940	Homo sapiens MAGOH mRNA, complete cds	3e-050	2306969	(AF007860) xl-Mago [Xenopus laevis]	1e-041
2969	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2970	X66297	H.sapiens Alu repeat (terminator 3)	5e-014	<NONE>	<NONE>	<NONE>
2971	AB007934	Homo sapiens mRNA for KIAA0465 protein, partial cds	0	3413892	(AB007934) KIAA0465 protein [Homo sapiens]	e-118
2972	X15982	Ascobolus immersus DNA of linear mitochondrial plasmid pAI2 with virus like replication	0.042	<NONE>	<NONE>	<NONE>
2973	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2974	AC002181	Homo sapiens (subclone 2_a12 from BAC H111) DNA sequence	2e-014	3879351	(Z35663) Short region of similarity with glucose-6-phosphate 1-dehydrogenase from Plasmodium falciparum; cDNA EST EMBL:C12945 comes from this gene; cDNA EST yk251d3.3 comes from this gene; cDNA EST yk251d3.5 comes from this ...	0.69
2975	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
2976	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	3334221	4-HYDROXYPHENYLPYRUVATE DIOXYGENASE 4-hydroxyphenylpyruvate dioxygenase [Mycosphaerella graminicola]	2e-012
2977	S60885	LYAR=cell growth regulating nucleolar protein	8e-028	2498524	CELL GROWTH REGULATING NUCLEOLAR PROTEIN >gi|423488|pir||A40683 cell growth regulating nucleolar protein LYAR - mouse >gi|300372|bbs|131782	0.72
2978	U43958	Cloning vector pRcCMV-luc luciferase gene, complete cds	1e-010	335109	(M24873) major structural protein [Rhesus macaque polyomavirus]	1.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2979	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	399294	CYTOCHROME P450 XXIA3 (STEROID 21-HYDROXYLASE) (P450-C21) >gi|2117374|pir||A 32525 steroid 21-monooxygenase (EC 1.14.99.10) cytochrome P450 21A1 - pig >gi|164560 (M83939) steroid 21-hydroxylase	3.5
2980	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	1169449	PROBABLE EARLY E4 33 KD PROTEIN	1.9
2981	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2
2982	Z11711	H.sapiens gene for alpha-2 macroglobulin, exon 1	2e-014	728835	!!!! ALU SUBFAMILY SC WARNING ENTRY	4.2
2983	M76363	Human (Papua New Guinean) Mitochondrial DNA control region, sequence 130.	1e-053	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
2984	U21228	Promoter-probe vector pCG1408, complete sequence.	3e-049	<NONE>	<NONE>	<NONE>
2985	X52994	Sheep mRNA for CD3 gamma subunit (partial)	0.005	1084987	cryptogene protein G4 - Sauroleishmania tarentolae (strain LEM125)	2.6
2986	X52994	Sheep mRNA for CD3 gamma subunit (partial)	0.005	1084987	cryptogene protein G4 - Sauroleishmania tarentolae (strain LEM125)	2.6
2987	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2988	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
2989	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	123398	OCTAMER-BINDING TRANSCRIPTION FACTOR 1 (OTF-1) (NF-A1) >gi|104811|pir||A34873 transcription factor Oct-1, octamer-binding - chicken >gi|212467	3.2
2990	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	3881655	(Z82090) similar to Alpha-2-macroglobulin family (3 domains); cDNA EST EMBL:D67694 comes from this gene [Caenorhabditis elegans]	6e-019
2991	AB018270	Homo sapiens mRNA for KIAA0727 protein, partial cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.5
2992	U58745	Caenorhabditis elegans cosmid C10G6.	1.2	2677839	(AF023476) meltrin-L precursor [Homo sapiens]	0.24
2993	X17051	E.gracilis DNA for ribosomal protein operon	0.13	<NONE>	<NONE>	<NONE>
2994	Z14974	D.melanogaster Cpo 61.1 gene for couch potato protein.	1.1	3021409	(Y12781) transducin (beta) like 1 protein [Homo sapiens]	6e-017
2995	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-008	417442	PARA-AMINOBENZOATE SYNTHASE Streptomyces griseus >gi|388263 (M93058) p-aminobenzoic acid synthase [Streptomyces griseus]	4.2

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
2996	U11270	Human antithrombin III gene, exon 1 and partial cds.	9e-020	113670	!!!! ALU CLASS E WARNING ENTRY !!!!	0.16
2997	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	3024528	RAS-RELATED PROTEIN RAB2BV	1.1
2998	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.17
2999	U51670	Barbus barbus x Barbus meridionalis microsatellite clone no.77	0.13	<NONE>	<NONE>	<NONE>
3000	U79776	Mus musculus ajuba (Ajuba) mRNA, complete cds	4e-094	1710382	(U79776) ajuba; jub [Mus musculus]	8e-037
3001	U79776	Mus musculus ajuba (Ajuba) mRNA, complete cds	4e-094	1710382	(U79776) ajuba; jub [Mus musculus]	8e-037
3002	U79776	Mus musculus ajuba (Ajuba) mRNA, complete cds	e-100	1710382	(U79776) ajuba; jub [Mus musculus]	8e-019
3003	U79776	Mus musculus ajuba (Ajuba) mRNA, complete cds	e-100	1710382	(U79776) ajuba; jub [Mus musculus]	8e-019
3004	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	482227	hypothetical protein T07C4.9 - Caenorhabditis elegans >gi|3879509|gnl|PID|e1349070 (Z29443) similar to Annexin; cDNA EST EMBL:C10640 comes from this gene; cDNA EST EMBL:C12433 comes from this	0.64

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					gene; cDNA EST yk192f7.5 comes from this gene; cDNA EST yk318c1	
3005	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	1944590	(Z94121) hypothetical protein Rv3899c	7.8
3006	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3007	U40603	Rattus norvegicus rat-slowpoke-alpha mRNA, complete cds	0.12	1082665	oligodendrocyte-specific proline-rich protein 2 - human >gi|1408050|gnl|PID|d1006205 (D28114) MOBP [Homo sapiens]	0.22
3008	AF044081	Rattus norvegicus steroidogenic acute regulatory protein (StAR) mRNA, complete cds	1.1	2213519	(Z97050) sigG [Mycobacterium tuberculosis]	3.1
3009	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
3010	X13345	Human gene for plasminogen activator inhibitor 1	1e-009	<NONE>	<NONE>	<NONE>
3011	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	395338	(X66924) helix-loop-helix protein [Homo sapiens]	0.85

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3012	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
3013	D78335	Human mRNA for 5'-terminal region of UMK, complete cds	e-101	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2
3014	U03887	Human BXP20 gene.	6e-005	<NONE>	<NONE>	<NONE>
3015	U43194	Mus musculus rhophilin mRNA, complete cds	4e-044	1176422	(U43194) rhophilin [Mus musculus]	7e-020
3016	AC004507	Homo sapiens chromosome 5, P1 clone 798F12 (LBNL H82), complete sequence [Homo sapiens]	1.2	<NONE>	<NONE>	<NONE>
3017	X63436	B.taurus mRNA for poly(A) polymerase	0	464345	POLY(A) POLYMERASE (PAP) polynucleotide adenylyltransferase [Bos taurus]	6e-065
3018	M98512	Human NFG genomic fragment.	1e-021	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.095
3019	AJ005016	Homo sapiens mRNA for putative ABC transporter, partial	e-159	3005931	(AJ005016) ABC transporter [Homo sapiens]	2e-039
3020	AJ006778	Homo sapiens mRNA for DRIM protein	1e-053	<NONE>	<NONE>	<NONE>
3021	X65319	Cloning vector pCAT-Enhancer	3e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
3022	U14698	Human Alu-Sb2 repeat, clone HSB-8P.	1e-040	728834	!!!! ALU SUBFAMILY SB2 WARNING ENTRY	0.0001

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3023	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	3218396	(AL023860) hypothetical protein	0.0003
3024	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.20E-01	<NONE>	<NONE>	<NONE>
3025	Z59351	H.sapiens CpG DNA, clone 151a12, reverse read cpg151a12.rt1a .	3e-020	1079063	deep orange protein - fruit fly (Drosophila melanogaster) >gi|798832 (X86683) deep orange (dor)	9.90E-02
3026	AB014564	Homo sapiens mRNA for KIAA0664 protein, partial cds	e-164	2498095	5E5 ANTIGEN >gi|1085558|pir||JC4163 DNA-binding protein 5E5 - rat norvegicus] >gi|1581020|prf||2116328A DNA-binding protein 5E5 [Rattus norvegicus]	3.2
3027	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3028	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3029	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3030	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4.00E-12	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3031	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.20E-01	<NONE>	<NONE>	<NONE>
3032	AF070523	Homo sapiens JWA protein mRNA, complete cds	0.00E+00	<NONE>	<NONE>	<NONE>
3033	Z19055	B.aphidicola tryptophan operon	0.41	<NONE>	<NONE>	<NONE>
3034	Z19055	B.aphidicola tryptophan operon	0.41	<NONE>	<NONE>	<NONE>
3035	Z19055	B.aphidicola tryptophan operon	0.41	<NONE>	<NONE>	<NONE>
3036	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	7.00E-07	<NONE>	<NONE>	<NONE>
3037	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3038	AF064482	Homo sapiens natural resistance-associated macrophage protein 2 (NRAMP2) gene, exons 16 and 16A, alternatively spliced IRE form, complete cds	0	<NONE>	<NONE>	<NONE>
3039	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.20E-01	<NONE>	<NONE>	<NONE>
3041	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.38	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3042	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5.00E-03	1079063	deep orange protein - fruit fly (Drosophila melanogaster) >gi|798832 (X86683) deep orange (dor)	0.23
3043	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5.00E-03	1079063	deep orange protein - fruit fly (Drosophila melanogaster) >gi|798832 (X86683) deep orange (dor)	0.23
3044	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2.00E-05	<NONE>	<NONE>	<NONE>
3045	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3046	U63810	Homo sapiens WD40 protein Ciao 1 mRNA, complete cds	0.00E+00	3219331	(AC004020) Unknown gene product [Homo sapiens]	2e-097
3047	M21533	Human MHC class I lymphocyte antigen (HLA-E)	2e-005	120467	V-FOS/FOX TRANSFORMIN G PROTEIN murine osteosarcoma virus (provirus) (fragment)	9.9
3048	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-006	462702	NEUROFILAME NT TRIPLET H PROTEIN (200 KD NEUROFILAME NT PROTEIN) (NF-H)	2.6
3049	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3050	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.6
3051	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5.00E-04	3116127	(AL023287) hypothetical protein	6.9
3052	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7.00E-06	586875	HYPOTHETICAL 29.2 KD PROTEIN IN METS-KSGA INTERGENIC REGION >gi|2127033|pir||S 66068 hypothetical protein - Bacillus subtilis subtilis] >gi|2632306|gnl|PI D|e1181972 (Z99104) similar to hypothetical proteins [Bacillus subtilis]	2e-014
3053	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	1326350	(U58748) similar to potential transmembrane domains in S. cerevisiae nulcear division RFT1 protein (SP:P38206)	0.035
3054	Y10938	Homo sapiens retroviral-like sequence S71, 5LTR and env-like sequence	6e-016	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.4
3055	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-05	<NONE>	<NONE>	<NONE>
3056	AE000723	Aquifex aeolicus section 55 of 109 of the complete genome	1.20E+00	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3057	U18055	Lycopersicon esculentum 1-aminocyclopropane-1-carboxylate synthase (LE-ACS3) DNA, partial cds	1.10E+00	<NONE>	<NONE>	<NONE>
3058	AJ006025	Cicer arietinum mRNA for acyl-coA synthetase, partial	0.38	<NONE>	<NONE>	<NONE>
3059	AJ006025	Cicer arietinum mRNA for acyl-coA synthetase, partial	0.38	<NONE>	<NONE>	<NONE>
3060	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	<NONE>	<NONE>	<NONE>
3061	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	<NONE>	<NONE>	<NONE>
3062	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3.00E-10	3880303	(Z54238) T28C6.1 [Caenorhabditis elegans]	4.10E-02
3063	AE000723	Aquifex aeolicus section 55 of 109 of the complete genome	1.20E+00	<NONE>	<NONE>	<NONE>
3064	Y14352	Gallus gallus gene encoding neurofascin, exons 31 & 31	0.042	995644	(Z54206) UL38 [Bovine herpesvirus 1] >gi|1149580 (Z49078) UL38 [Bovine herpesvirus 1] >gi|2653309|gnl|PID|e1187305	1.9
3065	AE000723	Aquifex aeolicus section 55 of 109 of the complete genome	1.20E+00	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3066	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-03	<NONE>	<NONE>	<NONE>
3067	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-03	<NONE>	<NONE>	<NONE>
3068	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-03	<NONE>	<NONE>	<NONE>
3069	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.38	1395143	(D86080) aniline dioxygenase reductase component [Acinetobacter sp.] dioxygenase reductase component [Acinetobacter sp.]	9.00E-05
3070	AE001398	Plasmodium falciparum chromosome 2, section 35 of 73 of the complete sequence	0.0005	<NONE>	<NONE>	<NONE>
3071	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	<NONE>	<NONE>	<NONE>
3072	D16902	Human HepG2 3' region cDNA, clone hmd2h10	2.00E-49	<NONE>	<NONE>	<NONE>
3073	Z26494	S.cerevisiae genes for histone H2A and H2B, trehalase, and hexaprenyl pyrophosphate synthetase	1.1	3581891	(AL031540) hypothetical wtf3 protein	9.70E+00

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3074	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-05	2224921	(AF000606) insect intestinal mucin IIM22 [Trichoplusia ni]	1e-005
3075	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.37	<NONE>	<NONE>	<NONE>
3076	U18157	Human HLA class I genomic survey sequence.	2.00E-05	<NONE>	<NONE>	<NONE>
3077	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4.20E-02	2622750	(AE000921) DNA topoisomerase I [Methanobacterium thermoautotrophicum]	2.5
3078	AF022789	Homo sapiens ubiquitin hydrolyzing enzyme I	0.00E+00	<NONE>	<NONE>	<NONE>
3079	U18055	Lycopersicon esculentum 1-aminocyclopropane-1-carboxylate synthase (LE-ACS3) DNA, partial cds	1.10E+00	<NONE>	<NONE>	<NONE>
3080	AF022388	Caenorhabditis elegans putative transcription factor MAB-3 (mab-3) gene, complete cds	1.40E-02	3747107	(AF095741) unknown [Rattus norvegicus]	6e-012
3081	AF084594	Plasmodium falciparum erythrocyte membrane protein 1 type w (var) gene, partial cds	1.20E+00	3132802	(AF063223) pol protein [Human immunodeficiency virus type 1]	1.2
3082	D16902	Human HepG2 3' region cDNA, clone hmd2h10	2.00E-49	<NONE>	<NONE>	<NONE>
3083	X65709	A.carrageenovora gene for arylsulfatase	0.014	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3084	AF060246	Mus musculus strain C57BL/6 zinc finger protein 106 (Zfp106) mRNA, H3a-a allele, complete cds	2e-078	3372657	(AF060246) zinc finger protein 106 [Mus musculus]	1e-031
3085	AF037332	Homo sapiens Eph-like receptor tyrosine kinase hEphB1b (EphB1) mRNA, complete cds	3.70E-01	<NONE>	<NONE>	<NONE>
3086	U17579	Human growth hormone-releasing hormone receptor gene, alternatively spliced forms a, b, and c, partial cds	0.053	<NONE>	<NONE>	<NONE>
3087	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.39	2950453	(AL022071) beta-transducin	2.00E-05
3088	U67479	Methanococcus jannaschii section 21 of 150 of the complete genome	0.005	<NONE>	<NONE>	<NONE>
3089	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-010	3283350	(AF062378) calmodulin-binding protein SHA1 [Mus musculus]	3e-006
3090	Z59351	H.sapiens CpG DNA, clone 151a12, reverse read cpg151a12.rt1a .	3e-020	1079063	deep orange protein - fruit fly (Drosophila melanogaster) >gi|798832 (X86683) deep orange (dor)	9.90E-02

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3091	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	1125753	(U42833) coded for by C. elegans cDNA CEESN37F; Similar to ammonium transport protein. [Caenorhabditis elegans]	1.00E-17
3092	AF021834	Homo sapiens tissue factor pathway inhibitor beta (TFPIbeta) mRNA, complete cds	e-172	125932	TISSUE FACTOR PATHWAY INHIBITOR PRECURSOR (TFPI) (LIPOPROTEIN-ASSOCIATED COAGULATION INHIBITOR) (LACI) (EXTRINSIC PATHWAY INHIBITOR) (EPI) precursor - human >gi|180546 (J03225) lipoprotein-associated coagulation inhibitor precursor associated coagulation	9e-032
3093	AJ006778	Homo sapiens mRNA for DRIM protein	0.00E+00	3242214	(AJ006778) DRIM protein [Homo sapiens]	3e-095
3094	AJ006778	Homo sapiens mRNA for DRIM protein	0.00E+00	3242214	(AJ006778) DRIM protein [Homo sapiens]	3e-095
3095	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-005	<NONE>	<NONE>	<NONE>
3096	AJ006778	Homo sapiens mRNA for DRIM protein	0	3242214	(AJ006778) DRIM protein [Homo sapiens]	8.00E-93
3097	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete	2e-005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
3098	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3.00E-09	1850115	(Z86089) fadD2 [Mycobacterium tuberculosis]	1.4
3099	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
3100	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
3101	U67986	Bacillus megaterium anthranilate synthase (trpD) gene, partial cds, indole glycerol phosphate synthetase N-phosphoribosylan thranilate isomerase (trpF) gene partial cds	1.1	2102696	(U72761) karyopherin beta 3 [Homo sapiens]	1.90E+00
3102	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3103	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1.00E-10	135554	TETRACYCLINE RESISTANCE PROTEIN Bacillus cereus plasmid pBC16 >gi|72838|pir||YTSOG tetracycline resistance protein - Streptococcus agalactiae plasmid pMV158 >gi|80428|pir||JQ1211 tetracycline resistance protein - Bacillus sp. plasmid pTB19 >gi|151696 (M63	1.4
3104	AJ006778	Homo sapiens mRNA for DRIM protein	0	3242214	(AJ006778) DRIM protein [Homo sapiens]	8.00E-93
3105	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3106	M60562	Mus musculus Mhc class II A beta polypeptide, partial cds (exons 3 and 4)	1.10E+00	<NONE>	<NONE>	<NONE>
3107	U91985	Human DNA fragmentation factor-45 mRNA, complete cds	e-133	2810997	DNA FRAGMENTATION FACTOR-45 factor-45 [Homo sapiens]	7e-013
3108	Y11455	S.salar microsatellite DNA, CA-repeat (AC)11.5	3.50E-01	3879530	(Z49130) cDNA EST yk486b9.3 comes from this gene; cDNA EST yk486b9.5 comes from this gene	0.0001
3109	Y11455	S.salar microsatellite DNA, CA-repeat (AC)11.5	3.50E-01	3879530	(Z49130) cDNA EST yk486b9.3 comes from this gene; cDNA EST yk486b9.5 comes from this gene	0.0001

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3110	AF052135	Homo sapiens clone 23625 mRNA sequence	4e-033	4098124	(U73522) STAM SH3 domain associating molecule [Homo sapiens]	5e-033
3111	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-005	<NONE>	<NONE>	<NONE>
3112	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	1351538	HYPOTHETICAL PROTEIN MG306 Mycoplasma genitalium (SGC3) >gi|3844885 (U39711) conserved hypothetical protein [Mycoplasma genitalium]	1.4
3113	L78777	Homo sapiens (subclone 2_b8 from P1 H49) DNA sequence	1.30E-01	<NONE>	<NONE>	<NONE>
3114	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3115	U29917	Human AMP deaminase (AMPD3) gene, exon 8 and 9.	3.00E-10	<NONE>	<NONE>	<NONE>
3116	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
3117	AE001038	Archaeoglobus fulgidus section 69 of 172 of the complete genome	0.14	<NONE>	<NONE>	<NONE>
3118	AF042378	Homo sapiens spindle pole body protein spc98 homolog GCP3 mRNA, complete cds	0	2801699	(AF042378) spindle pole body protein spc98 homolog GCP3	4e-080

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3119	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
3120	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	1351538	HYPOTHETICAL PROTEIN MG306 Mycoplasma genitalium (SGC3) >gi|3844885 (U39711) conserved hypothetical protein [Mycoplasma genitalium]	1.4
3121	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7.00E-07	133361	DNA-DIRECTED RNA POLYMERASE III 128 KD POLYPEPTIDE (RNA POLYMERASE III SUBUNIT 2) 2.7.7.6) III second-largest chain - fruit fly polymerase III second-largest subunit [Drosophila melanogaster]	4.40E+00
3122	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-05	<NONE>	<NONE>	<NONE>
3123	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-05	<NONE>	<NONE>	<NONE>
3124	AJ011981	Homo sapiens mRNA sequence, IMAGE clone 417820	2.00E-69	461950	DPY-19 PROTEIN elegans >gi|156300 (L12018) putative [Caenorhabditis elegans]	2e-026

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3125	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
3126	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.60E+00
3127	M26216	Rat (lambda 20BH0.1) L-type 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase	4.10E-02	205752	(M94288) Nopp140 [Rattus norvegicus]	1.1
3128	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5.00E-03	<NONE>	<NONE>	<NONE>
3129	<NONE>	<NONE>	<NONE>	730888	OCTAPEPTIDE-REPEAT PROTEIN T2 >gi|296382	5.2
3130	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5.00E-03	<NONE>	<NONE>	<NONE>
3131	X65446	H.sapiens gene locus DXS278 (S232-RU2) DNA	6e-011	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	1e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3132	X65446	H.sapiens gene locus DXS278 (S232-RU2) DNA	6e-011	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	1e-005
3133	X72219	C.pasteurianum gap gene	0.015	<NONE>	<NONE>	<NONE>
3134	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
3135	Z26494	S.cerevisiae genes for histone H2A and H2B, trehalase, and hexaprenyl pyrophosphate synthetase	1.1	3581891	(AL031540) hypothetical wtf3 protein	9.70E+00
3136	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.60E+00
3137	AL010234	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 4-55, complete sequence	0.37	1213606	(X95910) ftsA [Campylobacter jejuni]	4.2
3138	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.39	<NONE>	<NONE>	<NONE>
3139	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8.00E-07	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3140	J05073	Human phosphoglycerate mutase (PGAM-M) gene, complete cds.	1.00E-13	281501	phenylalanine--tRNA ligase (EC 6.1.1.20) beta chain - Thermus aquaticus	7
3141	M90656	Human gamma-glutamylcysteine synthetase (GCS) mRNA, complete cds.	0	1346190	GLUTAMATE--CYSTEINE LIGASE CATALYTIC SUBUNIT (GAMMA-GLUTAMYLCYSTEINE SYNTHETASE) glutamate--cysteine ligase (EC 6.3.2.2) heavy chain - human >gi|183039 (M90656) gamma-glutamylcysteine synthetase [Homo sapiens]	2.00E-71
3142	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-006	951325	(U31517) nuclear receptor XR78E/F [Drosophila melanogaster]	9.4
3143	AF053551	Homo sapiens metaxin 2 (MTX2) mRNA, nuclear gene encoding mitochondrial protein, complete cds	0.00E+00	3283049	(AF053551) metaxin 2 [Homo sapiens]	1.00E-79
3144	AF088034	Homo sapiens full length insert cDNA clone ZC24F03	e-125	1353059	HYPOTHETICAL 27.4 KD PROTEIN IN MER2-BNA1 INTERGENIC REGION >gi|1077874|pir||S57042 hypothetical protein YJR024c - yeast (Saccharomyces cerevisiae)	9e-023

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					>gi|1015663 (Z49524) ORF YJR024c gene product [Saccharomyces cerevisiae]	
3145	AF087973	Homo sapiens full length insert cDNA clone YU79H10	1e-033	<NONE>	<NONE>	<NONE>
3146	AF032456	Homo sapiens ubiquitin conjugating enzyme G2	8.00E-07	<NONE>	<NONE>	<NONE>
3147	Y12259	R.norvegicus mRNA for Kir3.1 protein	6e-058	<NONE>	<NONE>	<NONE>
3148	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-07	<NONE>	<NONE>	<NONE>
3149	X97154	D.willistoni mitochondrial 12S rRNA gene	1.20E+00	3875246	(Z81490) similar to WD domain, G-beta repeats (2 domains); cDNA EST EMBL:T00482 comes from this gene; cDNA EST EMBL:T00923 comes from this gene; cDNA EST yk449d4.3 comes from this gene; cDNA EST yk449d4.5 comes from this gen...	7e-016
3150	U17247	Saccharomyces cerevisiae chromosome XII cosmid L2142	1.20E-01	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3151	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	172012	(M12087) thr-tRNA-synthetase [Saccharomyces cerevisiae]	0.21
3152	L78777	Homo sapiens (subclone 2_b8 from P1 H49) DNA sequence	1.30E-01	<NONE>	<NONE>	<NONE>
3153	AF053551	Homo sapiens metaxin 2 (MTX2) mRNA, nuclear gene encoding mitochondrial protein, complete cds	0.00E+00	3283049	(AF053551) metaxin 2 [Homo sapiens]	1.00E-79
3154	X53616	C.domesticus calnexin (pp90) mRNA	1.1	<NONE>	<NONE>	<NONE>
3155	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.043	<NONE>	<NONE>	<NONE>
3156	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.002	3327080	(AB014533) KIAA0633 protein [Homo sapiens]	4.2
3157	U60337	Homo sapiens beta-mannosidase mRNA, complete cds	0	3024091	BETA-MANNOSIDASE PRECURSOR beta-mannosidase [Homo sapiens]	4e-068
3158	U32790	Haemophilus influenzae Rd section 105 of 163 of the complete genome	1.1	<NONE>	<NONE>	<NONE>
3159	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.12	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3160	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	1351696	HYPOTHETICAL 30.4 KD PROTEIN C3H1.13 IN CHROMOSOME I >gi|1103514 (Z68144) unknown	1.5
3161	U50535	Human BRCA2 region, mRNA sequence CG006	4e-012	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	4.5
3162	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2132302	hypothetical protein YPR144c - yeast similarity near C-terminus to RNA Polymerase beta subunit (Swiss Prot. accession number P11213) and CCAAT-binding transcription factor (PIR accession number A36368) [Saccharomyces cerevisiae]	4e-022
3163	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3164	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	3123086	HYPOTHETICAL PROTEIN MJ1050 Methanococcus jannaschii >gi|1499895 (U67548) conserved hypothetical protein [Methanococcus jannaschii]	1.3
3165	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
3166	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial	0.005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
3167	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
3168	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	833783	(X14338) NADH:ubiquinone oxidoreductase (428 AA) [Bos taurus]	0.17
3169	M20918	C.thummi piger haemoglobin (Hb) gene DNA, complete cds.	0.12	2496813	HYPOTHETICAL 59.9 KD PROTEIN B0304.5 IN CHROMOSOME II >gi|1041884 (U39472) B0304.5 gene product [Caenorhabditis elegans]	0.12
3170	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	100827	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 4 - wheat mitochondrion	4.1
3171	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.38	<NONE>	<NONE>	<NONE>
3172	AJ008065	Chrysolina bankii 16S rRNA gene, mitotype B2	0.045	<NONE>	<NONE>	<NONE>
3173	AB014591	Homo sapiens mRNA for KIAA0691 protein, complete cds	7e-057	3327196	(AB014591) KIAA0691 protein [Homo sapiens]	8e-007
3174	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	3184082	(AL023781) N-terminal acetyltransferase 1 [Schizosaccharomyces pombe]	1e-036

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3175	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	3219914	HYPOTHETICAL 16.8 KD PROTEIN C30D10.04 IN CHROMOSOME II >gi|2276353|gnl|PID|e330328 pombe]	2e-011
3176	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	133361	DNA-DIRECTED RNA POLYMERASE III 128 KD POLYPEPTIDE (RNA POLYMERASE III SUBUNIT 2) 2.7.7.6) III second-largest chain - fruit fly polymerase III second-largest subunit [Drosophila melanogaster]	4.3
3177	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-006	2429362	(AF020261) proline rich protein [Santalum album]	0.033
3178	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	3641258	(AF064554) ventral anterior homeobox-containing protein 1 [Mus musculus]	0.68
3179	AB018323	Homo sapiens mRNA for KIAA0780 protein, partial cds	3e-041	3327168	(AB014577) KIAA0677 protein [Homo sapiens]	2e-021
3180	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3181	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	3283350	(AF062378) calmodulin-binding protein SHA1 [Mus musculus]	5e-006

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3182	Z96207	H.sapiens telomeric DNA sequence, clone 12PTEL049, read 12PTELOO049.seq	8e-008	<NONE>	<NONE>	<NONE>
3183	AB017026	Mus musculus mRNA for oxysterol-binding protein, complete cds	0	3882265	(AB018315) KIAA0772 protein [Homo sapiens]	2e-091
3184	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
3185	X05283	Drosophila melanogaster PKCG7 gene exons 7-14 for protein kinase C	4.6	<NONE>	<NONE>	<NONE>
3186	AF026069	Homo sapiens phosphomevalonate kinase (HUMPMKI) gene, partial cds	0.42	<NONE>	<NONE>	<NONE>
3187	AF052573	Homo sapiens DNA polymerase eta (POLH) mRNA, complete cds	0	3510695	(AF052573) DNA polymerase eta [Homo sapiens]	4e-011
3188	M80198	Human FKBP-12 pseudogene, clone lambda-512, 5' flank and complete cds.	5e-014	2315521	(AF016452) similar to the beta transducin family	4e-027
3189	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
3190	AJ001296	Notophthalmus viridescens mRNA for cytokeratin 8	0.38	1175412	HYPOTHETICAL 24.2 KD PROTEIN C13A11.03 IN CHROMOSOME I >gi|984224 (Z54096) unknown	2e-020

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3191	Z60048	H.sapiens CpG DNA, clone 187a9, reverse read cpg187a9.rt1a .	4e-054	547662	HEPATOCYTE NUCLEAR FACTOR 3-BETA HNF-3 beta - mouse >gi|402191 (X74937) HNF-3beta [Mus musculus]	1e-020
3192	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	3e-071	2078282	(U95760) Sno [Drosophila melanogaster]	3e-068
3193	L09604	Homo sapiens differentiation-dependent A4 protein mRNA, complete cds.	2e-035	<NONE>	<NONE>	<NONE>
3194	AF054994	Homo sapiens clone 23832 mRNA sequence	0.12	<NONE>	<NONE>	<NONE>
3195	AF026069	Homo sapiens phosphomevalonate kinase (HUMPMKI) gene, partial cds	0.42	<NONE>	<NONE>	<NONE>
3196	AF026069	Homo sapiens phosphomevalonate kinase (HUMPMKI) gene, partial cds	0.42	<NONE>	<NONE>	<NONE>
3197	AB007918	Homo sapiens mRNA for KIAA0449 protein, partial cds	0.015	138240	GLYCOPROTEIN E PRECURSOR 1 >gi|59566|gnl|PID|e312380 (X14112) virion glycoprotein E [human herpesvirus 1] >gi|59882 (X02138) glycoprotein gE (Us8) [Human herpesvirus 1] >gi|291496 (L00036) gE protein [Human herpesvirus 1]	8.3

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3198	L07040	pFNeo eukaryotic expression vector, complete sequence.	1e-052	2072972	(U93572) putative p150 [Homo sapiens]	1e-019
3199	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.002	<NONE>	<NONE>	<NONE>
3200	M98502	Mus musculus protein encoding twelve zinc finger proteins (pMLZ-4) mRNA, complete cds.	5e-014	<NONE>	<NONE>	<NONE>
3201	M95098	Bos taurus lysozyme gene (cow 2), complete cds	1.1	3882205	(AB018285) KIAA0742 protein [Homo sapiens]	2e-034
3202	U49169	Dictyostelium discoideum V-ATPase A subunit (vatA) mRNA, complete cds	0.12	2126116	cymH protein - Klebsiella oxytoca >gi|854235	4.2
3203	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	2911548	(Y15173) E2 protein [Human papillomavirus type 75]	0.39
3204	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	7e-090	417134	HEPATOCYTE NUCLEAR FACTOR 3-BETA norvegicus]	5e-019
3205	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	4104093	(AF031642) urea transporter UT4 [Rattus norvegicus]	0.51
3206	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0002	<NONE>	<NONE>	<NONE>
3207	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3208	<NONE>	<NONE>	<NONE>	2252814	(AF006492) FOG [Mus musculus]	3.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3209	AF035940	Homo sapiens MAGOH mRNA, complete cds	e-131	2330011	(AF007862) mm-Mago [Mus musculus] >gi|2909828 (AF035939) similar to mago nashi [Mus musculus] >gi|2909830	4e-044
3210	U49169	Dictyostelium discoideum V-ATPase A subunit (vatA) mRNA, complete cds	0.12	1942101	Porcine Ribonuclease Inhibitor Complexed With Ribonuclease A	1.1
3211	AF054994	Homo sapiens clone 23832 mRNA sequence	0.12	<NONE>	<NONE>	<NONE>
3212	AF068627	Mus musculus DNA cytosine-5 methyltransferase 3B2 (Dnmt3b) mRNA, alternatively spliced, complete cds	0.0005	1869835	(Z86099) protein kinase [human herpesvirus 2]	0.86
3213	X68553	C.elegans repetitive DNA sequence	0.41	854065	(X83413) U88 [Human herpesvirus 6]	7e-007
3214	X68553	C.elegans repetitive DNA sequence	0.41	854065	(X83413) U88 [Human herpesvirus 6]	7e-007
3215	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-005	<NONE>	<NONE>	<NONE>
3216	AF054994	Homo sapiens clone 23832 mRNA sequence	0.12	<NONE>	<NONE>	<NONE>
3217	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	3e-071	2078282	(U95760) Sno [Drosophila melanogaster]	3e-068
3218	X96400	P.tetraurelia alpha-51D gene	0.38	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3219	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3220	AF067212	Caenorhabditis elegans cosmid F37F2	0.005	<NONE>	<NONE>	<NONE>
3221	Y08844	L.esculentum PR1a2 gene	1.1	<NONE>	<NONE>	<NONE>
3222	Y08844	L.esculentum PR1a2 gene	1.1	<NONE>	<NONE>	<NONE>
3223	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6.00E-05	<NONE>	<NONE>	<NONE>
3224	U08214	Rattus sp. DNA binding protein (URE-B1) mRNA, complete cds.	1.1	477513	mesoderm development regulatory protein Sna - mouse >gi|54121 (X67253) sna [Mus musculus]	1.1
3225	L19713	Human dematin (HRD1) mRNA, complete cds.	0.051	<NONE>	<NONE>	<NONE>
3226	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.043	2645389	(U83858) NADH dehydrogenase subunit 4 [Onychomys leucogaster]	7.5
3227	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5.00E-03	2662477	(AF034804) LACK [Leishmania major]	3e-011
3228	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3229	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.20E+00

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3230	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0005	<NONE>	<NONE>	<NONE>
3231	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0005	<NONE>	<NONE>	<NONE>
3232	AF036685	Caenorhabditis elegans cosmid C05B10	0.38	<NONE>	<NONE>	<NONE>
3233	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3234	AL010153	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-80, complete sequence	6e-005	<NONE>	<NONE>	<NONE>
3235	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	5.00E-04	<NONE>	<NONE>	<NONE>
3236	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.39	<NONE>	<NONE>	<NONE>
3237	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
3238	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
3239	X65319	Cloning vector pCAT-Enhancer	5.00E-77	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3240	AG000140	Homo sapiens genomic DNA, 21q region, clone: T171X2	1.60E-01	2494505	HEPATOCYTE NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 4 (HFH-4) >gi|2137385|pir||I49734 HNF-3/fork-head homolog-4 - mouse >gi|550488 (L13204) HNF-3/fork-head homolog-4 [Mus musculus]	7.5
3241	L77886	Human protein tyrosine phosphatase mRNA, complete cds	1.00E-21	139560	SATELLITE RNA 48 KD PROTEIN	5.9
3242	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	3879988	(Z68318) T21B10.4 [Caenorhabditis elegans]	7.9
3243	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	3184286	(AC004136) hypothetical protein [Arabidopsis thaliana]	7.7
3244	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	5.00E-04	<NONE>	<NONE>	<NONE>
3245	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
3246	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
3247	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2.00E-05	1050849	(X83742) MAP kinase phosphatase [Xenopus laevis]	4.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3248	AF084186	Rattus norvegicus alpha-fodrin (A2A) mRNA, complete cds	0.39	3123155	HYPOTHETICAL 49.0 KD TRP-ASP REPEATS CONTAINING PROTEIN F55F8.5 IN CHROMOSOME I family [Caenorhabditis elegans]	5.00E-29
3249	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5.00E-04	3293508	(AF069188) NADH dehydrogenase 1 [Ephedrus laevicollis]	0.3
3250	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	3243110	(AF034976) unknown [Pilayella littoralis]	4.6
3251	M77812	Rabbit myosin heavy chain mRNA, complete cds.	0.58	3876408	(Z81069) Similarity to Yeast hypothetical 65.2 KD protein (SW:P36076); cDNA EST yk393e9.3 comes from this gene; cDNA EST yk393e9.5 comes from this gene [Caenorhabditis elegans]	3.1
3252	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3253	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	1351841	ISOCITRATE LYASE (ISOCITRASE) lyase [Lycopersicon esculentum]	6.00E+00
3254	Z50144	R.norvegicus mRNA for kynurenine/alpha-aminoadipate aminotransferase	2.00E-76	1050752	(Z50144) kynurenine/alpha-aminoadipate aminotransferase	6e-033

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3255	Z50144	R.norvegicus mRNA for kynurenine/alpha-aminoadipate aminotransferase	2.00E-76	1050752	(Z50144) kynurenine/alpha-aminoadipate aminotransferase	6e-033
3256	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.043	109340	pepsin (EC 3.4.23.-) II-2/3 precursor - rabbit	4.5
3257	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-007	3875769	(Z35662) similar to Approximately 25 cadherin-repeats, 3 EGF domains and one Laminin G domain; cDNA EST EMBL:D27303 comes from this gene; cDNA EST EMBL:D27305 comes from this gene; cDNA EST EMBL:D27304 comes from this gene; ... >gi|3876224|gnl|PID|e134589	4.20E-01
3258	AF041059	Homo sapiens WSCR4 gene, exon 7 and partial cds	5.90E-02	<NONE>	<NONE>	<NONE>
3259	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>
3260	U87266	Arabidopsis thaliana 2,3-oxidosqualene-triterpenoid cyclase mRNA, complete cds	5.60E-01	1175412	HYPOTHETICAL 24.2 KD PROTEIN C13A11.03 IN CHROMOSOME I >gi|984224 (Z54096) unknown	2e-009

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3261	AL010240	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 4-64, complete sequence	1.3	3882205	(AB018285) KIAA0742 protein [Homo sapiens]	5.00E-10
3262	L20566	Aspergillus niger acid phospatase complete cds.	3.9	3777583	(AF084481) transmembrane protein [Homo sapiens]	5.00E+00
3263	U12202	Human ribosomal protein S24 (rps24) gene, complete cds	3.80E+00	<NONE>	<NONE>	<NONE>
3264	U70139	Mus musculus putative CCR4 protein mRNA, partial cds	0	2251234	(U70139) putative CCR4 protein [Mus musculus]	6e-093
3265	AF055666	Mus musculus kinesin light chain 2 (Klc2) mRNA, complete cds	0.53	3387889	(AF070532) emb-5 [Homo sapiens]	0.56
3266	AF077618	Homo sapiens p73 gene, exon 3	0.4	127709	MYOBLAST DETERMINATIO N PROTEIN 1	7.8
3267	AF072250	Homo sapiens methyl-CpG binding protein MBD4	e-161	3800809	(AF072250) methyl-CpG binding protein MBD4 [Homo sapiens]	2.00E-47
3268	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-009	886048	(U25686) E93 [Drosophila melanogaster]	1.8
3269	AG001313	Homo sapiens genomic DNA, 21q region, clone: 125H6N26	0.0005	<NONE>	<NONE>	<NONE>
3270	U25846	Homarus americanus clone LOB5 farnesoic acid o-methyltransferase mRNA, complete cds.	1.40E-02	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3271	AF068627	Mus musculus DNA cytosine-5 methyltransferase 3B2 (Dnmt3b) mRNA, alternatively spliced, complete cds	0.0005	1698496	(U53444) LW-amid and MW-amid-containing preprohormone	4.40E+00
3272	U60022	Mus musculus antigen processing-associated transporter TAP1-k mRNA, complete cds	3.50E+00	2498941	SPLICEOSOME ASSOCIATED PROTEIN 62 spliceosome-associated protein SAP 62 - human >gi|409219	0.23
3273	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-005	<NONE>	<NONE>	<NONE>
3274	U24676	Drosophila melanogaster twinstar (tsr) gene, complete cds	1.20E+00	<NONE>	<NONE>	<NONE>
3275	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.50E-02	<NONE>	<NONE>	<NONE>
3276	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>
3277	AF072250	Homo sapiens methyl-CpG binding protein MBD4	e-161	3800809	(AF072250) methyl-CpG binding protein MBD4 [Homo sapiens]	2.00E-47
3278	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>
3279	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>
3280	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3281	AF054994	Homo sapiens clone 23832 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>
3282	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-005	<NONE>	<NONE>	<NONE>
3283	U20281	Gallus gallus clone pNG13 cell division cycle control protein 37 (cdc37) mRNA, complete cds.	0.017	2642625	(AF032118) intersectin [Xenopus laevis]	1.40E+00
3284	X65279	pWE15 cosmid vector DNA	2e-059	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
3285	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>
3286	D80005	Human mRNA for KIAA0183 gene, partial cds	0	<NONE>	<NONE>	<NONE>
3287	U27341	Bos taurus endothelin converting enzyme-2 Sequence 1 from patent US 5736376	1e-096	2136744	endothelin converting enzyme-2 - bovine	2e-047
3288	M58417	Drosophila melanogaster laminin B2 gene, complete cds.	0.35	1142698	(U26463) NADPH-dependent aldehyde reductase	6.8
3289	M58417	Drosophila melanogaster laminin B2 gene, complete cds.	0.35	1142698	(U26463) NADPH-dependent aldehyde reductase	6.8
3290	AF020043	Homo sapiens chromosome-associated polypeptide	0	1785540	(U82626) basement membrane-associated chondroitin proteoglycan Bamacan [Rattus norvegicus]	e-112

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3291	U57368	Mus musculus EGF repeat transmembrane protein mRNA, complete cds.	0	1336628	(U57368) EGF repeat transmembrane protein [Mus musculus]	e-101
3292	AB018323	Homo sapiens mRNA for KIAA0780 protein, partial cds	3e-041	3327168	(AB014577) KIAA0677 protein [Homo sapiens]	1e-021
3293	X65279	pWE15 cosmid vector DNA	2e-059	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
3294	X71642	M.musculus GEG-154 mRNA	3e-092	<NONE>	<NONE>	<NONE>
3295	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	3879362	(Z81113) similar to DnaJ, prokaryotic heat shock protein, Zinc finger, C2H2 type; cDNA EST yk290e12.5 comes from this gene; cDNA EST yk290e12.3 comes from this gene; cDNA EST yk447h4.5 comes from this gene; cDNA EST yk474e4....	3e-005
3296	AB017026	Mus musculus mRNA for oxysterol-binding protein, complete cds	0	3551523	(AB017026) oxysterol-binding protein	e-103
3297	U43431	Human DNA topoisomerase III mRNA, complete cds.	0	2501242	DNA TOPOISOMERASE III >gi|1292912	6e-069
3298	M35296	Human tyrosine kinase arg gene mRNA.	1.1	2135080	epithelial microtubule-associated protein, 115K - human >gi|414115 (X73882) microtubule associated protein	1.8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					[Homo sapiens]	
3299	D50646	Mouse mRNA for SDF2, complete cds	1e-031	2136205	stromal cell-derived factor 2 - human sapiens]	4e-014
3300	L34732	Homo sapiens T-cell receptor beta (TCRB) mRNA	0.35	3875664	(Z83104) predicted using Genefinder	3e-005
3301	AF030558	Rattus norvegicus phosphatidylinositol 5-phosphate 4-kinase gamma mRNA, complete cds	1e-013	<NONE>	<NONE>	<NONE>
3302	X03100	Human HLA-SB(DP) alpha gene	2e-018	<NONE>	<NONE>	<NONE>
3303	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	2950243	(Z98204) extensin [Hordeum vulgare]	2e-005
3304	Y13631	Clostridium botulinum P-21, P-47 ntnh, bonT genes	1	<NONE>	<NONE>	<NONE>
3305	Y13631	Clostridium botulinum P-21, P-47 ntnh, bonT genes	1	<NONE>	<NONE>	<NONE>
3306	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-011	1655830	(U59446) myrosinase-binding protein related protein	0.01
3307	X17538	Butyrivibrio fibrisolvens end1 gene for endoglucanase	0.12	1001811	(D64005) hypothetical protein	5.2
3308	D42053	Human mRNA for KIAA0091 gene, complete cds	0	577309	(D42053) KIAA0091 gene product is related to subtilisin. [Homo sapiens]	e-127

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3309	L81800	Homo sapiens (subclone 2_g9 from P1 H31) DNA sequence	2e-006	<NONE>	<NONE>	<NONE>
3310	L81800	Homo sapiens (subclone 2_g9 from P1 H31) DNA sequence	2e-006	<NONE>	<NONE>	<NONE>
3311	K01641	Mouse Ig kappa active V-region from 70Z/3 cells.	3.1	<NONE>	<NONE>	<NONE>
3312	K01641	Mouse Ig kappa active V-region from 70Z/3 cells.	3.1	<NONE>	<NONE>	<NONE>
3313	U09954	Human ribosomal protein L9 gene, 5' region and complete cds.	e-114	2136121	ribosomal protein L9 - human >gi|607793	3e-027
3314	M19735	Homo sapiens beta-hexosaminidase beta chain mRNA, complete cds.	0	179462	(M13519) N-acetyl-beta-glucosaminidase prepro-polypeptide	4e-075
3315	M31760	Human chromosome 9 t(9;22) breakpoint DNA.	2e-016	2981631	(AB012223) ORF2 [Canis familiaris]	0.018
3316	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	495696	(U00067) C. elegans PAR-3 cell polarity protein	2.5
3317	U61084	Human phorbolin 3 mRNA, complete cds	0	4097433	(U61084) phorbolin 3 [Homo sapiens]	7e-099
3318	X95161	H.sapiens brca2 gene exon 11 > :: emb|A62786|A62786 Sequence 27 from Patent WO9719110	5e-024	244126	uroporphyrinogen III synthase, UROIIIS [human, Peptide Mutant, 265 aa]	0.12
3319	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3320	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	2143490	LGL-1 - mouse >gi|1041889|bbs|169033 267 aa] [Mus sp.]	7.2
3321	U76112	Mus musculus translation repressor NAT1 mRNA, complete cds	1e-013	729818	EUKARYOTIC INITIATION FACTOR 4F SUBUNIT P130 (EIF-4F) (MRNA CAP-BINDING PROTEIN COMPLEX SUBUNIT P130) >gi|539297|pir||B48086 translation initiation factor eIF-4F TIF4632 - yeast (Saccharomyces cerevisiae) >gi|295677 (L16924) p130 [Saccharomyces cerevisiae	1.9
3322	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
3323	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	495696	(U00067) C. elegans PAR-3 cell polarity protein	2.5
3324	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	2e-018	2197085	(AF003535) ORF2-like protein [Homo sapiens]	0.0002
3325	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-010	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3326	Z48561	E.coli perA, perB, perC and perD genes	0.38	2576325	(Y12239) env [porcine endogenous retrovirus]	7.4
3327	Z48561	E.coli perA, perB, perC and perD genes	0.38	2576325	(Y12239) env [porcine endogenous retrovirus]	7.4
3328	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	2576325	(Y12239) env [porcine endogenous retrovirus]	7.4
3329	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	2576325	(Y12239) env [porcine endogenous retrovirus]	7.4
3330	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1e-010	1362915	protein-tyrosine kinase (EC 2.7.1.112) STK-1 precursor - human	0.5
3331	X65319	Cloning vector pCAT-Enhancer	3e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
3332	AB018304	Homo sapiens mRNA for KIAA0761 protein, partial cds	0	3882243	(AB018304) KIAA0761 protein [Homo sapiens]	8e-098
3333	Y08460	Mus musculus mRNA for Mdes transmembrane protein	1e-085	2225941	(Y08460) Mdes protein [Mus musculus]	8e-071
3334	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.1.
3335	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3336	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	2687928	(AE001118) P115 protein [Borrelia burgdorferi]	5.2

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3337	U94831	Homo sapiens multispanning membrane protein mRNA, complete cds	0	2276460	(U94831) multispanning membrane protein [Homo sapiens]	5e-087
3338	U14972	Human ribosomal protein S10 mRNA, complete cds.	2e-059	133715	40S RIBOSOMAL PROTEIN S10	0.0002
3339	K01254	Human gastrin gene, complete cds.	5e-005	<NONE>	<NONE>	<NONE>
3340	U08469	Glycine max 3-methylcrotonyl-CoA carboxylase mRNA, biotin-carrier domain, partial cds.	3e-051	3876562	(Z81074) Similarity to Soybean 3-methylcrotonyl-CoA carboxylase (TR:Q42777); cDNA EST EMBL:M75819 comes from this gene; cDNA EST EMBL:M89099 comes from this gene; cDNA EST EMBL:D32737 comes from this gene; cDNA EST EMBL:D327...	1e-073
3341	AB011139	Homo sapiens mRNA for KIAA0567 protein, partial cds	0	3043658	(AB011139) KIAA0567 protein [Homo sapiens]	e-123
3342	U07615	Rattus norvegicus mucin mRNA, partial cds.	2e-006	2506877	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2) >gi|454154 (L21998) mucin [Homo sapiens]	0.0007
3343	AF061749	Homo sapiens tumorous imaginal discs protein Tid56 homolog (TID1) mRNA, complete cds	e-154	3372677	(AF061749) tumorous imaginal discs protein Tid56 homolog	4e-060

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3344	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.001	2984587	(AC004472) P1.11659_3 [Homo sapiens]	3e-008
3345	U45998	Onchocerca volvulus MRS3/MRS4 class mitochondrial solute carrier mRNA, complete cds	2e-008	3880433	(Z66521) similar to mitochondrial RNA splicing MSR4 like protein; cDNA EST EMBL:C09217 comes from this gene [Caenorhabditis elegans]	2e-051
3346	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	2e-018	2197085	(AF003535) ORF2-like protein [Homo sapiens]	0.0002
3347	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
3348	U14972	Human ribosomal protein S10 mRNA, complete cds.	2e-059	133715	40S RIBOSOMAL PROTEIN S10	0.0002
3349	M80198	Human FKBP-12 pseudogene, clone lambda-512, 5' flank and complete cds.	1.00E-10	2315521	(AF016452) similar to the beta transducin family	1e-022
3350	AB011180	Homo sapiens mRNA for KIAA0608 protein, partial cds	5e-077	3043740	(AB011180) KIAA0608 protein [Homo sapiens]	8e-071
3351	U45858	Zea mays glyceraldehyde-3-phosphate dehydrogenase	4.2	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3352	U45858	Zea mays glyceraldehyde-3-phosphate dehydrogenase	4.2	<NONE>	<NONE>	<NONE>
3353	AF035940	Homo sapiens MAGOH mRNA, complete cds	e-141	2330011	(AF007862) mm-Mago [Mus musculus] >gi|2909828 (AF035939) similar to mago nashi [Mus musculus] >gi|2909830	1e-075
3354	AF035940	Homo sapiens MAGOH mRNA, complete cds	e-141	2330011	(AF007862) mm-Mago [Mus musculus] >gi|2909828 (AF035939) similar to mago nashi [Mus musculus] >gi|2909830	1e-075
3355	M24486	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-11.	e-147	3876769	(Z69637) Similarity to Human Prolyl 4-hydroxylase alpha subunit (SW:P4HA_HUMAN); cDNA EST yk219g12.5 comes from this gene; cDNA EST yk319d8.5 comes from this gene; cDNA EST yk339d11.5 comes from this gene; cDNA EST yk371c9.3...	4e-012
3356	Z50144	R.norvegicus mRNA for kynurenine/alpha-aminoadipate aminotransferase	3.00E-93	1050752	(Z50144) kynurenine/alpha-aminoadipate aminotransferase	2e-043

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3357	M24486	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-11.	e-147	3876769	(Z69637) Similarity to Human Prolyl 4-hydroxylase alpha subunit (SW:P4HA_HUMAN); cDNA EST yk219g12.5 comes from this gene; cDNA EST yk319d8.5 comes from this gene; cDNA EST yk339d11.5 comes from this gene; cDNA EST yk371c9.3...	4e-012
3358	U83981	Homo sapiens apoptosis associated protein (GADD34) mRNA, complete cds	0	3258618	(U83981) apoptosis associated protein [Homo sapiens]	8.00E-24
3359	U30817	Bos taurus very-long-chain acyl-CoA dehydrogenase mRNA, nuclear gene encoding mitochondrial protein, complete cds.	1e-010	2765125	(Y11770) very-long-chain acyl-CoA dehydrogenase [Mus musculus]	4e-013
3360	Z35094	H.sapiens mRNA for SURF-2	5e-097	2498974	SURFEIT LOCUS PROTEIN 2	4e-046
3361	Z35094	H.sapiens mRNA for SURF-2	5e-097	2498974	SURFEIT LOCUS PROTEIN 2	4e-046
3362	Z35094	H.sapiens mRNA for SURF-2	5e-097	2498974	SURFEIT LOCUS PROTEIN 2	4e-046
3363	Z63829	H.sapiens CpG DNA, clone 90h2, forward read cpg90h2.ft1a	5e-022	1050411	(L43146) nuclear factor I-B1 [Xenopus laevis]	5.4
3364	AF052573	Homo sapiens DNA polymerase eta (POLH) mRNA, complete cds	0	3510695	(AF052573) DNA polymerase eta [Homo sapiens]	4e-011

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3365	AF092564	Homo sapiens chromosome-associated protein-C	0	3851586	(AF092564) chromosome-associated protein-C [Homo sapiens]	6e-052
3366	AF031924	Homo sapiens homeobox - transcription factor barx2	2.00E-90	<NONE>	<NONE>	<NONE>
3367	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	419712	probable transposase (insertion sequence IS1138) - Mycoplasma pulmonis (SGC3)	2.6
3368	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	419712	probable transposase (insertion sequence IS1138) - Mycoplasma pulmonis (SGC3)	2.6
3369	M24487	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-15.	e-125	2507090	PROLYL 4-HYDROXYLASE ALPHA SUBUNIT PRECURSOR >gi|66338|pir||DAHUA2 procollagen-proline dioxygenase (EC 1.14.11.2) alpha chain precursor, splice form 2 - human >gi|602675 (U14620) alpha-subunit of prolyl 4-hydroxylase [Homo sapiens]	1e-007

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3370	M24487	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-15.	e-125	2507090	PROLYL 4-HYDROXYLASE ALPHA SUBUNIT PRECURSOR >gi|66338|pir||DAHUA2 procollagen-proline dioxygenase (EC 1.14.11.2) alpha chain precursor, splice form 2 - human >gi|602675 (U14620) alpha-subunit of prolyl 4-hydroxylase [Homo sapiens]	1e-007
3371	U45858	Zea mays glyceraldehyde-3-phosphate dehydrogenase	4.2	<NONE>	<NONE>	<NONE>
3372	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
3373	D50930	Human mRNA for KIAA0140 gene, complete cds	2e-046	<NONE>	<NONE>	<NONE>
3374	X06461	Herpes simplex virus type I immediate early (IE) gene 3 for transcriptional activator IE175 (= ICP 4)	3.00E-04	2924449	(AL022022) PE_PGRS [Mycobacterium tuberculosis]	4.00E-05
3375	X06461	Herpes simplex virus type I immediate early (IE) gene 3 for transcriptional activator IE175 (= ICP 4)	3.00E-04	2924449	(AL022022) PE_PGRS [Mycobacterium tuberculosis]	4.00E-05

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3376	X85753	Homo sapiens mRNA for CDK8 protein kinase > :: emb|A61243|A61243 Sequence 1 from Patent WO9709432	7e-059	<NONE>	<NONE>	<NONE>
3377	X76192	Mycoplasma sp. munIM, munIC and munIR genes.	1.2	<NONE>	<NONE>	<NONE>
3378	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3379	M24486	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-11.	e-147	3876769	(Z69637) Similarity to Human Prolyl 4-hydroxylase alpha subunit (SW:P4HA_HUMAN); cDNA EST yk219g12.5 comes from this gene; cDNA EST yk319d8.5 comes from this gene; cDNA EST yk339d11.5 comes from this gene; cDNA EST yk371c9.3...	4e-012
3380	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
3381	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	2119163	collagen alpha 1(III) chain precursor - mouse	0.005
3382	AB009357	Homo sapiens mRNA for TGF-beta activated kinase 1b, complete cds	0	1167506	(D76446) TAK1 (TGF-beta-activated kinase) [Mus musculus]	2e-033

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3383	D38112	Human mitochondrial DNA, complete sequence	5e-052	14016	(X55654) cytochrome C oxidase II subunit [Homo sapiens]	1e-014
3384	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	7e-038	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.035
3385	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	7e-038	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.035
3386	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	2384956	(AF022985) No definition line found [Caenorhabditis elegans]	6e-029
3387	AF010484	Homo sapiens ICI YAC 9IA12, right end sequence	3e-010	<NONE>	<NONE>	<NONE>
3388	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	113667	!!!! ALU CLASS B WARNING ENTRY !!!!	0.68
3389	AJ009761	Homo sapiens mRNA for putative dimethyladenosine transferase, partial	0	4050050	(AF102147) putative dimethyladenosine transferase [Homo sapiens]	4.00E-46
3390	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.048	<NONE>	<NONE>	<NONE>
3391	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.048	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3392	AL022579	Homo sapiens DNA sequence from clone 47K8 on chromosome Xp11.21-11.23, complete sequence [Homo sapiens]	1e-070	<NONE>	<NONE>	<NONE>
3393	U37454	Human Down Syndrome region of chromosome 21 genomic sequence, clone A31D6-1H7.	0.12	<NONE>	<NONE>	<NONE>
3394	AF058954	Homo sapiens GTP-specific succinyl-CoA synthetase beta subunit (SCS) mRNA, partial cds	0	3766199	(AF058954) GTP-specific succinyl-CoA synthetase beta subunit [Homo sapiens]	e-122
3395	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	3043582	(AB011101) KIAA0529 protein [Homo sapiens]	2e-012
3396	Z23090	H.sapiens mRNA for 28 kDa heat shock protein.	3e-079	1709972	60S RIBOSOMAL PROTEIN L10A (CSA-19)	2e-025
3397	D14657	Human mRNA for KIAA0101 gene, complete cds	0	3183216	HYPOTHETICAL PROTEIN KIAA0101 sapiens]	2e-026
3398	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	e-121	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|gnl|PID|d1005029 (D17577) Kif1b [Mus musculus]	1e-048
3399	AF091078	Homo sapiens clone 559 unknown mRNA, complete sequence	0	4050050	(AF102147) putative dimethyladenosine transferase [Homo sapiens]	1e-048

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3400	AC000043	Homo sapiens Chromosome 22q13 Cosmid Clone p74a8, complete sequence [Homo sapiens]	7e-006	<NONE>	<NONE>	<NONE>
3401	AC000043	Homo sapiens Chromosome 22q13 Cosmid Clone p74a8, complete sequence [Homo sapiens]	7e-006	<NONE>	<NONE>	<NONE>
3402	AF031924	Homo sapiens homeobox transcription factor barx2	e-156	<NONE>	<NONE>	<NONE>
3403	AF031924	Homo sapiens homeobox transcription factor barx2	e-157	3882305	(AB018335) KIAA0792 protein [Homo sapiens]	4.5
3404	L22473	Human Bax alpha mRNA, complete cds.	0	728945	APOPTOSIS REGULATOR BAX, MEMBRANE ISOFORM ALPHA >gi|539664|pir||A47538 bcl-2-associated protein bax alpha splice form - human >gi|388166	9e-075
3405	U04709	Human adenine phosphoribosyltransferase (APRT) gene, 3' flanking region	e-151	113668	!!!! ALU CLASS C WARNING ENTRY !!!!	0.91
3406	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	3064146	(AF036408) mucin-like protein [Trypanosoma cruzi]	7.6
3407	AF093268	Rattus norvegicus homer-1c mRNA, complete cds	e-171	1913909	(U92079) GLGF-domain protein Homer [Rattus norvegicus]	4e-046

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3408	U47322	Cloning vector DNA, complete sequence.	2.00E-38	987050	(X65335) lacZ gene product [unidentified cloning vector]	3.00E-03
3409	U78109	Mus musculus prepro-neurturin mRNA, complete cds	1.2	2506998	STANNIOCALCIN (STC) (CORPUSCLES OF STANNIUS PROTEIN) (CS) (HYPOCALCIN) (TELEOCALCIN)	1.2
3410	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	5e-013	<NONE>	<NONE>	<NONE>
3411	D50930	Human mRNA for KIAA0140 gene, complete cds	0.00E+00	1235974	(X96713) collagen [Globodera pallida]	5.8
3412	D50930	Human mRNA for KIAA0140 gene, complete cds	2e-046	<NONE>	<NONE>	<NONE>
3413	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3414	L01777	Yersinia pseudotuberculosis (group IIA) rfb gene cluster	1.20E-01	<NONE>	<NONE>	<NONE>
3415	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	e-130	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|gnl|PID|d1005029 (D17577) Kif1b [Mus musculus]	1e-049
3416	AB014597	Homo sapiens mRNA for KIAA0697 protein, partial cds	2e-067	3327208	(AB014597) KIAA0697 protein [Homo sapiens]	6e-050

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3417	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-11	<NONE>	<NONE>	<NONE>
3418	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3419	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3420	AB014597	Homo sapiens mRNA for KIAA0697 protein, partial cds	2e-067	3327208	(AB014597) KIAA0697 protein [Homo sapiens]	6e-050
3421	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
3422	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8.00E-08	1176456	(S79774) bile salt-dependent lipase, BSDL {EC 3.1.1.-} [human, fetal pancreas, Peptide Partial, 720 aa] [Homo sapiens]	9.4
3423	AF100661	Caenorhabditis elegans cosmid H20E11	0.39	<NONE>	<NONE>	<NONE>
3424	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2.00E-04	<NONE>	<NONE>	<NONE>
3425	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9.00E-10	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3426	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9.00E-10	<NONE>	<NONE>	<NONE>
3427	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-05	3056592	(AC004255) T1F9.13 [Arabidopsis thaliana]	10
3428	U89676	Candida albicans putative membrane protein (CSP37) gene, complete cds	0.12	<NONE>	<NONE>	<NONE>
3429	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
3430	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3431	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-07	<NONE>	<NONE>	<NONE>
3432	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-07	<NONE>	<NONE>	<NONE>
3433	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-07	<NONE>	<NONE>	<NONE>
3434	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-13	<NONE>	<NONE>	<NONE>
3435	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-13	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3436	AB014597	Homo sapiens mRNA for KIAA0697 protein, partial cds	2e-067	3327208	(AB014597) KIAA0697 protein [Homo sapiens]	6e-050
3437	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-06	1360669	collagen alpha 1(V) chain precursor - human sapiens]	1.8
3438	U65297	Geomys breviceps cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, complete cds	3.50E+00	<NONE>	<NONE>	<NONE>
3439	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-06	3914965	TOXIN BMK-X PRECURSOR (BMK10) (BMK M10) (NEUROTOXIN M10) >gi|3138981 (AF062563) neurotoxin M10 precursor [Mesobuthus martensii]	4
3440	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-06	3914965	TOXIN BMK-X PRECURSOR (BMK10) (BMK M10) (NEUROTOXIN M10) >gi|3138981 (AF062563) neurotoxin M10 precursor [Mesobuthus martensii]	4
3441	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-011	3413900	(AB007938) KIAA0469 protein [Homo sapiens]	1.40E-02

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3442	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-11	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.20E+00
3443	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-11	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.20E+00
3444	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8.00E-08	1176456	(S79774) bile salt-dependent lipase, BSDL {EC 3.1.1.-} [human, fetal pancreas, Peptide Partial, 720 aa] [Homo sapiens]	9.4
3445	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-13	<NONE>	<NONE>	<NONE>
3446	U91543	Homo sapiens zinc-finger helicase (hZFH) mRNA, complete cds	1.00E-61	2961557	(AF050199) putative peroxisome microbody protein 175.1	3.70E+00
3447	X75258	H.sapiens DNA from recombination area	1.40E-02	1143020	(U28974) ORF1 [Spiroplasma virus]	9.5
3448	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8.00E-08	<NONE>	<NONE>	<NONE>
3449	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-07	631089	bat2 protein - human	0.055

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3450	AL022321	Homo sapiens DNA sequence from PAC 20O8 on chromosome 22q12.1-12.3. Contains exons 13 and 14 of the SLC5A1 (SGLT1) gene for solute carrier family 5 Sodium-Glucose Cot...	1.10E+00	3063453	(AC003981) F22O13.15 [Arabidopsis thaliana]	7.2
3451	AF060798	Homo sapiens myristilated and palmitylated serine-threonine kinase MPSK (MPSK1) mRNA, complete cds	0.00E+00	3372666	(AF060798) myristilated and palmitylated serine-threonine kinase MPSK [Homo sapiens]	2e-067
3452	AF080399	Drosophila melanogaster mitotic checkpoint control protein kinase BUB1 (Bub1) mRNA, complete cds	1.1	3184082	(AL023781) N-terminal acetyltransferase 1 [Schizosaccharomyces pombe]	1e-033
3453	AF041259	Homo sapiens breast cancer putative transcription factor (ZABC1) mRNA, complete cds	0.00E+00	3879065	(Z81576) R10E8.3 [Caenorhabditis elegans]	9.7
3454	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3.70E-01	549359	MINOR CAPSID PROTEIN L2 type 26 >gi|396962 (X74472) late protein [Human papillomavirus type 26]	0.097
3455	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-06	2746890	(AF040655) No definition line found [Caenorhabditis elegans]	9.1

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3456	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	3874316	(Z81470) predicted using Genefinder	6.8
3457	V01399	Defective Semliki forest virus RNA. Derived by serial undiluted passaging of the virus in baby. hamster kidney cells > :: gb|L00017|SFVD IB semliki forest virus defective interfering (18s di) rna di309.	0.98	2496616	HYPOTHETICAL 38.5 KD PROTEIN Y4EE	2.1
3458	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4.60E-02	<NONE>	<NONE>	<NONE>
3459	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6.00E-06	<NONE>	<NONE>	<NONE>
3460	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	630844	NADH dehydrogenase chain 2 - fruit fly dehydrogenase subunit 2 [Drosophila erecta]	7.3
3461	L49035	Gorilla gorilla ABC-transporter (TAP2) mRNA, complete cds	4.70E-01	2058691	(U94836) ERPROT 213-21 [Homo sapiens]	4.3
3462	U67524	Methanococcus jannaschii section 66 of 150 of the complete genome	4.10E-02	140229	HYPOTHETICAL 82 KD AVIRULENCE PROTEIN IN AVRBS3 REGION >gi|77844|pir||JQ0 317 hypothetical 82K protein - Xanthomonas	7.3

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					campestris pv. vesicatoria	
3463	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-12	<NONE>	<NONE>	<NONE>
3464	U65297	Geomys breviceps cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, complete cds	3.50E+00	<NONE>	<NONE>	<NONE>
3465	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3466	U36266	Human beta-prime-adaptin (BAM22) gene, exons 18 and 19	1.20E+00	<NONE>	<NONE>	<NONE>
3467	AB018327	Homo sapiens mRNA for KIAA0784 protein, partial cds	0	3882289	(AB018327) KIAA0784 protein [Homo sapiens]	e-103
3468	AB018327	Homo sapiens mRNA for KIAA0784 protein, partial cds	0	3882289	(AB018327) KIAA0784 protein [Homo sapiens]	e-103
3469	U66789	Human laminin alpha 2 chain (LAMA2) gene, exon 57	4.80E-02	3873753	(Z66519) similar to phytoene synthase precursor; cDNA EST yk340f7.3 comes from this gene; cDNA EST yk340f7.5 comes from this gene [Caenorhabditis elegans]	3e-006

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3470	AB018327	Homo sapiens mRNA for KIAA0784 protein, partial cds	9.00E-88	3882289	(AB018327) KIAA0784 protein [Homo sapiens]	9e-022
3471	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0002	<NONE>	<NONE>	<NONE>
3472	U67524	Methanococcus jannaschii section 66 of 150 of the complete genome	4.10E-02	140229	HYPOTHETICAL 82 KD AVIRULENCE PROTEIN IN AVRBS3 REGION >gi|77844|pir||JQ0317 hypothetical 82K protein - Xanthomonas campestris pv. vesicatoria	7.3
3473	L13972	Homo sapiens beta-galactoside alpha-2,3-sialyltransferase (SIAT4A) mRNA, complete cds	0.005	<NONE>	<NONE>	<NONE>
3474	L13972	Homo sapiens beta-galactoside alpha-2,3-sialyltransferase (SIAT4A) mRNA, complete cds	0.005	<NONE>	<NONE>	<NONE>
3475	AL031222	Caenorhabditis elegans cosmid 6R55, complete sequence [Caenorhabditis elegans]	1.10E-01	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3476	AF070529	Homo sapiens clone 24525 mRNA sequence	0	3879532	(Z49130) cDNA EST EMBL:D74028 comes from this gene; cDNA EST EMBL:D71354 comes from this gene; cDNA EST EMBL:D76320 comes from this gene; cDNA EST yk486c7.3 comes from this gene; cDNA EST yk486c7.5 comes from this gene; cDNA...	1.50E+00
3477	U02567	Mus musculus BALB/c T-cell antigen 4-1BB gene, complete cds.	1.30E-01	2414601	(Z99295) phosphatidyl synthase	5e-005
3478	AB018327	Homo sapiens mRNA for KIAA0784 protein, partial cds	9.00E-88	3882289	(AB018327) KIAA0784 protein [Homo sapiens]	9e-022
3479	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2315521	(AF016452) similar to the beta transducin family	2e-006
3480	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
3481	Y09077	H.sapiens mRNA for atr gene > :: gb|U76308|HSU76308 Human protein kinase ATR mRNA, complete cds > :: emb|A61385|A61385 Sequence 1 from Patent WO9709433	0	1235902	(U49844) FRAP-related protein [Homo sapiens]	3e-051

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3482	Z48633	H.sapiens mRNA for retrotransposon.	e-165	1177607	(X92485) pval [Plasmodium vivax]	1.9
3483	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-013	111978	mucin - rat	2.6
3484	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.4
3485	X77335	A.thaliana gene for methyltransferase	0.13	1401051	(U24160) similar to Dvl-1 product encoded by GenBank Accession Number U10115; dishevelled segment polarity protein homolog [Mus musculus]	3.5
3486	AF038660	Homo sapiens chromosome 1p33-p34 beta-1,4-galactosyltransferase mRNA, complete cds	e-144	2995442	(Y12510) UDPGal:GlcNAc b1,4 galactosyltransferase [Homo sapiens]	9e-005
3487	U65960	Human kinase substrate HASPP28 gene, 5' flanking region and partial cds	1e-021	2120084	reverse transcriptase - mouse >gi|558908	9.7
3488	AF058907	Homo sapiens pleiotrophin (PTN) gene, exons UV3, UV2 and UV1	8e-060	120806	GAG POLYPROTEIN (CONTAINS: CORE PROTEIN P15; INNER COAT PROTEIN P12; CORE SHELL PROTEIN P30) >gi|74562|pir||FOVDA gag polyprotein - avian spleen necrosis virus (fragment)	5e-005

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					>gi|61758 (V01200) reading frame (gag?) [Spleen necrosis virus]	
3489	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	3123086	HYPOTHETICAL PROTEIN MJ1050 Methanococcus jannaschii >gi|1499895 (U67548) conserved hypothetical protein [Methanococcus jannaschii]	2.5
3490	AF035940	Homo sapiens MAGOH mRNA, complete cds	5e-096	3879018	(Z81108) similar to MAGO NASHI PROTEIN; cDNA EST yk415g7.3 comes from this gene; cDNA EST yk425g2.3 comes from this gene; cDNA EST yk425g2.5 comes from this gene; cDNA EST yk415g7.5 comes from this gene; cDNA EST yk376g9.3 c...	5e-027
3491	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-013	3201662	(AF042191) paraxial protocadherin; PAPC [Danio rerio]	3.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3492	S80107	membrane-associated diazepam binding inhibitor	e-113	244503	(S80107) membrane-associated diazepam binding inhibitor, MA-DBI [cattle, brain, Peptide, 552 aa] [Bos taurus]	2e-030
3493	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-12	<NONE>	<NONE>	<NONE>
3494	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-015	728834	!!!! ALU SUBFAMILY SB2 WARNING ENTRY	0.29
3495	U32794	Haemophilus influenzae Rd section 109 of 163 of the complete genome	1.3	2369865	(Y14131) RNA polymerase [grapevine leafroll-associated virus 2]	5.1
3496	AF030558	Rattus norvegicus phosphatidylinositol 5-phosphate 4-kinase gamma mRNA, complete cds	1e-013	<NONE>	<NONE>	<NONE>
3497	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	e-121	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|gnl|PID|d1005029 (D17577) Kif1b [Mus musculus]	1e-048
3498	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	3881824	(Z73899) ZK829.5 [Caenorhabditis elegans]	1.5
3499	L35657	Homo sapiens (subclone H8 5_a10 from P1 35 H5 C8) DNA sequence.	2e-018	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3500	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
3501	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
3502	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
3503	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	2661842	(Y15732) DNA polymerase beta [Xenopus laevis]	4e-016
3504	U65960	Human kinase substrate HASPP28 gene, 5' flanking region and partial cds	1e-021	2120084	reverse transcriptase - mouse >gi|558908	9.7
3505	L19031	Rattus norvegicus organic anion transporter	3e-030	1171883	SODIUM-INDEPENDENT ORGANIC ANION TRANSPORTER (ORGANIC ANION TRANSPORTING POLYPEPTIDE) anion - rat >gi|410311 (L19031) oatp [Rattus norvegicus]	2e-025
3506	U60337	Homo sapiens beta-mannosidase mRNA, complete cds	0	3024091	BETA-MANNOSIDASE PRECURSOR beta-mannosidase [Homo sapiens]	2e-085
3507	X92841	H.sapiens MICA gene	1e-055	106322	hypothetical protein (L1H 3' region) - human	1e-009

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3508	U50535	Human BRCA2 region, mRNA sequence CG006	4e-012	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	4.2
3509	AF029984	Lycopersicon esculentum COP1 homolog (COP1) mRNA, complete cds	5e-035	3121867	COP1 REGULATORY PROTEIN sativum]	9e-052
3510	Z59258	H.sapiens CpG DNA, clone 13d2, reverse read cpg13d2.rt1c .	2e-046	3219914	HYPOTHETICAL 16.8 KD PROTEIN C30D10.04 IN CHROMOSOME II >gi|2276353|gnl|PID|e330328 pombe]	2e-009
3511	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
3512	AF004161	Oryctolagus cuniculus peroxisomal Ca-dependent solute carrier mRNA, complete cds	9e-030	2352427	(AF004161) peroxisomal Ca-dependent solute carrier	1e-025
3513	U15643	Drosophila melanogaster ribosomal protein DL11 mRNA, complete cds	0.13	<NONE>	<NONE>	<NONE>
3514	U15643	Drosophila melanogaster ribosomal protein DL11 mRNA, complete cds	0.13	<NONE>	<NONE>	<NONE>
3515	X87212	H.sapiens mRNA for cathepsin C	e-103	1705632	DIPEPTIDYL-PEPTIDASE I PRECURSOR TRANSFERASE) >gi|2146949|pir||S66504 dipeptidyl-peptidase I (EC 3.4.14.1) precursor - human sapiens]	3e-034

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3516	U28789	Mus musculus p53-associated cellular protein PACT mRNA, partial cds	e-101	<NONE>	<NONE>	<NONE>
3517	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	127112	MAK16 PROTEIN >gi|73269|pir||BV BYK6 MAK16 protein - yeast (Saccharomyces cerevisiae) cerevisiae] >gi|595561 (U12980) Mak16p: putative nuclear protein [Saccharomyces cerevisiae]	5e-022
3518	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
3519	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	2650142	(AE001070) A. fulgidus predicted coding region AF0495	0.38
3520	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	2500418	40S RIBOSOMAL PROTEIN S5 >gi|1203905	1.6
3521	AF004161	Oryctolagus cuniculus peroxisomal Ca-dependent solute carrier mRNA, complete cds	9e-030	2352427	(AF004161) peroxisomal Ca-dependent solute carrier	1e-025

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3522	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	121743	GTPASE-ACTIVATING PROTEIN (GAP) (RAS P21 PROTEIN ACTIVATOR) (P120GAP) (RASGAP) human >gi|182972 (M23379) GTPase-activating protein activating protein [Homo sapiens]	2.8
3523	Z46372	R.norvegicus RNA for DNA topoisomerase II.	e-131	3876360	(Z68315) Similarity to Human MAP kinase phosphatase-1 (SW:PTN7_HUMAN) [Caenorhabditis elegans]	3e-011
3524	X85060	B.taurus cosmid-derived microsatellite DNA	1e-051	2072972	(U93572) putative p150 [Homo sapiens]	1e-019
3525	D86407	Homo sapiens DNA for apoER2, complete cds, and exon 19	0	3322933	(AE001238) DNA ligase (lig) [Treponema pallidum]	7.5
3526	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	e-130	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|gnl|PID|d1005029 (D17577) Kif1b [Mus musculus]	1e-049
3527	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	2414623	(Z99259) putative phosphotransferase	4e-009
3528	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	1e-075	2076895	(AF002197) F20H11.2 gene product [Caenorhabditis elegans]	8e-057

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3529	X54326	H.sapiens mRNA for glutaminyl-tRNA synthetase	0	135104	MULTIFUNCTIONAL AMINOACYL-TRNA SYNTHETASE (CONTAINS: GLUTAMYL-TRNA SYNTHETASE glutamyl-prolyl-tRNA synthetase - human >gi|31958	3e-032
3530	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13.	3e-039	2072955	(U93566) p40 [Homo sapiens]	7.8
3531	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13.	3e-039	2072955	(U93566) p40 [Homo sapiens]	7.8
3532	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13.	1e-040	2072955	(U93566) p40 [Homo sapiens]	0.012
3533	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13.	1e-040	2072955	(U93566) p40 [Homo sapiens]	0.012
3534	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	3808228	(AF039080) RNA dependent RNA polymerase [Sphaeropsis sapinea RNA virus 2]	1.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3535	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
3536	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	3e-060	2078282	(U95760) Sno [Drosophila melanogaster]	1e-042
3537	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.13	2832777	(AL021086) 1-evidence=predicted by match; 1-match_accession=AA202870; 1-match_description=LD03215.5prime LD Drosophila melanogaster embryo BlueScript Drosophila melanogaster cDNA clone LD03215 5prime.; 1-match_species=Drosop...	4e-018
3538	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	1e-075	2076895	(AF002197) F20H11.2 gene product [Caenorhabditis elegans]	8e-057
3539	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	9e-061	913042	hepatocyte nuclear factor 3 beta, HNF3 beta	2e-014
3540	X83416	H.sapiens PrP gene, exon 2	e-169	1172651	PROTEASE PRTH >gi|440338 (L27483) neutral protease large subunit [Porphyromonas gingivalis]	6.2
3541	AF061016	Homo sapiens UDP-glucose dehydrogenase (UGDH) mRNA, complete cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3542	X07290	Human HF.12 gene mRNA	7e-080	1127843	(U41164) Cys2/His2 zinc finger protein [Rattus norvegicus]	1e-034
3543	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.00E-12	<NONE>	<NONE>	<NONE>
3544	U95760	Drosophila melanogaster strawberry notch (sno) mRNA, complete cds	3e-060	2078282	(U95760) Sno [Drosophila melanogaster]	1e-042
3546	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	1255409	(U53153) similar to mouse bullous pemphigoid antigen, BPAG2 (PIR:A46053) [Caenorhabditis elegans]	7.3
3547	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.9
3548	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
3549	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	84605	glycine-rich protein GRP33 - brine shrimp	4.4
3550	X83212	H.sapiens tryptophan hydroxylase gene, promoter region	5e-013	807677	(M13101) unknown protein [Rattus norvegicus]	0.39
3551	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3552	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	310622	(L20249) homologous to Saccharopolyspora erythraea beta-ketoacyl synthase [Streptomyces coriofaciens]	0.4
3553	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
3554	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-007	2996640	(AC004500) GDF-9 [Homo sapiens]	8.2
3555	Z35928	S.cerevisiae chromosome II reading frame ORF YBR059c	0.043	2384728	(AF015883) hydroxyproline-rich glycoprotein gas28p precursor [Chlamydomonas reinhardtii]	0.23
3556	Z30174	M.domesticus (C57Bl/6J) mRNA for zinc finger protein 30	2e-037	543345	zinc finger protein 30 - mouse domesticus]	1e-020
3557	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3558	M36072	Human ribosomal protein L7a (surf 3) large subunit mRNA, complete cds.	1e-054	133014	60S RIBOSOMAL PROTEIN L7A (PLA-X POLYPEPTIDE) (SURF-3) >gi|71116|pir||R5HU7A ribosomal protein L7a - human >gi|71117|pir||R5RT7A ribosomal protein L7a - rat >gi|34203 (X52138) L7a protein [Homo sapiens] >gi|35512	0.019

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					(X06705) PLA-X polypeptide [Homo sapiens]	
3559	U84720	Homo sapiens mRNA export protein (RAE1) mRNA, complete cds	2e-037	<NONE>	<NONE>	<NONE>
3560	AE001054	Archaeoglobus fulgidus section 53 of 172 of the complete genome	1.2	<NONE>	<NONE>	<NONE>
3561	U34683	Human glutathione synthetase mRNA, complete cds	3e-052	1346191	GLUTATHIONE SYNTHETASE (GLUTATHIONE SYNTHASE) (GSH SYNTHETASE) (GSH-S) sapiens] >gi|1236350 (U34683) glutathione synthetase	1e-014
3562	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-015	1825695	(U88180) similar to molybdenum cofactor biosynthesis protein E [Caenorhabditis elegans]	4e-012
3563	AE001421	Plasmodium falciparum chromosome 2, section 58 of 73 of the complete sequence	0.005	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3564	D10871	Human h NAT allele 2-2 gene for arylamine N-acetyltransferase	5e-016	3915580	ZINC FINGER PROTEIN 186 finger protein [Homo sapiens]	0.96
3565	M32251	Cat LINE-1 DNA sequence region 1.	2e-026	87765	hypothetical L1 protein (third intron of gene TS) - human >gi|364964|prf||1510254A L1 repetitive element ORF [Homo sapiens]	2e-011
3566	Y12773	H.sapiens TRIDENT/HFH1 1 gene, promoter sequence	3e-008	<NONE>	<NONE>	<NONE>
3567	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>
3568	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3569	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-009	136821	HYPOTHETICAL PROTEIN UL13 precursor - human cytomegalovirus (strain AD169)	6
3570	AF039210	Homo sapiens caspase-activated nuclease mRNA, complete cds	e-104	3347857	(AF064019) DNA fragmentation factor 40 kDa subunit [Homo sapiens] >gi|3410909|gnl|PID|d1033212 (AB013918) CAD	1e-024
3571	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2132458	probable membrane protein YDL211c - yeast	7.5
3572	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.39

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
		cds				
3573	U22233	Human methylthioadenosine phosphorylase (MTAP) mRNA, complete cds.	2e-015	2494053	5'-METHYLTHIOADENOSINE PHOSPHORYLASE (MTA PHOSPHORYLASE) (MTAPASE) phosphorylase (EC 2.4.2.28) - human >gi|847724 (U22233) methylthioadenosine phosphorylase [Homo sapiens]	0.02
3574	X76122	A.majus cyclin-1 mRNA.	3.2	2135633	MHC cell surface glycoprotein - human sapiens]	9
3575	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	699508	(U20542) lethal(1)1Bi protein [Drosophila melanogaster]	0.64
3576	D13391	Human CYP19 gene for aromatase cytochrome P-450, promoter region (containing two cis-acting transcriptional regulatory elements)	2e-018	<NONE>	<NONE>	<NONE>
3577	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	532806	(U13875) C26E6.5 gene product [Caenorhabditis elegans]	5e-045
3578	X63735	H.sapiens TRE5 and TRE18 sequence of the tre oncogene	4e-033	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	9e-006
3579	AC004497	Homo sapiens chromosome 21, P1 clone	0.0005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		LBNL#6				
3580	AB003095	Fruitfly strain SI259 mitochondrial DNA, A+T-rich region, partial sequence	0.12	<NONE>	<NONE>	<NONE>
3581	Z36019	S.cerevisiae chromosome II reading frame ORF YBR150c	3.2	4107113	(AB007462) Pax-2/5/8 [Ephydatia fluviatilis]	5.3
3582	Z56421	H.sapiens CpG DNA, clone 117c7, reverse read cpg117c7.rt1a .	1e-033	3876101	(Z75536) similar to DnaJ domain; cDNA EST yk398h12.5 comes from this gene; cDNA EST yk250d6.5 comes from this gene [Caenorhabditis elegans]	1e-040
3583	U36499	Human lymphoid-specific SP100 homolog (LYSP100-A) mRNA, complete cds	5e-015	1362890	phosphoprotein 75 - human >gi|402148	1e-008
3584	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	5e-005	<NONE>	<NONE>	<NONE>
3585	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	1045228	(X92429) Synthetase [Streptomyces anulatus]	0.84
3586	D86963	Human mRNA for KIAA0208 gene, complete cds	0.04	<NONE>	<NONE>	<NONE>
3587	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3588	AB012113	Homo sapiens gene for CC chemokine PARC precursor, complete cds	0.0002	1723187	112.3 KD PROTEIN IN PYK1-SNC1 INTERGENIC REGION >gi|2131258|pir||S 70292 FUN12 protein Fun12p: 97kDa protein, function unknown [Saccharomyces cerevisiae]	4.2
3589	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-007	<NONE>	<NONE>	<NONE>
3590	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.002	<NONE>	<NONE>	<NONE>
3591	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-005	<NONE>	<NONE>	<NONE>
3592	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.8
3593	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-006	<NONE>	<NONE>	<NONE>
3594	M80938	Oryza sativa 16.9 kDa heat shock protein gene, complete cds.	1.5	<NONE>	<NONE>	<NONE>
3595	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3596	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
3597	X67813	C.familiaris SRP72 mRNA for signal recognition particle	4e-083	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.2
3598	AB007930	Homo sapiens mRNA for KIAA0461 perotein, partial cds	3e-038	3413884	(AB007930) KIAA0461 perotein [Homo sapiens]	3e-016
3599	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-007	3093586	(AF018165) amyloid precursor protein [Tetraodon fluviatilis]	2.7
3600	Z35102	H.sapiens mRNA for Ndr protein kinase > :: emb|A52140|A52140 Sequence 6 from Patent WO9619579	e-126	2135799	Ndr protein kinase - human >gi|854170	9e-086
3601	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
3602	X51544	Synthetic hamster-human hybrid cell (HCH-1) HSAG-2 gene Alu repeat region.	0.13	1706266	SULFATE ADENYLATE TRANSFERASE SUBUNIT 2 (ATP-SULFURYLASE) >gi|1322409|gnl|PID|e243270	5.8
3603	Z98237	H.sapiens DNA for exon trapped sequence	3e-051	3979947	(AL034393) Y18D10A.15 [Caenorhabditis elegans]	6e-005
3604	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	7e-005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3605	M57465	N.crassa phytoene dehydrogenase (al-1) gene, complete cds.	0.29	<NONE>	<NONE>	<NONE>
3606	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
3607	S71335	Aox1=alternative oxidase {alternative pathway} suspension cells, mRNA, 1408 nt]	1.1	<NONE>	<NONE>	<NONE>
3608	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	2621440	(AE000823) O-antigen transporter related protein	5.7
3609	U36199	Caenorhabditis elegans CeMef-2 (mef-2) gene, complete cds.	1.1	259519	(S48091) NSM [tomato spotted wilt virus TSWV, Peptide, 302 aa] [Tomato spotted wilt virus]	4.1
3610	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.35	3399767	(U76298) uclacyanin I [Arabidopsis thaliana] >gi|3831466	0.35
3611	AF000590	Homo sapiens chromosome 21q11-q21 genomic clone SA-292	7e-026	<NONE>	<NONE>	<NONE>
3612	U64195	HIV-1 isolate ZP36 from Australia, reverse transcriptase (pol) gene, partial cds.	1.2	<NONE>	<NONE>	<NONE>
3613	AB015331	Homo sapiens HRIHFB2017 mRNA, partial cds	1e-094	3970852	(AB015331) HRIHFB2017 [Homo sapiens]	0.0001
3614	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3615	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	1743885	(U79716) Human Reelin [Homo sapiens]	9.5
3616	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-006	<NONE>	<NONE>	<NONE>
3617	<NONE>	<NONE>	<NONE>	2338034	(AF005370) putative immediate early protein [Alcelaphine herpesvirus 1]	2e-008
3618	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.006	2707286	(AF036316) cyclin [Prorocentrum minimum]	1.2
3619	X79810	R.norvegicus CYP2C13 gene	0.049	2916892	(AL022004) PE_PGRS [Mycobacterium tuberculosis]	1
3620	AJ224516	Gallus gallus IL-2 gene	1.4	<NONE>	<NONE>	<NONE>
3621	Z79044	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA21C9	0.42	<NONE>	<NONE>	<NONE>
3622	U39357	Ovis aries beta actin mRNA, complete cds	2e-024	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.3
3623	U39357	Ovis aries beta actin mRNA, complete cds	1e-043	940346	(U20963) ORF1; late mRNA [Suid herpesvirus 1]	5.6
3624	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3e-008	2702361	(AF036706) No definition line found [Caenorhabditis elegans]	0.22
3625	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.041	244874	Glvr-1 product [mice, Peptide, 681 aa]	1.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3626	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3627	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	1730141	FRAGILE X MENTAL RETARDATION SYNDROME RELATED PROTEIN 2 >gi|2135129|pir||S 60173 fragile X mental retardation syndrome related protein - human >gi|1098637 (U31501) fragile X mental retardation syndrome related protein [Homo sapiens]	9.4
3628	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
3629	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
3630	D87671	Rat mRNA for TIP120, complete cds	0	1799570	(D87671) TIP120 [Rattus norvegicus]	e-112
3631	D87671	Rat mRNA for TIP120, complete cds	0	1799570	(D87671) TIP120 [Rattus norvegicus]	e-110
3632	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3633	D88349	Chicken mRNA for tyrosinase, complete cds	0.12	2144081	luteinizing hormone/chorionic gonadotropin receptor - rat >gi|252167|bbs|109910 (S40803) luteinizing hormone/chorionic gonadotropin receptor, LH/CG receptor {alternatively spliced, clone rLHR1834}	9.3
3634	X17206	Human mRNA for LLRep3	3e-025	2920827	(U92697) ribosomal protein S2 [Rattus norvegicus]	0.0003
3635	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.3
3636	X69878	H.sapiens Flt4 mRNA for transmembrane tyrosine kinase	2e-088	<NONE>	<NONE>	<NONE>
3637	X69878	H.sapiens Flt4 mRNA for transmembrane tyrosine kinase	2e-088	<NONE>	<NONE>	<NONE>
3638	X15509	Human gene for thymidine kinase, 5' region (EC 2.7.1.21)	4e-011	<NONE>	<NONE>	<NONE>
3639	U89744	Rattus norvegicus putative cell surface antigen mRNA, complete cds	0.39	1085432	mucin (clone PGM-2A) - pig	0.0006
3640	L29252	Human (clone D13-2) L-iditol-2 dehydrogenase gene, exon 4, exon 5, exon 6 and exon 7.	3e-006	83981	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 4 - Sauroleishmania tarentolae mitochondrion	2.4

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3641	Z35286	H.sapiens MDR3 gene, exon1, exon2	0.016	<NONE>	<NONE>	<NONE>
3642	M11373	Simian T-cell leukemia virus, pol-env-pX-3' LTR region.	0.39	2773324	(AF040381) carbonic anhydrase [Erwinia carotovora]	5.9
3643	M11373	Simian T-cell leukemia virus, pol-env-pX-3' LTR region.	0.39	2773324	(AF040381) carbonic anhydrase [Erwinia carotovora]	5.9
3644	Z11763	O.granulifera gene for alpha-tubulin	0.39	2138321	(U89012) dentin matrix acidic phosphoprotein 1 [Homo sapiens]	2.6
3645	<NONE>	<NONE>	<NONE>	1352944	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR YJR151c - yeast (Saccharomyces cerevisiae) >gi|1015903	3.9
3646	U18351	Drosophila melanogaster insulin receptor gene, complete cds	0.005	1468983	(U64830) protein tyrosine kinase [Dictyostelium discoideum]	4e-012
3647	M28458	Human growth hormone receptor gene, exon 2.	1.2	2648877	(AE000987) A. fulgidus predicted coding region AF1681	8.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3648	AF069139	HIV-1 isolate DH12 clone 5 from the USA, vpr protein (vpr) gene, partial cds; tat protein (tat) and rev protein (rev) genes, complete cds; vpu pseudogene, complete sequence; envelope glycoprotein (env) and nef protein (n...	0.13	<NONE>	<NONE>	<NONE>
3649	U42627	Rattus norvegicus tyrosine phosphatase mRNA, complete cds.	0.41	1070602	collagen alpha 1(II) chain precursor - human	0.55
3650	Y12851	Homo sapiens P2X7 gene, exon 1 and joined CDS	0.005	<NONE>	<NONE>	<NONE>
3651	U39706	Mycoplasma genitalium section 28 of 51 of the complete genome	0.39	465542	HYPOTHETICAL 20.0 KD PROTEIN IN TRNP 5'REGION (ORF160) >gi|625956|pir||S38599 hypothetical protein 160 (rpl20 5' region) - euglenid (Astasia longa) plastid	2
3652	Z80361	H.sapiens HLA-DRB pseudogene, repeat region;	2e-048	<NONE>	<NONE>	<NONE>
3653	U12171	Oryza sativa IR54 anther specific (RTS2) gene, complete cds.	3.5	<NONE>	<NONE>	<NONE>
3654	AG001163	Homo sapiens genomic DNA, 21q region, clone: Q94A10X26	5e-014	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.004
3655	X04780	Human tRNA-Tyr-pseudogene (clone pHtT2)	4.6	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3656	AF086264	Homo sapiens full length insert cDNA clone ZD43A10	0.002	<NONE>	<NONE>	<NONE>
3657	AB011118	Homo sapiens mRNA for KIAA0546 protein, partial cds	0.002	1588661	tryptase [Bos taurus]	1.3
3658	Z46379	Homo sapiens mRNA for anti-Sm antibody VH chain	0.13	<NONE>	<NONE>	<NONE>
3659	Y12930	H.rustica CHD-W gene, intron	0.39	3861232	(AJ235272) PROBABLE TRANSPORT ATP-BINDING PROTEIN MSBA (msbA2) [Rickettsia prowazekii]	1.2
3660	AF093267	Rattus norvegicus homer-1b mRNA, complete cds	0.005	<NONE>	<NONE>	<NONE>
3661	M34057	Human transforming growth factor-beta 1 binding protein mRNA, complete cds.	0.043	<NONE>	<NONE>	<NONE>
3662	X75418	H.sapiens TCR V Beta 13.2 gene (allele a).	0.4	<NONE>	<NONE>	<NONE>
3663	Z68758	Human DNA sequence from cosmid cN85E10 on chromosome 22q11.2-qter	2e-025	3399771	(AF041839) Smad6 [Xenopus laevis]	0.39
3664	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	2078282	(U95760) Sno [Drosophila melanogaster]	0.0006
3665	Z75032	S.cerevisiae chromosome XV reading frame ORF YOR124c	0.14	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3666	U28831	Human protein immuno-reactive with anti-PTH polyclonal antibodies mRNA, partial cds. > :: gb|I40055|I40055 Sequence 1 from patent US 5618695	0	896065	(U28831) protein that is immuno-reactive with anti-PTH polyclonal antibodies [Homo sapiens]	e-100
3667	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.04	<NONE>	<NONE>	<NONE>
3668	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3669	Z96359	H.sapiens telomeric DNA sequence, clone 17QTEL013, read 17QTELOO013.seq	7e-006	2921609	(AF039037) 980219 -this used to be part of R02C2.4 but was split into two genes based on protein similarities	7.7
3670	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-008	3342730	(AC005331) R31341_1 [Homo sapiens]	2e-019
3671	U22460	Ictalurus punctatus heat shock protein 70 (CF Hsp70) mRNA, complete cds.	1.2	2143951	Ras-related protein - rat >gi|498257	5e-009
3672	Y12259	R.norvegicus mRNA for Kir3.1 protein	0.005	135213	TYPE IIS RESTRICTION ENZYME ECO57I METHYLTRANSFERASE ACTIVITY >gi|281976|pir||S26426 type II site-specific deoxyribonuclease (EC 3.1.21.4) Eco57I endonuclease	9.9

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					[Escherichia coli]	
3673	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	3006154	(AL022299) putative cytochrome c1, heme protein precursor [Schizosaccharomyces pombe]	4.5
3674	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	3915503	HYPOTHETICAL OXIDOREDUCTASE IN CHEV-MOBA INTERGENIC REGION >gi|2632227|gnl|PID|e1181911 1-dehydrogenase [Bacillus subtilis]	2e-021
3675	U71363	Human zinc finger protein zfp6 (ZF6) mRNA, partial cds	3e-070	2689441	(AC003682) F18547_1 [Homo sapiens]	4e-029
3676	AF042275	Oryza sativa anther-specific protein gene, complete cds	0.39	<NONE>	<NONE>	<NONE>
3677	M34601	P.berghei telomeric repeat region subfragment alpha DNA.	0.13	<NONE>	<NONE>	<NONE>
3678	U09368	Human zinc finger protein ZNF140	6e-047	3445181	(AC005498) R31665_2 [Homo sapiens]	4e-027
3679	D90345	Rat t complex polypeptide 1 (Tcp-1) mRNA	0.13	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3680	AE000758	Aquifex aeolicus section 90 of 109 of the complete genome	0.38	134134	RYANODINE RECEPTOR, SKELETAL MUSCLE muscle - rabbit >gi|1710 (X15750) ryanodine receptor (AA 1-5037) [Oryctolagus cuniculus] >gi|1714 (X15209) ryanodine receptor [Oryctolagus cuniculus]	9.8
3681	X60280	Vector plasmid pLTRpoly DNA	3e-040	2981631	(AB012223) ORF2 [Canis familiaris]	0.87
3682	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.8
3683	L81683	Homo sapiens (subclone 1_d11 from P1 H54) DNA sequence	3e-019	113668	!!!! ALU CLASS C WARNING ENTRY !!!!	2
3684	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.7
3685	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.8
3686	X78261	H.sapiens mRNA for TRE17 5' extremity and unnamed adjacent to TRE17, locus tre-1.	3e-010	728836	!!!! ALU SUBFAMILY SP WARNING ENTRY	4.4
3687	AF093204	Gallus gallus clone Ocya1 unknown mRNA	1e-011	3694883	(AF093204) unknown [Gallus gallus]	0.097
3688	L35664	Homo sapiens (subclone H8 8_f5 from P1 35 H5 C8) DNA	3e-031	2072966	(U93570) p40 [Homo sapiens]	8e-006

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		sequence.				
3689	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3690	L10111	Octopus dofleini beta-tubulin mRNA, complete cds.	0.14	<NONE>	<NONE>	<NONE>
3691	S83333	CYP27=sterol 27-hydroxylase/cerebrotendinous xanthomatosis candidate gene {3' region, intron 6 to intron 8} [human, Genomic, 1725 nt, segment 4 of 4]	3.5	<NONE>	<NONE>	<NONE>
3692	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
3693	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	220578	(D00570) open reading frame (251 AA)	1.1
3694	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	416563	INTESTINAL MEMBRANE A4 PROTEIN A4 differentiation-dependent protein [Homo sapiens]	0.021
3695	AB018374	Mus musculus GARP34 mRNA, complete cds	4e-074	3724364	(AB018374) GARP34 [Mus musculus]	2e-017
3696	AB018374	Mus musculus GARP34 mRNA, complete cds	4e-074	3724364	(AB018374) GARP34 [Mus musculus]	2e-017
3697	AB013721	Oryctolagus cuniculus mRNA for mitsugumin 23, complete cds	4e-038	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3698	U33147	Human mammaglobin mRNA, complete cds > :: gb|I65735|I65735 Sequence 1 from patent US 5668267	1.1	1946371	(U93215) regulatory protein Viviparous-1 isolog	2.5
3699	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0006	2132981	probable membrane protein YPL105c - yeast	5.1
3700	U08802	HIV-1 sample 026 clone 06 from Thailand partial cds.	0.47	3880139	(Z68121) Similarity to Yeast nitrogen regulatory protein GLN3 (PIR Acc. No. S22280)	7.3
3701	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-011	<NONE>	<NONE>	<NONE>
3702	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3703	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>
3704	Z56740	H.sapiens CpG DNA, clone 13b5, reverse read cpg13b5.rt1c .	4e-043	2465332	(U92819) unnamed HERV-H protein [Homo sapiens]	0.007
3705	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-008	<NONE>	<NONE>	<NONE>
3706	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	1293790	(U56248) Similar to polyketide synthase. [Caenorhabditis briggsae]	2.9

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3707	AF023283	Chikungunya virus S27 3'UTR	0.39	3560261	(AL031535) RNA binding protein	4.5
3708	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
3709	AF030944	Brugia malayi microfilarial sheath protein SHP3a	0.12	<NONE>	<NONE>	<NONE>
3710	AE000700	Aquifex aeolicus section 32 of 109 of the complete genome	0.15	<NONE>	<NONE>	<NONE>
3711	AJ001050	Homo sapiens mRNA for thioredoxin reductase	4e-042	1843434	(D88687) KM-102-derived reductase-like factor [Homo sapiens]	3e-038
3712	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.002	625090	(U19464) outer arm dynein beta heavy chain [Paramecium tetraurelia] >gi|1588498|prf||2208428A dynein:SUBUNIT =heavy chain [Paramecium tetraurelia]	2.7
3713	AG001414	Homo sapiens genomic DNA, 21q region, clone: 9H11X4	0.46	<NONE>	<NONE>	<NONE>
3714	AB007930	Homo sapiens mRNA for KIAA0461 perotein, partial cds	0	3413884	(AB007930) KIAA0461 perotein [Homo sapiens]	2e-068
3715	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-007	<NONE>	<NONE>	<NONE>
3716	Y09999	H.sapiens CHOP gene, intron 1	2e-007	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3717	AF023461	Homo sapiens FRA3B region sequence	0.13	2501500	ECDYSTEROID UDP-GLUCOSYLTRANSFERASE PRECURSOR >gi|1563727|gnl|PID|e267373 (Y08294) ecdysteroid UDP-glucosyltransferase [Lacanobia oleracea granulovirus]	5.6
3718	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	2330794	(Z98601) hypothetical protein	0.004
3719	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	1363246	TIF1 protein - mouse >gi|998815|bbs|167126	5e-007
3720	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	1314732	(U54640) 185 kDa silk protein [Chironomus pallidivittatus]	0.17
3721	U09933	Human urokinase-type plasminogen receptor, exon 3	5e-025	3523099	(AF016271) Ksp-cadherin [Mus musculus]	7.6
3722	M30187	S.cerevisiae mitochondrion Tyr-tRNA gene.	0.13	218437	(D90352) myo-inositol transporter	7.3
3723	X79703	O.aries gene for beta-casein	0.043	141103	HYPOTHETICAL PROTEIN ORF-1137 mouse	4.5
3724	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-009	2132008	hypothetical protein YOL072w - yeast	9.9
3725	L39210	Homo sapiens inosine monophosphate dehydrogenase type II gene, complete cds	2e-078	2224711	(AB002383) KIAA0385 [Homo sapiens]	2e-018

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3726	U52832	Homo sapiens Cri-du-chat region mRNA, clone CSC3	2e-005	<NONE>	<NONE>	<NONE>
3727	AF015043	Homo sapiens EH-binding protein mRNA, partial cds	e-169	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
3728	D28485	Human MSMB gene for beta-microseminoprotein (MSP), promoter region and exon1	4e-011	<NONE>	<NONE>	<NONE>
3729	M33027	Human vasoactive intestinal peptide/PHM-27 gene, exons 1-6.	0.043	<NONE>	<NONE>	<NONE>
3730	X15377	Human gene for the light and heavy chains of myeloperoxidase	2e-024	1346141	GLYCEROL KINASE (ATP:GLYCEROL 3-PHOSPHOTRANSFERASE) (GLYCEROKINASE) (GK) Mycoplasma genitalium (SGC3) >gi|3844648 (U39683) glycerol kinase (glpK) [Mycoplasma genitalium]	3e-011
3731	X57103	Human h-lys gene for lysozyme (upstream region)	0.0005	<NONE>	<NONE>	<NONE>
3732	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	3319482	(AF077546) No definition line found [Caenorhabditis elegans]	9.8
3733	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3734	U83857	Human Aac11 (aac11) mRNA, complete cds	2e-027	2623755	(U35846) unknown [Mus musculus]	3e-005
3735	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.5
3736	U09367	Human zinc finger protein ZNF136	1e-065	1731412	ZINC FINGER PROTEIN 136 human >gi|487785 (U09367) zinc finger protein ZNF136	7e-060
3737	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	2507475	PAIRED AMPHIPATHIC HELIX PROTEIN	5.8
3738	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	3702452	(X80031) type IV collagen alpha 3 chain	1.5
3739	AF086022	Homo sapiens full length insert cDNA clone YW23E02	3.5	<NONE>	<NONE>	<NONE>
3740	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	2960225	(AL022120) PPE [Mycobacterium tuberculosis]	7.4
3741	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
3742	AJ005866	Homo sapiens mRNA for putative Sqv-7-like protein, partial	e-177	4008517	(AJ005866) Sqv-7-like protein [Homo sapiens]	9e-045

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3743	AF043231	Emericella nidulans cAMP-dependent protein kinase regulatory subunit (pkaR) gene, complete cds	1.1	<NONE>	<NONE>	<NONE>
3744	AB002319	Human mRNA for KIAA0321 gene, partial cds	5e-066	2224583	(AB002319) KIAA0321 [Homo sapiens]	2e-024
3745	M33132	Human proliferating cell nucleolar protein P120 gene, exons 1-15.	8e-018	113668	!!!! ALU CLASS C WARNING ENTRY !!!!	0.077
3746	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	2394463	(AF024498) No definition line found [Caenorhabditis elegans]	1.2
3747	Z69944	S.pombe chromosome I cosmid c1F12.	4.4	<NONE>	<NONE>	<NONE>
3748	Z81014	Human DNA sequence from cosmid U65A4, between markers DXS366 and DXS87 on chromosome X *	4e-022	896065	(U28831) protein that is immuno-reactive with anti-PTH polyclonal antibodies [Homo sapiens]	0.075
3749	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	3877203	(Z70780) similar to initiation factor IF-2; cDNA EST CEMSD25F comes from this gene	4.4
3750	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
3751	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	2065210	(Y12713) Pro-Pol-dUTPase polyprotein	2

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3752	M36072	Human ribosomal protein L7a (surf 3) large subunit mRNA, complete cds.	1e-054	133014	60S RIBOSOMAL PROTEIN L7A (PLA-X POLYPEPTIDE) (SURF-3) >gi|71116|pir||R5HU7A ribosomal protein L7a - human >gi|71117|pir||R5RT7A ribosomal protein L7a - rat >gi|34203 (X52138) L7a protein [Homo sapiens] >gi|35512 (X06705) PLA-X polypeptide [Homo sapiens]	0.019
3753	AB001615	Homo sapiens DNA for cGMP-binding cGMP-specific phosphodiesterase (PDE5), exon 1	6e-006	<NONE>	<NONE>	<NONE>
3754	X57103	Human h-lys gene for lysozyme (upstream region)	5e-015	113670	!!!! ALU CLASS E WARNING ENTRY !!!!	3.3
3755	L09708	Homo sapiens complement component 2 (C2) gene allele b, exons 10 through 18 and complete cds	6e-005	1143705	(X89760) Hox2a gene product [Zea mays]	9.7
3756	X73685	C.aethiops hsp70 mRNA	2e-088	1322309	(U55176) heat shock cognate 70.II [Xenopus laevis]	2e-025
3757	Z57594	H.sapiens CpG DNA, clone 186c5, reverse read cpg186c5.rt1b .	0.002	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3758	AF095927	Rattus norvegicus protein phosphatase 2C mRNA, complete cds	e-117	3777604	(AF095927) protein phosphatase 2C [Rattus norvegicus]	4e-040
3759	U30788	Rattus norvegicus Tclone4 mRNA	5e-024	135576	LARGE TEGUMENT PROTEIN (VIRION PROTEIN UL36) >gi|73851|pir||WMBEH6 UL36 protein - human herpesvirus 1 (strain 17) >gi|59536|gnl|PID|e312351 1]	1.6
3760	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	3e-009	1082626	myosin heavy chain VA - human (fragment)	5.8
3761	M37463	E.gracilis chloroplast ribosomal protein genes rpl23, rpl2, rps19, rpl22, and rps3, complete cds.	0.38	2734883	(U75311) pyruvate decarboxylase 2 [Pichia stipitis]	3.4
3762	AF086241	Homo sapiens full length insert cDNA clone ZD29F04	4e-064	3702137	(AL031393) dJ733D15.1 (Zinc-finger protein) [Homo sapiens]	1e-040
3763	AF086241	Homo sapiens full length insert cDNA clone ZD29F04	4e-064	3702137	(AL031393) dJ733D15.1 (Zinc-finger protein) [Homo sapiens]	1e-040
3764	AF008227	Drosophila melanogaster odd Oz product (odz) gene, exons 3, 4, 5, 6, 7, and complete cds	3.6	2661842	(Y15732) DNA polymerase beta [Xenopus laevis]	2e-020
3765	AF039688	Homo sapiens antigen NY-CO-3 (NY-CO-3) mRNA, partial cds	0	3170176	(AF039688) antigen NY-CO-3 [Homo sapiens]	2e-073

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3766	AF037332	Homo sapiens Eph-like receptor tyrosine kinase hEphB1b (EphB1) mRNA, complete cds	0.37	1255919	(X96511) MAFB protein [Coturnix japonica]	5.6
3767	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
3768	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	<NONE>	<NONE>	<NONE>
3769	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>
3770	X57103	Human h-lys gene for lysozyme (upstream region)	5e-015	113670	!!!! ALU CLASS E WARNING ENTRY !!!!	3.3
3771	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	2947096	(U81032) TniQ [Pseudomonas stutzeri]	0.86
3772	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	2947096	(U81032) TniQ [Pseudomonas stutzeri]	0.86
3773	M84326	Human ADP-ribosylation factor 1 mRNA, complete cds	0	283748	collagen alpha 2(I) chain homolog - sea urchin (Strongylocentrotus purpuratus) >gi|161436 purpuratus]	0.14
3774	X82575	G.gallus mRNA for Cnot	0.39	3327136	(AB014561) KIAA0661 protein [Homo sapiens]	3e-033

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3775	L43001	Bos taurus guanylyl cyclase-activating protein 2	3e-072	1730238	GUANYLATE CYCLASE ACTIVATING PROTEIN 2 (GCAP 2) (RETINAL GUANYLYL CYCLASE ACTIVATOR PROTEIN P24) >gi|2136762|pir||A 57604 guanylate cyclase-activating protein 2 - bovine >gi|1002750 cyclase-activating protein 2 [Bos taurus]	1e-030
3776	U47322	Cloning vector DNA, complete sequence.	7e-007	3335349	(AC004512) Similar to gb|U46691 putative chromatin structure regulator (SUPT6H) from Homo sapiens. ESTs gb|T42908, gb|AA586170 and gb|AA395125 come from this gene. [Arabidopsis thaliana]	9.2
3777	L09647	Rattus norvegicus hepatocyte nuclear factor 3a	2e-069	404764	(L10409) fork head related protein [Mus musculus]	3e-031
3778	U72756	Lycianthes heteroclita NADH dehydrogenase subunit protein, partial cds	0.37	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3779	M94314	Homo sapiens ribosomal protein L30 mRNA, complete cds	1e-073	3876073	(Z81505) similar to Zinc finger, C3HC4 type (RING finger); cDNA EST EMBL:D28025 comes from this gene; cDNA EST EMBL:D28024 comes from this gene; cDNA EST EMBL:D33210 comes from this gene; cDNA EST EMBL:D33441 comes from this...	1.4
3780	AF053315	Reporter vector pNFkB-Luc, complete sequence	9e-019	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.3
3781	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.5
3782	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-013	1695957	(U78693) NADH dehydrogenase [Holmskioldia sanguinea]	1.9
3783	AF074990	Homo sapiens full length insert cDNA YH85A11	0.005	1881709	(U89517) polyprotein [Dengue virus type 2]	9.6
3784	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
3785	AF020038	Homo sapiens NADP-dependent isocitrate dehydrogenase (IDH) mRNA, complete cds	4e-011	3647352	(Z97348) MAL3P1.11 [Plasmodium falciparum]	9.6

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3786	Z75199	S.cerevisiae chromosome XV reading frame ORF YOR291w	8e-028	3880560	(Z70271) Similarity to Yeast E1-E2 ATPase (SW:YED1_YEAST); cDNA EST EMBL:D37634 comes from this gene; cDNA EST EMBL:D34653 comes from this gene; cDNA EST EMBL:D34527 comes from this gene; cDNA EST EMBL:D32311 comes from this...	7e-048
3787	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
3788	M86400	Human phospholipase A2 mRNA, complete cds. > :: gb|I34404|I34404 Sequence 8 from patent US 5597719	5e-088	<NONE>	<NONE>	<NONE>
3789	X03100	Human HLA-SB(DP) alpha gene	0.47	3941737	(AF109719) BAT2 [Mus musculus]	2.4
3790	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-015	3043662	(AB011141) KIAA0569 protein [Homo sapiens]	9.6
3791	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.29
3792	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	345555	Ig light chain - rainbow trout (fragment)	1.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3793	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
3794	AF064104	Homo sapiens Cdc14B1 phosphatase mRNA, complete cds	3e-030	2662463	(AF023158) tyrosine phosphatase [Homo sapiens]	1e-008
3795	U29348	Salmonella enterica strain s2978 invasion protein SpaO (spaO), SpaP (spaP) and SpaQ (spaQ) genes, complete cds	0.0005	2291118	(AF016414) No definition line found [Caenorhabditis elegans]	9.6
3796	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-016	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
3797	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	1168719	C6.1A PROTEIN	0.004
3798	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	481236	hypothetical protein - Madagascar periwinkle roseus]	3.4
3799	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	423157	finger protein ZNF33A - human (fragment)	4.3
3800	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
3801	U61950	Caenorhabditis elegans cosmid C45E5	1.2	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3802	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	1703028	CLATHRIN COAT ASSEMBLY PROTEIN AP47 HOMOLOG 2 (CLATHRIN COAT ASSOCIATED PROTEIN AP47 HOMOLOG 2) (GOLGI ADAPTOR AP-1 47 KD PROTEIN HOMOLOG 2) (HA1 47 KD SUBUNIT HOMOLOG 2) (CLATHRIN ASSEMBLY PROTEIN ASSEMBLY PROTEIN COMPL... >gi|2134919|pir||A 57170 clathri	9.6
3803	M31651	Homo sapiens sex hormone-binding globulin (SHBG) gene, complete cds	7e-017	<NONE>	<NONE>	<NONE>
3804	D00596	Homo sapiens gene for thymidylate synthase, exons 1, 2, 3, 4, 5, 6, 7, complete cds	6e-038	<NONE>	<NONE>	<NONE>
3805	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.7
3806	D45906	Human mRNA for LIMK-2, complete cds	4e-096	<NONE>	<NONE>	<NONE>
3807	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-006	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3808	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.004	<NONE>	<NONE>	<NONE>
3809	AF045798	Xenopus laevis gremlin mRNA, complete cds	0.36	3551167	(AB012131) Ich1 [Coprinus cinereus]	4.1
3810	D78275	Human mRNA for proteasome subunit p42, complete cds	8e-019	1709804	26S PROTEASE REGULATORY SUBUNIT S10B (P44) (CONSERVED ATPASE DOMAIN PROTEIN 44) 26S proteasome regulatory subunit [Homo sapiens]	0.001
3811	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-009	<NONE>	<NONE>	<NONE>
3812	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3813	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-014	3193162	(AF067618) No definition line found [Caenorhabditis elegans]	1e-027
3814	AF085858	Homo sapiens full length insert cDNA clone YN49B07	1e-017	3329465	(AF064553) NSD1 protein [Mus musculus]	4e-007
3815	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-005	<NONE>	<NONE>	<NONE>
3816	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0003	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3817	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-006	<NONE>	<NONE>	<NONE>
3818	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2	<NONE>	<NONE>	<NONE>
3819	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-006	416673	ATP SYNTHASE A CHAIN (PROTEIN 6) 3.6.1.34) protein 6 - liverwort (Marchantia polymorpha) mitochondrion >gi|786191 (M68929) atp6 [Marchantia polymorpha]	1.3
3820	L14684	Rattus norvegicus nuclear-encoded mitochondrial elongation factor G mRNA, complete cds.	e-115	585084	ELONGATION FACTOR G, MITOCHONDRIAL PRECURSOR (MEF-G) >gi|543383|pir||S40780 translation elongation factor G, mitochondrial - rat >gi|310102	5e-038
3821	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.2
3822	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-012	1665789	(D87450) Similar to D.melanogaster parallel sister chromatids protein [Homo sapiens]	8.5
3823	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-009	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3824	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-015	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.2
3825	L48489	Homo sapiens N-acetylglucosaminyltransferase III	1e-038	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	1e-008
3826	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
3827	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.9
3828	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.4
3829	AB012162	Homo sapiens mRNA for APC 2 protein, complete cds	1e-017	3894265	(AB012162) APC 2 protein [Homo sapiens]	0.45
3830	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-010	1723680	HYPOTHETICAL 14.1 KD PROTEIN IN UPF3-SMD1 INTERGENIC REGION >gi|2132599|pir||S64368 probable membrane protein YGR073c - yeast (Saccharomyces cerevisiae) >gi|1323101|gnl|PID|e243468 (Z72858) ORF YGR073c [Saccharomyces cerevisiae]	1.3

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3831	S54914	bup=5'of bmi-1 proviral insertion locus [mice, Genomic/mRNA, 2022 nt]	e-140	265569	(S54914) bup=5'of bmi-1 proviral insertion locus [mice, Peptide, 195 aa] [Mus sp.]	2e-059
3832	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-009	<NONE>	<NONE>	<NONE>
3833	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-012	<NONE>	<NONE>	<NONE>
3834	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-015	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.9
3835	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-007	1805270	(U81983) endothelial PAS domain protein 1 [Mus musculus]	6.6
3836	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3837	X92814	H.sapiens mRNA for rat HREV107-like protein	1e-032	1709969	H-REV 107 PROTEIN	3e-013
3838	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2183251	(AF002227) putative polyprotein [border disease virus strain C413]	0.015
3839	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	1142660	(U23502) POM1 [Plasmodium chabaudi chabaudi]	7.3
3840	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.3
3841	U47322	Cloning vector DNA, complete sequence.	2e-058	224398	ORF [Simian virus 40]	4e-005

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3842	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.9
3843	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.3
3844	Y15059	Homo sapiens hng/RC3 gene, exons 2,3 & 4	0.053	<NONE>	<NONE>	<NONE>
3845	X99330	R.norvegicus mRNA for IP63 protein	2e-027	<NONE>	<NONE>	<NONE>
3846	AF100303	Caenorhabditis elegans cosmid Y7G10A	0.53	<NONE>	<NONE>	<NONE>
3847	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
3848	AF040094	Mus musculus inositol polyphosphate 5-phosphatase II (INPP5P) mRNA, complete cds	0.15	<NONE>	<NONE>	<NONE>
3849	Y15724	Homo sapiens SERCA3 gene, exons 1-7 (and joined CDS)	2e-013	<NONE>	<NONE>	<NONE>
3850	AB011144	Homo sapiens mRNA for KIAA0572 protein, partial cds	0	3043668	(AB011144) KIAA0572 protein [Homo sapiens]	1e-080
3851	AF020762	Homo sapiens clone 1400 unknown protein mRNA, partial cds	0	2738927	(AF020762) unknown protein [Homo sapiens]	2.8
3852	Z99706	Human DNA sequence from cosmid U226D1 on chromosome X. Contains STS, complete sequence [Homo sapiens]	0.0002	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3853	M73700	Human neutrophil lactoferrin mRNA, complete cds and 5' promoter region.	0.0002	<NONE>	<NONE>	<NONE>
3854	D31793	Human CD40 ligand (CD40L) gene, 5' flanking region and exon 1	0.046	<NONE>	<NONE>	<NONE>
3855	U16300	Human lysyl hydroxylase (PLOD) gene, intron 9, complete sequence.	0.0002	126363	LAMININ ALPHA-1 CHAIN PRECURSOR precursor - human	0.18
3856	U61241	Homo sapiens p47-phox pseudogene, clone P41, exon 1	0.14	<NONE>	<NONE>	<NONE>
3857	D37791	Mouse mRNA for beta-1,4-galactosyltransferase	e-105	3880102	(Z93390) similar to FYVE zinc finger; cDNA EST yk265b4.5 comes from this gene; cDNA EST yk359g9.5 comes from this gene; cDNA EST yk319c2.5 comes from this gene [Caenorhabditis elegans] zinc finger; cDNA EST yk265b4.5 comes from this gene; cDNA EST yk359g9	3e-021
3858	Z57667	H.sapiens CpG DNA, clone 18a8, reverse read cpg18a8.rt1b .	1.2	<NONE>	<NONE>	<NONE>
3859	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	2879809	(AJ223320) trp-like protein [Loligo forbesi]	1.5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3860	U22296	Rattus norvegicus casein kinase 1 gamma 1 isoform mRNA, complete cds	e-126	3024053	CASEIN KINASE I, GAMMA 1 ISOFORM kinase 1 gamma 1 isoform [Rattus norvegicus]	1e-061
3861	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	113669	!!!! ALU CLASS D WARNING ENTRY !!!!	2.6
3862	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3864	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	<NONE>	<NONE>	<NONE>
3865	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	3182957	CGMP-INHIBITED 3',5'-CYCLIC PHOSPHODIESTERASE B (CYCLIC GMP INHIBITED PHOSPHODIESTERASE B) (CGI-PDE B) (CGIPDE1) phophodiesterase - human >gi|1145302 (U38178) cyclic nucleotide phophodiesterase [Homo sapiens] 3B [Homo sapiens]	4.4
3866	AF099004	Caenorhabditis elegans cosmid C07D2	0.2	<NONE>	<NONE>	<NONE>
3867	Z23091	H.sapiens GPV gene encoding platelet glycoprotein V precursor	5e-013	728836	!!!! ALU SUBFAMILY SP WARNING ENTRY	0.82

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3868	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-007	2291255	(AF016430) weak similarity to Bacillus subtillis spore coat protein precursor (GB:L42066) and Dictyostelium discoideum calcium binding protein (NID:g426313) in proline-rich regions [Caenorhabditis elegans]	8.4
3869	U58739	Caenorhabditis elegans cosmid F28C10.	0.33	<NONE>	<NONE>	<NONE>
3870	L48473	Homo sapiens (subclone 7_e11 from P1 H16) DNA sequence.	3e-008	<NONE>	<NONE>	<NONE>
3871	U95097	Xenopus laevis mitotic phosphoprotein 43 mRNA, partial cds	0.015	<NONE>	<NONE>	<NONE>
3872	Z73360	Human DNA sequence from cosmid 92M18, BRCA2 gene region chromosome 13q12-13.	4e-020	<NONE>	<NONE>	<NONE>
3873	Z71572	O.aries DNA for immunoglobulin joining regions	1.2	1699130	(U80027) weak similarity to Arabadopsis thaliana phytochrome E (PIR:S41912) [Caenorhabditis elegans]	6.1
3874	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.7

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3875	AB018263	Homo sapiens mRNA for KIAA0720 protein, partial cds	1.2	107240	oncogene 1 (tre-2 locus) (clone 210) - human	0.049
3876	U87998	Mus musculus cyclin G1 gene, partial cds	0.14	<NONE>	<NONE>	<NONE>
3877	AE001408	Plasmodium falciparum chromosome 2, section 45 of 73 of the complete sequence	1.8	<NONE>	<NONE>	<NONE>
3878	AF061244	Agrocybe aegerita B type DNA polymerase (Mtpol) gene, complete cds; tRNA-Asn gene, complete sequence; and unknown genes, mitochondrial genes for mitochondrial products	0.16	3153241	(AF053004) class I cytokine receptor [Homo sapiens]	5.8
3879	M73047	Homo sapiens tripeptidyl peptidase II mRNA, complete cds.	3e-028	136107	TRIPEPTIDYL-PEPTIDASE II (TPP II) tripeptidyl-peptidase II (EC 3.4.14.10) - human sapiens]	0.35
3880	AB011393	Suncus murinus mitochondrial DNA, D-loop region, partial sequence, isolate TKU-M205	0.17	107422	proline-rich protein PRB3S (cys) - human	0.4
3881	X69951	H.sapiens gene for casein kinase II alpha subunit > subunit alpha [human, Genomic, 18862 nt]	1e-008	113668	!!!! ALU CLASS C WARNING ENTRY !!!!	0.54

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3882	U54558	Human translation initiation factor eIF3 p66 subunit mRNA, complete cds	3e-018	<NONE>	<NONE>	<NONE>
3883	AB012259	Homo sapiens DNA, anonymous heat-stable fragment RP12-8	5e-012	<NONE>	<NONE>	<NONE>
3884	U44130	Xenopus laevis p58 mRNA, partial cds	0.15	3873716	(Z74026) similar to 1-aminocyclopropane-1-carboxylate synthase; cDNA EST EMBL:D34239 comes from this gene; cDNA EST EMBL:D35575 comes from this gene; cDNA EST EMBL:D64242 comes from this gene; cDNA EST EMBL:D67126 comes from... 1-aminocyclopropane-1-carbo	5.3
3885	AB007917	Homo sapiens mRNA for KIAA0448 protein, complete cds	0.006	<NONE>	<NONE>	<NONE>
3886	AJ223824	Lycopersicon esculentum cv Red River unknown sequence PCR random amplified RAPD band 9	0.045	<NONE>	<NONE>	<NONE>
3887	U47322	Cloning vector DNA, complete sequence.	3e-008	2183251	(AF002227) putative polyprotein [border disease virus strain C413]	0.67

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3888	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-006	<NONE>	<NONE>	<NONE>
3889	U67564	Methanococcus jannaschii section 106 of 150 of the complete genome	1.3	2920535	(AF018081) type XVIII collagen [Homo sapiens]	0.73
3890	AE000720	Aquifex aeolicus section 52 of 109 of the complete genome	1.3	<NONE>	<NONE>	<NONE>
3891	AB011230	Zaglossus bruijni mitochondrial gene for NADH dehydrogenase subunit 1, partial cds	3.6	<NONE>	<NONE>	<NONE>
3892	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	1e-042	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.0001
3893	AF067646	Cloning vector pCMV-scriptEX, complete sequence	3e-029	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.001
3894	Z69919	Human DNA sequence from cosmid 91K3, Huntington's Disease Region, chromosome 4p16.3 contains CpG island.	3.8	<NONE>	<NONE>	<NONE>
3895	X75757	G.gallus cycB3 mRNA.	6e-036	729112	G2/MITOTIC-SPECIFIC CYCLIN B3	4e-013
3896	L27833	Bos taurus pregnancy-associated glycoprotein-1	0.48	854348	(X87336) DNA endonuclease [Peperomia polybotrya]	7.5

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3897	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.14	3169059	(AL023704) weak similarity to B.subtilis spore outgrowth factor B [Schizosaccharomyces pombe]	5e-052
3898	X64123	H.sapiens PVR gene for poliovirus receptor (exon 8)	7e-006	2444416	(AF020484) NADH dehydrogenase-like protein [Gleditsia fera]	0.55
3899	Z81043	Caenorhabditis elegans cosmid C29F3, complete sequence [Caenorhabditis elegans]	0.44	266459	P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM) (CD62P) mouse >gi|200553 (M87861) P-selectin [Mus musculus]	1.8
3900	AJ001235	Papio hamadryas ERV-9 like LTR insertion	3e-050	3126961	(AF061747) cell division protein FtsZ homolog	1.2
3901	AE001314	Chlamydia trachomatis section 41 of 87 of the complete genome	1.2	<NONE>	<NONE>	<NONE>
3902	X82895	H.sapiens mRNA for DLG2	2e-048	3659505	(AC005084) similar to mouse mCASK-A; similar to e1288039	1e-054
3903	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA; complete cds	2e-006	<NONE>	<NONE>	<NONE>
3904	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	436923	(U01849) ORF1 [Trypanosoma brucei]	0.08

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3905	D88982	Clostridium botulinum DNA for C2 toxin component-I and component-II, complete cds	0.38	1082769	RNA helicase A - human	5.6
3906	D50418	Mouse mRNA for AREC3, partial cds	1e-041	2137398	homeotic protein AREC3 (clone SM) - mouse	0.044
3907	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-005	<NONE>	<NONE>	<NONE>
3908	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	2314677	(AE000648) cation-transporting ATPase, P-type (copA)	0.36
3909	U72745	Dictyostelium discoideum cysteine proteinase	0.014	<NONE>	<NONE>	<NONE>
3910	AJ011972	Homo sapiens mRNA for histone deacetylase-like protein (JM21)	3e-081	<NONE>	<NONE>	<NONE>
3911	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-011	<NONE>	<NONE>	<NONE>
3912	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
3913	AC001032	Homo sapiens (subclone 2_c11 from P1 H48) DNA sequence	9e-009	130402	RETROVIRUS-RELATED POL POLYPROTEIN	3.2
3914	J04830	S.cerevisiae CBP3 protein gene, complete cds.	3.3	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3915	D78572	House mouse; Musculus domesticus mRNA for membrane glycoprotein, complete cds > :: dbj|E12950|E12950 cDNA GA3-43 encoding novel polypeptide which appear when differentiate from embryo-tumor cell P19 to nerve cell	4e-044	1545807	(D78572) membrane glycoprotein [Mus musculus]	1e-020
3916	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.1
3917	U29923	Human AMP deaminase (AMPD3) gene, intron 1a and promoter 1b.	0.04	3256504	(AP000001) 115aa long hypothetical protein [Pyrococcus horikoshii]	0.094
3918	Z68327	Human DNA sequence from cosmid U25D11, between markers DXS366 and DXS87 on chromosome X.	5e-015	<NONE>	<NONE>	<NONE>
3919	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-013	<NONE>	<NONE>	<NONE>
3920	M89955	Human 5-HT1D-type serotonin receptor gene, complete cds.	0	112819	5-HYDROXYTRYPTAMINE 1D RECEPTOR human >gi|177772 (M89955) 5-HT1D-type serotonin receptor receptor:ISOTYPE =1D-alpha [Homo	3e-053

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					sapiens]	
3921	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-008	3879698	(Z78065) predicted using Genefinder	9.1
3922	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	3184285	(AC004136) hypothetical protein [Arabidopsis thaliana]	9.5
3923	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.005	139805	XFIN PROTEIN >gi|65234 (X06021) Xfin protein (AA 1 - 1350) [Xenopus laevis]	1.9
3924	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>
3925	AF013711	Homo sapiens 22 kDa actin-binding protein	1e-020	103509	I factor 2 (transposon) - fruit fly protein [Drosophila teissieri]	5.5
3926	S83526	red photopigment gene {Alu repeat region, long intron 1} [human, peripheral blood leucocytes, Genomic, 1987 nt]	7e-006	<NONE>	<NONE>	<NONE>
3927	AB011542	Homo sapiens mRNA for MEGF9, partial cds	0	3449310	(AB011542) MEGF9 [Homo sapiens]	2e-095

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3928	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
3929	X67312	P.pijperi mitochondrion DNA for Vaccinia virus-like terminal loop structure	6e-006	<NONE>	<NONE>	<NONE>
3930	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	3080474	(AL022602) cell divisin protein FtsW	1.2
3931	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-006	3769486	(AF074946) DNA polymerase [hemorrhagic enteritis virus]	1.3
3932	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>
3933	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	1890266	(U88585) NADH-dehydrogenase subunit 1 [Quedius mesomelinus]	4.2
3934	Z12112	pWE15A cosmid vector DNA	1e-051	987050	(X65335) lacZ gene product [unidentified cloning vector]	4e-009
3935	AF023180	Listeria monocytogenes low temperature requirement A protein (ltrA) gene, complete cds	0.005	<NONE>	<NONE>	<NONE>
3936	D10856	D. melanogaster cyclin A gene	0.37	2315521	(AF016452) similar to the beta transducin family	1e-028

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3937	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	3687507	(AL031788) C2H2 type zinc finger protein [Schizosaccharomyces pombe]	7.3
3938	Z80361	H.sapiens HLA-DRB pseudogene, repeat region;	2e-078	<NONE>	<NONE>	<NONE>
3939	L22551	Plasmodium yoelii yoelii merozoite surface protein 1 gene, 5' end.	1.2	<NONE>	<NONE>	<NONE>
3940	X74178	B.taurus microsatellite DNA INRA153	0.005	2291118	(AF016414) No definition line found [Caenorhabditis elegans]	2.5
3941	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	1354361	(U52008) Mrp50 [Streptococcus pyogenes]	0.48
3942	U41635	Human OS-9 precurosor mRNA, complete cds	0.12	<NONE>	<NONE>	<NONE>
3943	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>
3944	M37470	Human beta-N-acetylhexosaminidase (HEXB) gene, deletion junction.	5e-025	728832	!!!! ALU SUBFAMILY SB WARNING ENTRY	4.3
3945	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	97885	salivary agglutinin receptor precursor - Streptococcus sanguis	0.84

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
3946	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	140550	HYPOTHETICAL 259 KD PROTEIN (ORF 2136) >gi|81341|pir||A05 037 hypothetical protein 2136 - liverwort (Marchantia polymorpha) chloroplast >gi|11665	2.5
3947	L13176	Papio anubis apolipoprotein C-I gene, partail mRNA.	0.0005	<NONE>	<NONE>	<NONE>
3948	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	580702	(X74410) fixP gene product [Azorhizobium caulinodans]	2.9
3949	X92987	B.primigenius mRNA for coat protein gamma-cop	2e-036	1706000	COATOMER GAMMA SUBUNIT (GAMMA-COAT PROTEIN) (GAMMA-COP) >gi|1066165 (X92987) coat protein gamma-cop [Bos primigenius]	2e-008
3950	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	223232	protein src [Avian sarcoma virus]	0.37
3951	AF037350	Rattus norvegicus NF-E2-related factor 2 mRNA, complete cds	1e-013	3004573	(AC004520) similar to NFE2-related transcription factors; similar to I48694 (PID:g2137676) [Homo sapiens]	8e-073
3952	AJ011972	Homo sapiens mRNA for histone deacetylase-like protein (JM21)	8e-092	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3953	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3954	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
3955	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	630444	CR5 protein - Trypanosoma brucei >gi|468424	4.3
3956	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	630444	CR5 protein - Trypanosoma brucei >gi|468424	4.3
3957	AF086172	Homo sapiens full length insert cDNA clone ZB89E10	9e-062	1172991	60S RIBOSOMAL PROTEIN L21 sapiens] >gi|984143 (X89401) ribosomal protein L21 [Homo sapiens] >gi|1096939|prf||2113200B ribosomal protein L21	9e-024
3958	D42084	Human mRNA for KIAA0094 gene, partial cds	2e-058	1703270	PUTATIVE METHIONINE AMINOPEPTIDASE 1 (METAP 1) (PEPTIDASE M 1) (KIAA0094) product is related to S.cerevisiae methionine aminopeptidase. [Homo sapiens]	1e-016

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3959	AF034755	Homo sapiens microphthalmia-associated transcription factor (MITF) gene, promoter region and partial cds	2e-005	<NONE>	<NONE>	<NONE>
3960	Z96177	H.sapiens telomeric DNA sequence, clone 10QTEL040, read 10QTELOO040.seq	3e-011	<NONE>	<NONE>	<NONE>
3961	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	141028	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5 >gi|76351|pir||QQUTC5 NADH dehydrogenase (ubiquinone)	1.1
3962	U93237	Human menin (MEN1) gene, complete cds	0.37	134853	TRANSCRIPTION INITIATION PROTEIN SPT5 yeast (Saccharomyces cerevisiae) >gi|172680 (M62882) SPT5 protein [Saccharomyces cerevisiae] >gi|854480 (Z49810) Spt5p [Saccharomyces cerevisiae]	0.49
3963	Z93782	Caenorhabditis elegans cosmid R12G8, complete sequence [Caenorhabditis elegans]	0.008	1171084	A/G-SPECIFIC ADENINE GLYCOSYLASE	6.5
3964	U11270	Human antithrombin III gene, exon 1 and partial cds.	2e-023	728837	!!!! ALU SUBFAMILY SQ WARNING ENTRY	9e-006

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3965	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	3650488	(AF042273) signal transducing adaptor molecule 2A [Homo sapiens]	3.6
3966	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
3967	AF086207	Homo sapiens full length insert cDNA clone ZC48C05	1e-009	1077301	probable membrane protein YOL101c - yeast similarity with bee NADH-ubiquinone oxidoreductase chain 2 [Saccharomyces cerevisiae] >gi|1419955|gnl|PID|e252291	0.41
3968	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.2
3969	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	2274853	(AJ000502) iron regulatory protein	0.15
3970	U82165	Cercopithecus aethiops transmembrane glycoprotein CD99-cos7 mRNA, partial cds	2e-015	2735010	(U82166) CD99 type II-COS7 [Cercopithecus aethiops]	0.011
3971	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3972	M87680	Human simple repeat polymorphism.	3e-040	3874946	(Z79598) cDNA EST EMBL:D34748 comes from this gene; cDNA EST yk218e6.5 comes from this gene; cDNA EST yk244e3.5 comes from this gene; cDNA EST yk248a4.5 comes from this gene; cDNA EST yk250a3.5 comes from this gene; cDNA EST...	1e-008
3973	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	119396	ENV POLYPROTEIN (COAT POLYPROTEIN) reticuloendotheliosis virus >gi|61786 (X01455) env-protein (capsid protein) [Reticuloendotheliosis virus] >gi|209712 (K02537) envelope polyprotein [Avian reticuloendotheliosis virus A]	4.6
3974	AB011143	Homo sapiens mRNA for KIAA0571 protein, complete cds	e-151	1708199	HSC70-INTERACTING PROTEIN	4e-023
3975	AC001050	Homo sapiens (subclone 3_e9 from P1 H55) DNA sequence	1e-019	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	3e-006
3976	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	1077543	probable membrane protein YDR198c - yeast	5.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3977	AJ005175	Drosophila virilis mRNA for GAGA factor class B-isoform	0.056	<NONE>	<NONE>	<NONE>
3978	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	478731	replication protein - Butyrivibrio fibrisolvens plasmid pRJF1 >gi|152515 (M94552) replication protein [Plasmid pRJF1]	1.5
3979	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-006	3319480	(AF077546) No definition line found [Caenorhabditis elegans]	6.5
3980	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3
3981	AF003350	Mus musculus Npc1 gene, and npc-nih intron containing the MaLR inserted sequence	4e-007	1170261	OUTER MEMBRANE USHER PROTEIN HIFC PRECURSOR	6.4
3982	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.001	<NONE>	<NONE>	<NONE>
3983	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-006	<NONE>	<NONE>	<NONE>
3984	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-007	<NONE>	<NONE>	<NONE>
3985	AB007939	Homo sapiens mRNA for KIAA0470 protein, complete cds	e-163	3413902	(AB007939) KIAA0470 protein [Homo sapiens]	2e-057

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3986	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.9
3987	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-006	<NONE>	<NONE>	<NONE>
3988	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1e-006	<NONE>	<NONE>	<NONE>
3989	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.008	2414527	(Z99263) hypothetical protein MLCB637.01c [Mycobacterium leprae]	1.3
3990	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.074	464237	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 4	2.2
3991	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	3876367	(Z69360) Weak similarity to Eimeria thrombospondin (PIR Acc. No. A45517); cDNA EST EMBL:M89266 comes from this gene; cDNA EST yk295b9.5 comes from this gene [Caenorhabditis elegans] Eimeria thrombospondin (PIR Acc. No. A45517); cDNA EST EMBL:M89266 comes	7.7

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3992	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	400624	SODIUM- AND CHLORIDE-DEPENDENT GABA TRANSPORTER 2 >gi|348413|pir||A45078 gamma-aminobutyric acid transporter protein 2 - rat >gi|202523 (M95762) GABA transporter [Rattus norvegicus]	0.62
3993	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-015	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
3994	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.9
3995	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	2286159	(AF007831) glycoprotein H [Human herpesvirus 7]	6.3
3996	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	<NONE>	<NONE>	<NONE>
3997	D16888	Human HepG2 3' region cDNA, clone hmd2c03	e-104	<NONE>	<NONE>	<NONE>
3998	U00995	Rattus norvegicus TA1 mRNA, complete cds.	1e-031	3639058	(AF077866) amino acid transporter E16 [Homo sapiens]	1e-050

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
3999	AF037219	Homo sapiens PIX1 mRNA sequence	5e-013	586863	HYPOTHETICAL 9.2 KD PROTEIN IN RECR-BOFA INTERGENIC REGION >gi|1075824|pir||A 41869 bofA 5'-region hypothetical protein orf74 - Bacillus subtilis subtilis] >gi|2632289|gnl|PI D|e1181955 (Z99104) yaaL	2.7
4000	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
4001	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-015	<NONE>	<NONE>	<NONE>
4002	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-013	549734	HYPOTHETICAL 105.7 KD PROTEIN IN TPK3-PIR1 INTERGENIC REGION >gi|481105|pir||S3 7786 hypothetical protein YKL165c - yeast (Saccharomyces cerevisiae) >gi|407483 (Z26877) unknown [Saccharomyces cerevisiae] >gi|486289 (Z28165) ORF YKL165c	3e-019

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4003	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	<NONE>	<NONE>	<NONE>
4004	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-008	228110	T cell receptor variable region:SUBUNIT =beta:ISOTYPE=1 9 [Rattus norvegicus]	3.6
4005	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	930045	(X15332) alpha-1 (III) collagen [Homo sapiens]	0.52
4006	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.2
4007	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-015	2960195	(Y13051) tax [Human T-cell lymphotropic virus type 2b]	0.68
4008	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-007	3523099	(AF016271) Ksp-cadherin [Mus musculus]	6.6
4009	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-015	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.7
4010	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-015	<NONE>	<NONE>	<NONE>
4011	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2121280	(AF000270) lipoprotein [Borrelia burgdorferi]	1.5

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4012	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>
4013	L20489	Zea mays NADH dehydrogenase subunit 4 (complex I) (nad4) gene, exon 4.	3.5	<NONE>	<NONE>	<NONE>
4014	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	<NONE>	<NONE>	<NONE>
4015	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-016	927407	(X89858) actin binding protein [Drosophila melanogaster]	0.02
4016	U05659	Human 17beta-hydroxysteroid dehydrogenase type 3 mRNA, complete cds	1e-092	1169300	ESTRADIOL 17 BETA-DEHYDROGENASE 3 DEHYDROGENASE) >gi|1085271|pir||S 43928 17-beta-hydroxysteroid dehydrogenase - human >gi|531162 hydroxysteroid dehydrogenase:ISOTYPE=3 [Homo sapiens]	4e-029
4017	U02428	Cloning vector pDR2, complete sequence	2e-066	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-009

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4018	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-018	3979938	(AL034393) predicted using Genefinder; cDNA EST yk343c12.5 comes from this gene; cDNA EST yk402e12.5 comes from this gene; cDNA EST yk457e8.5 comes from this gene; cDNA EST yk470f2.5 comes from this gene; cDNA EST yk281e3.5 ...	7e-009
4019	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
4020	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	804806	(M13100) unknown protein [Rattus norvegicus]	5.7
4021	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	<NONE>	<NONE>	<NONE>
4022	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>
4023	U49974	Human mariner2 transposable element, complete consensus sequence	e-124	1698455	(U49974) mariner transposase [Homo sapiens]	2e-028
4024	L31840	Rattus norvegicus nuclear pore complex protein NUP107 mRNA, complete cds.	e-175	1709212	NUCLEAR PORE COMPLEX PROTEIN NUP107	3e-093

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4025	AB001632	Homo sapiens DNA for cGMP-binding cGMP-specific phosphodiesterase (PDE5), exon 18	7e-007	<NONE>	<NONE>	<NONE>
4026	X96401	H.sapiens mRNA for ROX protein	8e-070	<NONE>	<NONE>	<NONE>
4027	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.015	<NONE>	<NONE>	<NONE>
4028	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2
4029	AJ006064	Rattus norvegicus mRNA for coronin-like protein	e-124	3757680	(AJ006064) coronin-like protein [Rattus norvegicus]	2e-091
4030	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	1184072	(U40766) COL-1 [Meloidogyne incognita]	0.019
4031	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.002	231721	T-CELL SURFACE GLYCOPROTEIN CD8 ALPHA CHAIN PRECURSOR (T-LYMPHOCYTE DIFFERENTIATION ANTIGEN T8/LEU-2) >gi|38145 (X60223) CD8 alpha chain	5.8
4032	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4033	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
4034	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	1020391	(L48340) alcohol dehydrogenase [Methylobacterium extorquens]	1.4
4035	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	2291282	(AF016433) similar to C. elegans olfactory receptor ODR-10 (NID:g1235900) [Caenorhabditis elegans]	4.4
4036	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	478993	DNA-binding protein TAF-II 250K - fruit fly TATA-binding protein associated factor II 250, TBP associated factor II 250, TAFII250 {C-terminal}	5e-006
4037	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.4
4038	X03100	Human HLA-SB(DP) alpha gene	2e-025	<NONE>	<NONE>	<NONE>
4039	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4040	J03798	Human autoantigen small nuclear ribonucleoprotein Sm-D mRNA, complete cds.	2e-048	3874988	(Z74029) Similarity to C.elegans alcohol dehydrogenase (WP:C17G10.8); cDNA EST EMBL:D66106 comes from this gene; cDNA EST EMBL:D69117 comes from this gene; cDNA EST EMBL:D69761 comes from this gene; cDNA EST EMBL:C12156 come...	5.6
4041	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	2292986	(AJ000496) cyclic nucleotide-gated channel beta subunit [Rattus norvegicus]	0.5
4042	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.5
4043	AF020187	Amblyomma americanum ecdsyteroid receptor	1.2	<NONE>	<NONE>	<NONE>
4044	Z68758	Human DNA sequence from cosmid cN85E10 on chromosome 22q11.2-qter	2e-035	<NONE>	<NONE>	<NONE>
4045	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	2529632	(L78917) virion protein [Rubella virus]	4.6
4046	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4047	AB007957	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0488	2e-016	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.063
4048	M64716	Human ribosomal protein S25 mRNA, complete cds.	3e-082	2660720	(AF029678) PHF1 [Homo sapiens]	7e-013
4049	AB002437	Homo sapiens mRNA from chromosome 5q21-22, clone:LI33	6e-026	<NONE>	<NONE>	<NONE>
4050	Z74893	S.cerevisiae chromosome XV reading frame ORF YOL151w	0.13	<NONE>	<NONE>	<NONE>
4051	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
4052	U43416	Human replication control protein 1 (PARC1) mRNA, complete cds.	2e-056	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.007
4053	AF042346	Homo sapiens putative phenylalanyl-tRNA synthetase beta-subunit mRNA, complete cds	0	4104933	(AF042346) putative phenylalanyl-tRNA synthetase beta-subunit; PheHB [Homo sapiens]	e-123
4054	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4055	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4056	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
4057	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	2981221	(AF053091) eyelid [Drosophila melanogaster]	2.6

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4058	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4059	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4060	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.6
4061	U11081	Human type 1 vasoactive intestinal peptide receptor (V1RG) gene, exon 3.	0.43	<NONE>	<NONE>	<NONE>
4062	X82272	Human endogenous retrovirus env mRNA	8e-081	1196429	(M14123) pol/env ORF (bases 3878-8257) first start codon at 4172; Xxx; putative [Homo sapiens]	6e-058
4063	S61789	NF1=neurofibromatosis type 1 {deletion breakpoint, tetrameric STR} [human, neurofibrosarcoma tissue, Genomic Mutant, 698 nt]	0.0005	2494294	NEUROGENIC LOCUS NOTCH 3 PROTEIN	4.3
4064	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	3264773	(AF072439) zinc-finger protein-37; ZFP-37 [Rattus norvegicus]	3.3
4065	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.5
4066	U47322	Cloning vector DNA, complete sequence.	9e-054	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	0.6

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4067	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
4068	U31557	Ovine adenovirus IVa2 protein gene, DNA polymerase gene, terminal protein gene and 52,55 kDa protein gene, partial cds	0.0002	3002875	(AF042104) envelope glycoprotein [Human immunodeficiency virus type 1]	2.6
4069	AL023973	Human DNA sequence from clone 1033E15 on chromosome 22q13.1-13.2. Contains part of a novel gene, ESTs and a GSS, complete sequence [Homo sapiens]	7e-017	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.061
4070	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	2e-005	<NONE>	<NONE>	<NONE>
4071	X07679	Xenopus laevis XK70A gene for type I keratin	0.39	2281044	(Z95636) laminin alpha 5 chain [Homo sapiens]	0.9
4072	X96886	H.sapiens spcDNA, clone 2-65	5e-014	<NONE>	<NONE>	<NONE>
4073	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	9e-008	<NONE>	<NONE>	<NONE>
4074	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-005	1079278	activin receptor II STK3 precursor - African clawed frog >gi|260044|bbs|118656 (S49438) activin receptor, XAR1 [Xenopus, oocytes, Peptide,	1.3

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					510 aa]	
4075	AF097909	Peptostreptococcus micros fibril-like structure subunit FibA (fibA) gene, complete cds; excreted protein FibB (fibB) gene, partial cds; and unknown gene	0.046	<NONE>	<NONE>	<NONE>
4076	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-010	<NONE>	<NONE>	<NONE>
4077	AL009008	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-58, complete sequence	0.45	<NONE>	<NONE>	<NONE>
4078	L34686	Serpulina hyodysenteriae flagellar protein	0.015	<NONE>	<NONE>	<NONE>
4079	AJ130718	Homo sapiens mRNA for glycoprotein-associated amino acid transporter y+LAT1	1e-022	3582136	(AB015432) LAT1 (L-type amino acid transporter 1) [Rattus norvegicus]	2e-008
4080	X51969	Cyprinus carpio growth hormone gene	1.2	<NONE>	<NONE>	<NONE>
4081	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.2

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4082	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
4083	L38961	Human putative transmembrane protein precursor (B5) mRNA, complete cds	1e-071	1174470	OLIGOSACCHARYL TRANSFERASE STT3 SUBUNIT HOMOLOG (B5) (INTEGRAL MEMBRANE PROTEIN 1) musculus] >gi|1588285|prf||2208301A integral membrane protein [Mus musculus]	1e-008
4084	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-013	267449	HYPOTHETICAL 12.5 KD PROTEIN ZK637.2 IN CHROMOSOME III >gi|102507|pir||S15787 hypothetical protein 1 (cosmid ZK637) - Caenorhabditis elegans Genefinder; cDNA EST yk217b5.3 comes from this gene; cDNA EST yk217b5.5 comes from this gene; cDNA EST yk340g12.3	7e-014
4085	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-008	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
4086	X77733	T.aestivum VDAC 1 mRNA.	0.005	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4087	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	3123172	ZINC FINGER PROTEIN 151 (MIZ-1 PROTEIN) >gi|2230871|gnl|PID|e286602 (Y09723) Miz-1 protein [Homo sapiens]	2e-010
4088	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-010	180498	(M17517) complement H factor [Homo sapiens]	5.8
4089	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4090	U24697	Chironomus samoensis nanos homolog (Cs nos) gene, complete cds.	0.13	3880999	(AL021492) Y45F10D.11 [Caenorhabditis elegans]	7e-022
4091	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.7
4092	U81504	Homo sapiens beta-3A-adaptin subunit of the AP-3 complex mRNA, complete cds	6e-088	2199512	(U81504) beta-3A-adaptin subunit of the AP-3 complex [Homo sapiens]	0.0001
4093	AF053304	Homo sapiens mitotic checkpoint component Bub3	e-108	3378104	(AF047473) testis mitotic checkpoint BUB3 [Homo sapiens]	3e-024
4094	S70431	type-1 angiotensin II receptor {exons 1 and 2, promoter} [human, peripheral lymphocytes, Genomic, 2853 nt, segment 1 of 2]	4e-013	126295	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	3e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4095	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	<NONE>	<NONE>	<NONE>
4096	D10355	Human mRNA for alanine aminotransferase	3e-082	111345	alanine transaminase (EC 2.6.1.2) - rat	4e-042
4097	AF043252	Homo sapiens mitochondrial outer membrane protein (Tom40) gene, nuclear gene encoding mitochondrial protein, exons 7, 8 and 9	e-167	3941342	(AF043250) mitochondrial outer membrane protein [Homo sapiens] >gi|3941347 (AF043253) mitochondrial outer membrane protein [Homo sapiens] >gi|4105703 (AF050154) D19S1177E [Homo sapiens]	7e-013
4098	U41668	Human deoxyguanosine kinase mRNA, complete cds	e-125	2833282	DEOXYGUANOSINE KINASE PRECURSOR sapiens]	2e-009
4099	AF017416	Bacillus thuringiensis d-endotoxin gene, complete cds	0.14	<NONE>	<NONE>	<NONE>
4100	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-008	<NONE>	<NONE>	<NONE>
4101	AF017416	Bacillus thuringiensis d-endotoxin gene, complete cds	0.14	<NONE>	<NONE>	<NONE>
4102	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-008	<NONE>	<NONE>	<NONE>
4103	AJ003081	Homo sapiens repetitive DNA	5e-024	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4104	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4105	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	1572756	(U70848) C43G2.1 gene product [Caenorhabditis elegans]	4e-038
4106	U33915	Craterostigma plantagineum myb-related transcription factor (cpm10) gene, complete cds	0.14	<NONE>	<NONE>	<NONE>
4107	U46493	Cloning vector pFlp recombinase gene, complete cds	5e-033	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.004
4108	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-009	3417298	(AC002044) Alpha-fetoprotein enhancer binding protein (3' partial) [Homo sapiens]	0.33
4109	M16039	Dictyostelium discoideum pst-cath gene encoding pst-cathepsin, complete cds.	0.0002	<NONE>	<NONE>	<NONE>
4110	D21851	Human mRNA for KIAA0028 gene, partial cds	6e-005	<NONE>	<NONE>	<NONE>
4111	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	1723920	HYPOTHETICAL 37.4 KD PROTEIN IN SEC27-SSM1B INTERGENIC REGION >gi|2131603|pir||S64149 hypothetical protein YGL136c - yeast (Saccharomyces cerevisiae) >gi|1246842|gnl|PI	8e-006

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					D|e210737 (X92670) G2830	
4112	X75861	H.sapiens TEGT gene	e-180	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.6
4113	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	1399962	(U62317) choline kinase isolog 384D8_3 [Homo sapiens]	0.67
4114	Y07660	M.tuberculosis accBC gene	2e-059	465847	HYPOTHETICAL 66.5 KD PROTEIN F02A9.5 IN CHROMOSOME III >gi|280542|pir||S28313 hypothetical protein F02A9.5 - Caenorhabditis elegans Genefinder; similar to Propionyl-CoA carboxylase beta chain; cDNA EST EMBL:M89018 comes from this gene; cDNA EST EMBL:D2806	4e-056
4115	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.014	765086	(D30786) feline CD9 [Felis catus]	1.9

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4116	D29011	Human mRNA for proteasome subunit X, complete cds	e-125	2136006	proteasome subunit MB1 - human (fragment) MB1=LMP7 homolog [human, JY T-cells, Peptide Partial, 215 aa] [Homo sapiens]	4e-008
4117	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.2
4118	Z11692	H.sapiens mRNA for elongation factor 2	e-178	119172	ELONGATION FACTOR 2 (EF-2) eEF-2 - human >gi|31106 (X51466) elongation factor 2 factor 2 [Homo sapiens]	6e-054
4119	AF070530	Homo sapiens clone 24751 unknown mRNA	0	3387886	(AF070530) unknown [Homo sapiens]	4e-013
4120	D12646	Mouse kif4 mRNA for microtubule-based motor protein KIF4, complete cds	6e-057	1170659	KINESIN-LIKE PROTEIN KIF4 musculus]	2e-022
4121	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
4122	X75861	H.sapiens TEGT gene	e-180	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.6
4123	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	630864	LRR47 protein - fruit fly (Drosophila melanogaster) >gi|415947 (X75760) LRR47 [Drosophila melanogaster]	0.0002

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4124	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-014	3876775	(Z81077) predicted using Genefinder; Similarity to Yeast protein 8248 (TR:G587531)	1e-015
4125	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-008	480516	transposase (clone 22.5) - African malaria mosquito transposon mariner (fragment) >gi|159600	2.8
4126	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
4127	X65279	pWE15 cosmid vector DNA	2e-066	987050	(X65335) lacZ gene product [unidentified cloning vector]	4e-015
4128	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.8
4129	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
4130	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
4131	X74871	H.sapiens gene for RNA pol II largest subunit, exons 20-22	1.1	1182038	(Z69368) unknown [Schizosaccharomyces pombe]	0.86
4132	M64983	Human fibrinogen beta chain gene, complete mRNA. > gb|I47706|I47706 Sequence 3 from patent US 5639940	0.23	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4133	D12646	Mouse kif4 mRNA for microtubule-based motor protein KIF4, complete cds	6e-057	1170659	KINESIN-LIKE PROTEIN KIF4 musculus]	2e-022
4134	D86957	Human mRNA for KIAA0202 gene, partial cds	1.1	<NONE>	<NONE>	<NONE>
4135	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
4136	M20902	Human apolipoprotein C-I (VLDL) gene, complete cds.	4e-008	<NONE>	<NONE>	<NONE>
4137	L36849	Cloning vector pZEO (isolate SV1) phleomycin/zeocin-binding protein gene, complete cds.	9e-040	987050	(X65335) lacZ gene product [unidentified cloning vector]	9e-007
4138	X80910	H.sapiens PPP1CB mRNA	0	<NONE>	<NONE>	<NONE>
4139	M77812	Rabbit myosin heavy chain mRNA, complete cds.	0.0002	2088793	(AF003150) similar to cuticular collagen [Caenorhabditis elegans]	0.23
4140	U41165	Human recombination 'hot spot' region associated with the CMT1A duplication and the HNPP deletion containing a mariner transposon-like element	0.13	<NONE>	<NONE>	<NONE>
4141	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0006	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4142	AC001502	Homo sapiens (subclone 2_c7 from P1 H43) DNA sequence	0.014	3164130	(D78600) cytochrome P450 monooxygenase	7.5
4143	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4144	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4145	L31760	Human STS UT8178.	0.17	<NONE>	<NONE>	<NONE>
4146	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	<NONE>	<NONE>	<NONE>
4147	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0006	2662587	(AF036696) contains similarity to Brassica oleracea non-green plastid phosphate/triose-phosphate translocator precursor (GB:U13632) [Caenorhabditis elegans]	2e-016
4148	X56807	Human DSC2 mRNA for desmocollins type 2a and 2b	6e-037	319943	desmocollin 3b precursor - human	7e-014
4149	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
4150	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	2854155	(AF045640) contains similarity to ion channel proteins	3.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4151	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2507153	VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS16 >gi|2133204|pir||S62031 vacuolar protein sorting-associated protein VPS16 - yeast (Saccharomyces cerevisiae) >gi|1171414 (U44030) Vsp16p: Vacuolar sorting protein [Saccharomyces cerevisiae]	0.011
4152	D12646	Mouse kif4 mRNA for microtubule-based motor protein KIF4, complete cds	2e-035	3877579	(Z82271) Similarity to Mouse kinensin-like protein KIF4 (SW:P33174); cDNA EST EMBL:D27320 comes from this gene; cDNA EST EMBL:D27322 comes from this gene; cDNA EST EMBL:D27321 comes from this gene; cDNA EST EMBL:D35764 comes... Mouse kinensin-like protein	2e-054

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4153	D12646	Mouse kif4 mRNA for microtubule-based motor protein KIF4, complete cds	2e-035	3877579	(Z82271) Similarity to Mouse kinensin-like protein KIF4 (SW:P33174); cDNA EST EMBL:D27320 comes from this gene; cDNA EST EMBL:D27322 comes from this gene; cDNA EST EMBL:D27321 comes from this gene; cDNA EST EMBL:D35764 comes... Mouse kinensin-like protein	2e-054
4154	D12646	Mouse kif4 mRNA for microtubule-based motor protein KIF4, complete cds	2e-035	3877579	(Z82271) Similarity to Mouse kinensin-like protein KIF4 (SW:P33174); cDNA EST EMBL:D27320 comes from this gene; cDNA EST EMBL:D27322 comes from this gene; cDNA EST EMBL:D27321 comes from this gene; cDNA EST EMBL:D35764 comes... kinensin-like protein KIF4	9e-058
4155	M30539	Human SK2 c-Ha-ras-1 oncogene-encoded protein gene, exon 1.	0.13	137334	66 KD PROTEIN >gi|77357|pir||JQ0107 hypothetical 66K protein - Ononis yellow mosaic virus	10

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4156	L05096	Homo sapiens ribosomal protein L39 mRNA, complete cds	2e-086	1173044	60S RIBOSOMAL PROTEIN L39 norvegicus] >gi|1373419 (U57846) ribosomal protein L39 ribosomal protein L39 [Homo sapiens]	3e-007
4157	D13749	Plasmid pKA1 DNA	2e-025	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.18
4158	AF007157	Homo sapiens clone 23856 unknown mRNA, partial cds	2e-057	2131036	(Z95890) PE_PGRS [Mycobacterium tuberculosis]	6.3
4159	AF031400	Poecilia orri NADH dehydrogenase subunit 2 gene, mitochondrial gene encoding mitochondrial protein, complete cds	1.2	3327168	(AB014577) KIAA0677 protein [Homo sapiens]	0.0008
4160	U58468	Human vasoactive intestinal peptide gene, 5' flanking sequence from -5172 to -1924	3e-009	<NONE>	<NONE>	<NONE>
4161	D11078	Homo sapiens RGH2 gene, retrovirus-like element	4e-032	2119507	alpha-1C-adrenergic receptor isoform 2 - human >gi|927209|gnl|PID|d1007476 (D32202) alpha 1C adrenergic receptor isoform 2 [Homo sapiens]	1.2
4162	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4163	M31061	Human ornithine decarboxylase gene, complete cds.	2e-023	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.002

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4164	M19980	M.fervidus gap gene encoding glyceraldehyde-3-phosphate dehydrogenase, complete cds.	0.4	1825606	(U88169) similar to molybdoterin biosynthesis MOEB proteins [Caenorhabditis elegans]	3e-057
4165	D17036	Human HepG2 partial cDNA, clone hmd3e08m5	5e-025	<NONE>	<NONE>	<NONE>
4166	L14714	C. elegans cosmid ZC97.	0.39	3874412	(Z70034) similarity to 35.1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this gene; cDNA EST EMBL:T01315 comes from this gene; cDNA EST yk452e10.3 comes from this gene; cDNA... 35.1KD hypothetical yeast p	1e-033
4167	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-008	<NONE>	<NONE>	<NONE>
4168	Z49867	Caenorhabditis elegans cosmid C33D3, complete sequence [Caenorhabditis elegans]	0.044	3876784	(Z81530) predicted using Genefinder	5.9
4169	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-010	3549676	(AL031394) putative protein	3.1
4170	D87001	Human (lambda) DNA for immunoglobulin light chain	0.36	3133246	(AB013170) NADH dehydrogenase subunit 5	2.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4171	M37191	Human ras inhibitor mRNA, partial cds.	e-122	107561	Ras inhibitor (clone JC310) - human sapiens]	3e-035
4172	AB018374	Mus musculus GARP34 mRNA, complete cds	2e-046	3724364	(AB018374) GARP34 [Mus musculus]	2e-008
4173	X62527	R.norvegicus gene for CNS-myelin proteolipid protein (exon 6)	1.2	1155068	(X94976) cell wall-plasma membrane linker protein	1.6
4174	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	2781355	(AC003113) F24O1.11 [Arabidopsis thaliana]	0.52
4175	AF002715	Homo sapiens MAP kinase kinase kinase (MTK1) mRNA, complete cds	e-168	2352277	(AF002715) MAP kinase kinase kinase [Homo sapiens]	1e-042
4176	U07807	Human metallothionein IV (MTIV) gene, complete cds.	0.047	<NONE>	<NONE>	<NONE>
4177	D11129	Pneumonia virus of mice gene 7	0.14	<NONE>	<NONE>	<NONE>
4178	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4179	AF070557	Homo sapiens clone 24422 mRNA sequence	0	<NONE>	<NONE>	<NONE>
4180	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.005	<NONE>	<NONE>	<NONE>
4181	AF045765	Homo sapiens G protein-coupled receptor	9e-018	728833	!!!! ALU SUBFAMILY SB1 WARNING ENTRY	0.051
4182	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4183	X62162	B.burgdorferi gene for pC protein	0.41	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4184	Z81315	Human DNA sequence from fosmid F62D4 on chromosome 22q12-qter > :: emb|Z81316|HSF 62D4A Human DNA sequence from fosmid F62D4 on chromosome 22, complete sequence	1.2	<NONE>	<NONE>	<NONE>
4185	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
4186	L08108	Human low-affinity Fc-receptor IIB gene, exons 4-7.	0.0006	462387	IMMEDIATE-EARLY PROTEIN IE180 herpesvirus 1 (strain Kaplan) >gi|334071 (M34651) immediate-early protein [Pseudorabies virus]	0.25
4187	AJ228330	Pinus pinaster reverse transcriptase gene of Line-retroelement (clone pPpLi1)	1.3	3108187	(AC004663) Notch 3 [Homo sapiens]	1.3
4188	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4189	AF048991	Homo sapiens MutS homolog 5 (MSH5) gene, exons 13 through 25 and complete cds	0.002	3986756	(AF109905) NG23 [Mus musculus]	0.066
4190	Z59608	H.sapiens CpG DNA, clone 165g8, reverse read cpg165g8.rt1a .	2e-014	1055183	(U40061) Similar to sodium-dependent phosphate transporter. [Caenorhabditis elegans]	2.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4191	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
4192	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
4193	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	2128837	hypothetical protein MJ1401 - Methanococcus jannaschii >gi|1592049 (U67580) putative ATP dependent RNA helicase [Methanococcus jannaschii]	7.6
4194	X99691	B.taurus DNA for agouti gene	9e-009	<NONE>	<NONE>	<NONE>
4195	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-008	306929	(M28696) IgG Fc receptor beta-Fc-gamma-RII [Homo sapiens]	0.64
4196	U37521	Sus scrofa E-selectin gene, complete cds	0.042	539800	calcium-activated potassium channel mSlo - mouse >gi|347144 (L16912) mSlo [Mus musculus]	3.3
4197	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0002	<NONE>	<NONE>	<NONE>
4198	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0002	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4199	V01087	Hemagglutinin gene of influenza virus strain A/duck/Ukraine/1/63 > :: gb|J02109|FLAHAMU Influenza A/duck/ukraine/1/63 (h3n8), hemagglutinin (seg 4), cdna.	0.18	4038537	(AL021106) 1-evidence=predicted by match; 1-match_accession=AA392988; 1-match_description=LD12167.5prime LD Drosophila melanogaster embryo BlueScript Drosophila melanogaster cDNA clone LD12167 5prime.; 1-match_species=Drosop...	8.5
4200	X83107	H.sapiens Bmx mRNA for cytoplasmic tyrosine kinase	0.38	1147597	(U31221) viscerotropic leishmaniasis antigen [Leishmania tropica]	3.3
4201	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.9
4202	X71642	M.musculus GEG-154 mRNA	3.5	2760302	(D89074) hypothetical protein [Vibrio cholerae O139 fs1 phage]	1.5
4203	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.7
4204	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	1574918	(U19728) organic anion transporter [Raja erinacea]	5.8
4205	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4206	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	<NONE>	<NONE>	<NONE>
4207	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4208	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	<NONE>	<NONE>	<NONE>
4209	U50523	Human BRCA2 region, mRNA sequence CG037	0	3121764	ARP2/3 COMPLEX 34 KD SUBUNIT	9e-026
4210	X80909	H.sapiens alpha NAC mRNA	8e-050	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
4211	AF039955	Homo sapiens liver CC chemokine-1 precursor	7e-006	<NONE>	<NONE>	<NONE>
4212	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.6
4213	L35670	Homo sapiens (subclone H8 10_g5 from P1 35 H5 C8) DNA sequence.	7e-017	<NONE>	<NONE>	<NONE>
4214	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
4215	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4216	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4217	L33354	Lobostemon fruticosus Buek chloroplast trnL(UAA)-trnF(GAA) intergenic spacer DNA.	0.35	1483615	(Z77856) beta-glucosidase [Thermotoga neapolitana]	9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4218	Z12112	pWE15A cosmid vector DNA	5e-033	987050	(X65335) lacZ gene product [unidentified cloning vector]	4e-008
4219	X65279	pWE15 cosmid vector DNA	2e-079	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4220	AF052165	Homo sapiens clone 24522 mRNA sequence	e-170	2065177	(Y12790) Supt5h protein [Homo sapiens] sapiens]	1e-059
4221	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4222	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.9
4223	AF055024	Homo sapiens clone 24763 mRNA sequence	0	<NONE>	<NONE>	<NONE>
4224	S39048	knob associated histidine-rich protein KAHRP	0.39	<NONE>	<NONE>	<NONE>
4225	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	<NONE>	<NONE>	<NONE>
4226	U34377	Human tyrosine kinase TXK (txk) gene, exon 13.	2e-028	1709347	SERINE/THREONINE-PROTEIN KINASE NRK2 (SERINE/THREONINE KINASE 2) >gi|348245 (L20321) protein serine/threonine kinase [Homo sapiens]	8e-008

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4227	U25748	Pan troglodytes epididymal secretory protein precursor (EPI-1) mRNA, complete cds.	0	3182993	EPIDIDYMAL SECRETORY PROTEIN E1 PRECURSOR (EPI-1) (HE1) (EPIDIDYMAL SECRETORY PROTEIN 14.6) (ESP14.6) >gi|106343|pir||S25641 hypothetical protein - human >gi|2134519|pir||I53929 epididymal secretory protein 14.6 - crab-eating macaque human >gi|37477 (X676	7e-040
4228	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4229	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.017	<NONE>	<NONE>	<NONE>
4230	X74929	H.sapiens KRT8 mRNA for keratin 8	6e-036	<NONE>	<NONE>	<NONE>
4231	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4232	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6
4233	U41010	Caenorhabditis elegans cosmid T05A12	4.2	<NONE>	<NONE>	<NONE>
4234	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-007	1363925	hypothetical protein 2 - North American opossum (fragment) >gi|897721 (Z48955) ORF-2, putative RT [Didelphis	4.7

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					virginiana]	
4235	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	439493	(D26086) zinc-finger protein [Petunia x hybrida]	8.5
4236	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	2501599	HYPOTHETICAL 29.1 KD PROTEIN W06E11.4 IN CHROMOSOME III >gi|669022 (U20862) W06E11.4 gene product [Caenorhabditis elegans]	0.002
4237	X94118	P.falciparum PK4 gene	1.2	<NONE>	<NONE>	<NONE>
4238	Z18944	S.cerevisiae BDF1 gene	7.30E-01	2119161	unknown - chicken (fragment) >gi|537433	0.61
4239	AF031939	Mus musculus RalBP1-associated EH domain protein Reps1 (reps1) mRNA, complete cds	e-154	2677843	(AF031939) RalBP1-associated EH domain protein Reps1	5e-016
4240	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.9
4241	L35566	Gallus gallus homeobox protein (LH-2) mRNA, complete cds.	3e-044	1708809	HOMEOBOX PROTEIN LH-2 >gi|508712	4e-021
4242	Z83086	H.sapiens Fanconi anaemia group A gene, exon 29	3.00E-07	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4243	U63810	Homo sapiens WD40 protein Ciao 1 mRNA, complete cds	0.00E+00	3219331	(AC004020) Unknown gene product [Homo sapiens]	1e-096
4244	U15110	Mycoplasma capricolum ptsI-crr operon phosphocarrier protein enzyme I (ptsI) and phosphocarrier protein enzyme IIA (crr) genes, complete cds, and lipopolysaccharide biosynthesis (kdtB) gene, complete cds.	1.1	<NONE>	<NONE>	<NONE>
4245	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4246	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-011	730888	OCTAPEPTIDE-REPEAT PROTEIN T2	1.4
4247	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.074	<NONE>	<NONE>	<NONE>
4248	AJ224152	Plasmodium berghei gene encoding cdc2-related kinase 2	0.54	<NONE>	<NONE>	<NONE>
4249	M24971	D.discoideum CT-rich satellite rDNA, clone pCT11.	2e-008	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	2e-009
4250	Z72969	S.cerevisiae chromosome VII reading frame ORF YGR184c	1.2	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4251	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4252	AJ224326	Homo sapiens mRNA for putative ribulose-5-phosphate-epimerase, partial cds	0	<NONE>	<NONE>	<NONE>
4253	U45245	Homo sapiens paired-box protein PAX2 (PAX2) gene, promoter and exon 1	2.1	<NONE>	<NONE>	<NONE>
4254	AE001157	Borrelia burgdorferi (section 43 of 70) of the complete genome	0.63	<NONE>	<NONE>	<NONE>
4255	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.8
4256	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0005	2773162	(AF039595) sulfonylurea receptor 1B [Rattus norvegicus]	9.6
4257	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-009	<NONE>	<NONE>	<NONE>
4258	L11130	Influenza A/gull/MD/19/77 (H2N8) hemagglutinin	0.67	<NONE>	<NONE>	<NONE>
4259	AB018270	Homo sapiens mRNA for KIAA0727 protein, partial cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3
4260	U67494	Methanococcus jannaschii section 36 of 150 of the complete genome	0.014	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4261	L09209	Homo sapiens amyloid protein homologue mRNA, complete cds > :: gb|I13782|I13782 Sequence 12 from patent US 5441931 > :: gb|I68752|I68752 Sequence 12 from patent US 5677146	6e-089	<NONE>	<NONE>	<NONE>
4262	M27866	Human retinoblastoma susceptibility protein gene, exon 27. > :: gb|I09392| Sequence 25 from Patent WO 8906703	e-158	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.7
4263	U59629	Human transcription factor LZIP-alpha mRNA, complete cds	1e-052	2828799	(U55386) unknown [Anabaena PCC7120]	0.097
4264	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	3176395	(AB015041) PIF1 [Caenorhabditis elegans]	3e-005
4265	AF069250	Homo sapiens okadaic acid-inducible phosphoprotein (OA48-18) mRNA, complete cds	2e-068	3037018	(AF041330) NADH dehydrogenase subunit 5 [Bodo saltans]	0.002
4266	M11560	Human aldolase A mRNA, complete cds.	0.00E+00	113606	FRUCTOSE-BISPHOSPHATE ALDOLASE A fructose-bisphosphate aldolase (EC 4.1.2.13) A - human sapiens]	5e-055

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4267	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-009	<NONE>	<NONE>	<NONE>
4268	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-005	2688708	(AE001176) conserved hypothetical protein [Borrelia burgdorferi]	8.5
4269	L35566	Gallus gallus homeobox protein (LH-2) mRNA, complete cds.	6e-041	1708809	HOMEOBOX PROTEIN LH-2 >gi|508712	7e-019
4270	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-11	1709997	DNA REPAIR PROTEIN RAD18 >gi|1150622 protein rad18 [Schizosaccharomyces pombe]	6e-027
4271	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-009	586442	NUCLEOPORIN NUP170 (NUCLEAR PORE PROTEIN NUP170) >gi|626192|pir||S45429 probable membrane protein YBL079w - yeast (Saccharomyces cerevisiae) cerevisiae] >gi|536127 (Z35840) ORF YBL079w	0.44
4272	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-013	<NONE>	<NONE>	<NONE>
4273	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4274	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4275	X00334	Drosophila virilis simple DNA sequence (pDv-19)	6e-010	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	2e-016
4276	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4277	AF069250	Homo sapiens okadaic acid-inducible phosphoprotein (OA48-18) mRNA, complete cds	2e-068	3037018	(AF041330) NADH dehydrogenase subunit 5 [Bodo saltans]	0.002
4278	Y10183	H.sapiens mRNA for MEMD protein	e-162	<NONE>	<NONE>	<NONE>
4279	D86960	Human mRNA for KIAA0205 gene, complete cds	2e-078	<NONE>	<NONE>	<NONE>
4280	X65319	Cloning vector pCAT-Enhancer	3e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4281	X86693	H.sapiens mRNA for hevin like protein	0.18	<NONE>	<NONE>	<NONE>
4282	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0001	<NONE>	<NONE>	<NONE>
4283	M33156	A.aegypti D7 gene, exons 1-5.	1.30E+00	<NONE>	<NONE>	<NONE>
4284	X02317	Human mRNA for Cu/Zn superoxide dismutase (SOD)	0	218564	(D90358) HB-SOD [Schizosaccharomyces pombe]	7e-032

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4285	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-04	<NONE>	<NONE>	<NONE>
4286	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-04	<NONE>	<NONE>	<NONE>
4287	X02317	Human mRNA for Cu/Zn superoxide dismutase (SOD)	0	134611	SUPEROXIDE DISMUTASE (CU-ZN) dismutase (aa 1-154) [Homo sapiens] >gi|338276 (K00065) superoxide dismutase [Homo sapiens] >gi|1237407 (L44139) Cu/Zn-superoxide dismutase [Homo sapiens]	2e-079
4288	X04408	Human mRNA for coupling protein G(s) alpha subunit adenylyl cyclase)	0	386748	(M14631) guanine nucleotide-binding protein alpha subunit	2e-073
4289	M28161	Rabbit MHC class II RLA-DR-alpha gene, complete cds.	2.4	<NONE>	<NONE>	<NONE>
4290	U33956	Human Down Syndrome region of chromosome 21, genomic sequence, clone A12H1-1F8.	0.37	<NONE>	<NONE>	<NONE>
4291	U90331	Mus musculus neural plakophilin related arm-repeat protein (NPRAP) mRNA, complete cds	0.15	135063	SUPPRESSOR OF SABLE PROTEIN fruit fly (Drosophila melanogaster) >gi|158517 (M57889) su(s) protein	5.2

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					[Drosophila melanogaster]	
4292	AF045531	Homo sapiens germline chromosome 22, 22q11.2 region	0.005	<NONE>	<NONE>	<NONE>
4293	D86960	Human mRNA for KIAA0205 gene, complete cds	2e-078	<NONE>	<NONE>	<NONE>
4294	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4295	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	5.00E-03	<NONE>	<NONE>	<NONE>
4296	U17073	Neurospora crassa frequency (frq) mRNA, complete cds.	0.041	3152938	(AF065482) sorting nexin 2 [Homo sapiens]	0.83
4297	M93051	Pisum sativum ascorbate peroxidase (ApxI) gene, complete cds.	0.2	<NONE>	<NONE>	<NONE>
4298	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.37	<NONE>	<NONE>	<NONE>
4299	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	0.37	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4300	U20240	Human C/EBP gamma mRNA, complete cds > :: gb|G28590|G28590 human STS SHGC-35371.	e-141	1705750	CCAAT/ENHANCER BINDING PROTEIN GAMMA (C/EBP GAMMA) >gi|1363931|pir||JC4243 transcription CCAAT enhancer binding protein-gamma - human >gi|727294 (U20240) C/EBP gamma [Homo sapiens]	1e-011
4301	Y16359	Calonectris diomedea random amplified polymorphic DNA, clone Cd-O8f1	4e-075	595780	(U13871) lacZ alpha peptide [Cloning vector]	0.0001
4302	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-013	<NONE>	<NONE>	<NONE>
4303	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4304	U90331	Mus musculus neural plakophilin related arm-repeat protein (NPRAP) mRNA, complete cds	0.15	135063	SUPPRESSOR OF SABLE PROTEIN fruit fly (Drosophila melanogaster) >gi|158517 (M57889) su(s) protein [Drosophila melanogaster]	5.2
4305	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4306	D86960	Human mRNA for KIAA0205 gene, complete cds	0	1653865	(D90917) UDP-N-acetylglucosamine -N-acetylmuramyl-(pentape ptide) pyrophosphoryl - undecaprenol N-acetylglucosamine transferase [Synechocystis sp.]	4.40E+00

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4307	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-013	4105520	(AF046933) carboxysome structural polypeptide	2.4
4308	Y14723	Choanomphalus incertus mitochondrial cytochrome c oxidase subunit I gene, partial	0.36	<NONE>	<NONE>	<NONE>
4309	AB018327	Homo sapiens mRNA for KIAA0784 protein, partial cds	0	3882289	(AB018327) KIAA0784 protein [Homo sapiens]	4e-041
4310	AB007860	Homo sapiens KIAA0400 mRNA, complete cds	0	<NONE>	<NONE>	<NONE>
4311	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4312	U96440	Drosophila melanogaster cut gene, partial sequence	0.053	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	0.0004
4313	X64707	H.sapiens BBC1 mRNA	3e-090	1350662	60S RIBOSOMAL PROTEIN L13 (A52)	2e-025
4314	U67522	Methanococcus jannaschii section 64 of 150 of the complete genome	0.38	<NONE>	<NONE>	<NONE>
4315	M11560	Human aldolase A mRNA, complete cds.	0.00E+00	113606	FRUCTOSE-BISPHOSPHATE ALDOLASE A fructose-bisphosphate aldolase (EC 4.1.2.13) A - human sapiens]	5e-055

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4316	X92098	H.sapiens mRNA for transmembrane protein rmp24	e-123	3914237	COP-COATED VESICLE MEMBRANE PROTEIN P24 PRECURSOR (P24A) (RNP24) >gi|1212965|gnl|PID|e205529	1e-017
4317	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4318	D86960	Human mRNA for KIAA0205 gene, complete cds	0	1653865	(D90917) UDP-N-acetylglucosamine -N-acetylmuramyl-(pentape ptide) pyrophosphoryl - undecaprenol N-acetylglucosamine transferase [Synechocystis sp.]	4.40E+00
4319	M83094	Homo sapiens cytosolic selenium-dependent glutathione peroxidase gene, complete cds, and rhoh12 gene, 3' end.	0.00E+00	<NONE>	<NONE>	<NONE>
4320	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5e-015	<NONE>	<NONE>	<NONE>
4321	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
4322	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3.3	<NONE>	<NONE>	<NONE>
4323	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1.40E-02	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4324	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4325	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>
4326	AF088034	Homo sapiens full length insert cDNA clone ZC24F03	0	854598	(X87611) ORF YJR83.18 [Saccharomyces cerevisiae]	2e-024
4327	U47322	Cloning vector DNA, complete sequence.	6.00E-06	<NONE>	<NONE>	<NONE>
4328	U47322	Cloning vector DNA, complete sequence.	6.00E-06	<NONE>	<NONE>	<NONE>
4329	D86960	Human mRNA for KIAA0205 gene, complete cds	0.00E+00	1653865	(D90917) UDP-N-acetylglucosamine -N-acetylmuramyl-(pentape ptide) pyrophosphoryl - undecaprenol N-acetylglucosamine transferase [Synechocystis sp.]	1.4
4330	Z70316	D.melanogaster mRNA for tyramine-beta-hydroxylase	1.5	<NONE>	<NONE>	<NONE>
4331	L28010	Homo sapiens HnRNP F protein mRNA, complete cds	3e-070	1710628	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN F (HNRNP F) >gi|631210|pir||S43484 hnRNP F protein - human >gi|452048 (L28010) HnRNP F protein [Homo sapiens]	2e-005
4332	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.40E-01	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4333	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.13	<NONE>	<NONE>	<NONE>
4334	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.004	1723286	VERY HYPOTHETICAL 11.9 KD PROTEIN C4H3.12C IN CHROMOSOME I >gi|1184025 (Z69380) unknown	3.1
4335	<NONE>	<NONE>	<NONE>	2314752	(AE000654) rare lipoprotein A (rlpA) [Helicobacter pylori]	7.3
4336	AB007963	Homo sapiens mRNA for KIAA0494 protein, complete cds	8e-078	3413938	(AB007963) KIAA0494 protein [Homo sapiens]	1.00E-11
4337	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4338	X12597	Human mRNA for high mobility group-1 protein	3e-048	123371	HIGH MOBILITY GROUP PROTEIN HMG1 protein HMG-1 - pig >gi|164490 (M21683) non-histone protein HMG1 [Sus scrofa]	0.006
4339	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-013	2853095	(AL021767) very hypothetical protein	0.043
4340	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4341	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-006	3063453	(AC003981) F22O13.15 [Arabidopsis thaliana]	4.5

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4342	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4.00E-11	231629	BILE-SALT-ACTIVATED LIPASE PRECURSOR ESTER LIPASE) (STEROL ESTERASE) (CHOLESTEROL ESTERASE) salt-activated lipase [Homo sapiens] sapiens]	9.6
4343	L31732	Human STS UT643, 5' primer bind.	1.6	<NONE>	<NONE>	<NONE>
4344	AF037332	Homo sapiens Eph-like receptor tyrosine kinase hEphB1b (EphB1) mRNA, complete cds	0.66	<NONE>	<NONE>	<NONE>
4345	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4346	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2.00E-05	<NONE>	<NONE>	<NONE>
4347	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-007	<NONE>	<NONE>	<NONE>
4348	Z30961	H.sapiens DNA for Mhc Alu elements	7.00E-17	728835	!!!! ALU SUBFAMILY SC WARNING ENTRY	0.5
4349	U34887	Yeast integrating vector pRS306 containing a fragment of lacZ.	7e-068	3152967	(Y14016) hypothetical protein	9
4350	D28124	Human mRNA for unknown product, complete cds	0	1825638	(U88172) similar to protein-tyrosine phosphatase	0.062
4351	AF069503	Carcharhinus plumbeus microsatellite repeat region	4.20E+00	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4352	AF069503	Carcharhinus plumbeus microsatellite repeat region	4.20E+00	<NONE>	<NONE>	<NONE>
4353	D10848	Alkalophilic Bacillus sp. genomic DNA for lipo-penicillinase	0.033	<NONE>	<NONE>	<NONE>
4354	D28124	Human mRNA for unknown product, complete cds	0	1825638	(U88172) similar to protein-tyrosine phosphatase	0.062
4355	U19482	Mus musculus C10-like chemokine mRNA, complete cds	3.70E+00	<NONE>	<NONE>	<NONE>
4356	AF050068	Homo sapiens growth arrest specific 11	1.4	1916844	(U82987) Bcl-2 binding component 3 [Homo sapiens]	0.042
4357	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4358	AE000026	Mycoplasma pneumoniae section 26 of 63 of the complete genome	1.3	<NONE>	<NONE>	<NONE>
4359	<NONE>	<NONE>	<NONE>	2114321	(D88733) membrane glycoprotein [Equine herpesvirus 1]	8.00E-01
4360	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4361	Y07660	M.tuberculosis accBC gene	2e-068	465847	HYPOTHETICAL 66.5 KD PROTEIN F02A9.5 IN CHROMOSOME III >gi|280542|pir||S28313 hypothetical protein F02A9.5 - Caenorhabditis elegans Genefinder; similar to Propionyl-CoA carboxylase beta chain; cDNA EST EMBL:M89018 comes from this gene; cDNA EST EMBL:D2806	4e-079
4362	U12022	Human calmodulin (CALM1) gene, exons 2,3,4,5 and 6, and complete cds	e-127	<NONE>	<NONE>	<NONE>
4363	AC001178	Homo sapiens (subclone 2_g12 from BAC H94) DNA sequence	3.00E-28	<NONE>	<NONE>	<NONE>
4364	<NONE>	<NONE>	<NONE>	4063042	(AF068065) GP900; mucin-like glycoprotein [Cryptosporidium parvum]	0.52
4365	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4366	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1.00E-12	<NONE>	<NONE>	<NONE>
4367	X14448	Human GLA gene for alpha-D-galactosidase A (EC 3.2.1.22)	3	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4368	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	5.00E-04	3873753	(Z66519) similar to phytoene synthase precursor; cDNA EST yk340f7.3 comes from this gene; cDNA EST yk340f7.5 comes from this gene [Caenorhabditis elegans]	2e-008
4369	X04098	Human mRNA for cytoskeletal gamma-actin	0	<NONE>	<NONE>	<NONE>
4370	M13452	Human lamin A mRNA, 3'end.	0	125962	LAMIN A (70 KD LAMIN)	3e-057
4371	AF068863	Homo sapiens oligodendrocyte-specific protein	3.4	<NONE>	<NONE>	<NONE>
4372	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.40E-01	<NONE>	<NONE>	<NONE>
4373	L04636	Homo sapiens pre-mRNA splicing factor 2 p32 subunit (SF2p32) mRNA, complete cds.	0	730772	COMPLEMENT COMPONENT 1, Q SUBCOMPONENT BINDING PROTEIN PRECURSOR (GLYCOPROTEIN GC1QBP) (GC1Q-R PROTEIN) (HYALURONAN-BINDING PROTEIN 1) chain precursor - human >gi|338045 (L04636) splicing factor [Homo sapiens] >gi|472956 (X75913) gCIq-R [Homo sapiens] >gi	2e-050
4374	M59832	Human merosin mRNA, 3' end.	0.043	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4375	<NONE>	<NONE>	<NONE>	188864	(M74027) mucin [Homo sapiens]	0.042
4376	X17206	Human mRNA for LLRep3	0	88570	ribosomal protein S2 - human (fragment) sapiens]	6e-078
4377	X17206	Human mRNA for LLRep3	0	88570	ribosomal protein S2 - human (fragment) sapiens]	6e-078
4378	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4379	X98420	S.shibatae topR gene	1.10E+00	2746890	(AF040655) No definition line found [Caenorhabditis elegans]	9.3
4380	X98420	S.shibatae topR gene	1.10E+00	2746890	(AF040655) No definition line found [Caenorhabditis elegans]	9.3
4381	X75787	P.falciparum (FAF-2) mRNA for aspartic hemoglobinase	4	<NONE>	<NONE>	<NONE>
4382	AF044209	Homo sapiens nuclear receptor co-repressor N-CoR mRNA, complete cds	0	3510603	(AF044209) nuclear receptor co-repressor N-CoR [Homo sapiens]	4e-029
4383	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4384	X64707	H.sapiens BBC1 mRNA	e-110	1350662	60S RIBOSOMAL PROTEIN L13 (A52)	0.003
4385	Z70316	D.melanogaster mRNA for tyramine-beta-hydroxylase	1.5	<NONE>	<NONE>	<NONE>
4386	AF000371	Vitis vinifera UDP glucose:flavonoid 3-o-glucosyltransferase mRNA, partial cds	0.19	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4387	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.8
4388	AE000688	Aquifex aeolicus section 20 of 109 of the complete genome	3.8	<NONE>	<NONE>	<NONE>
4389	L05612	Dictyostelium purpureum DNA sequence, repeat region.	2.8	<NONE>	<NONE>	<NONE>
4390	U33761	Human cyclin A/CDK2-associated p45 (Skp2) mRNA, complete cds	2e-079	2134952	cyclin A/CDK2-associated p45 - human sapiens]	1e-025
4391	U48288	Rattus norvegicus A-kinase anchoring protein AKAP 220 mRNA, complete cds	0.48	<NONE>	<NONE>	<NONE>
4392	AB007963	Homo sapiens mRNA for KIAA0494 protein, complete cds	0.00E+00	3413938	(AB007963) KIAA0494 protein [Homo sapiens]	6e-071
4393	<NONE>	<NONE>	<NONE>	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	6e-027
4394	U52784	Ansonia muelleri CMNH H1476 16S rRNA gene, mitochondrial gene encoding mitochondrial rRNA, partial sequence	0.014	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4395	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4396	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4397	U38376	Rattus norvegicus cytosolic phospholipase A2 mRNA, complete cds	1.1	<NONE>	<NONE>	<NONE>
4398	U78770	Mus musculus spasmolytic polypeptide (mSP) gene, complete cds	0.028	<NONE>	<NONE>	<NONE>
4399	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.12	<NONE>	<NONE>	<NONE>
4400	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.8
4401	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0003	<NONE>	<NONE>	<NONE>
4402	X70288	H.sapiens gene for thioredoxin, exons 4 and 5	3e-030	<NONE>	<NONE>	<NONE>
4403	X76683	Plasmid vector pHM2 betalactamase gene	7e-080	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4404	X69295	H.sapiens MSX2 mRNA for transcription factor	0.43	<NONE>	<NONE>	<NONE>
4405	U20371	Mus musculus homeobox protein (Hoxa11) gene, complete cds.	0.6	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4406	D49842	Rabbit mRNA for CD86, complete cds	1.10E+00	135554	TETRACYCLINE RESISTANCE PROTEIN Bacillus cereus plasmid pBC16 >gi|72838|pir||YTSOG tetracycline resistance protein - Streptococcus agalactiae plasmid pMV158 >gi|80428|pir||JQ1211 tetracycline resistance protein - Bacillus sp. plasmid pTB19 >gi|151696 (M63	1.4
4407	AB007194	Oryza sativa mRNA for fructose-1,6-bisphosphatase (plastidic isoform), complete cds	3.5	<NONE>	<NONE>	<NONE>
4408	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1e-007	<NONE>	<NONE>	<NONE>
4409	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4410	U28924	Pisum sativum cytosolic glutamine synthetase	0.008	3769486	(AF074946) DNA polymerase [hemorrhagic enteritis virus]	1.3
4411	D30783	Homo sapiens mRNA for epiregulin, complete cds	0	1723438	HYPOTHETICAL 52.3 KD PROTEIN C56F8.06C IN CHROMOSOME I PRECURSOR >gi|1204228 (Z69728) unknown [Schizosaccharomyces pombe]	0.13
4412	AJ012449	Homo sapiens mRNA for NS1-binding protein	0	3851214	(AJ012449) NS1-binding protein [Homo sapiens]	4e-088

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4413	X62357	H.sapiens Alu repeat (clones 2-48)	1e-006	<NONE>	<NONE>	<NONE>
4414	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6.00E-05	<NONE>	<NONE>	<NONE>
4415	Z15015	D.pulex mitochondrion genes for NADH dehydrogenase subunit 2, cytochrome C oxidase subunit I, tRNA-Val, tRNA-Ile, tRNA-Gln, tRNA-fMet, tRNA-Trp, tRNA-Cys, tRNA-Tyr, small subunit rRNA, large subunit rRNA	2.2	1076802	extensin-like protein - maize >gi|600118	8e-027
4416	D87942	Homo sapiens mRNA for alpha(1,2)fucosyl transferase, complete cds	2e-027	728838	!!!! ALU SUBFAMILY SX WARNING ENTRY	7.5
4417	D86977	Human mRNA for KIAA0224 gene, complete cds	0	3024898	PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE KIAA0224 (HA4657) putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens] >gi|3123906 (AF038391) pre-mRNA splicing factor [Homo sapiens]	2e-053

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4418	L28010	Homo sapiens HnRNP F protein mRNA, complete cds	0	1710628	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN F (HNRNP F) >gi|631210|pir||S43484 hnRNP F protein - human >gi|452048 (L28010) HnRNP F protein [Homo sapiens]	5e-045
4419	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
4420	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
4421	X14313	Arabidopsis CRB gene for 12S seed storage protein > gene, exons 1-4.	0.24	<NONE>	<NONE>	<NONE>
4422	X14313	Arabidopsis CRB gene for 12S seed storage protein > gene, exons 1-4.	0.24	<NONE>	<NONE>	<NONE>
4423	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
4424	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	3.00E-08	1125753	(U42833) coded for by C. elegans cDNA CEESN37F; Similar to ammonium transport protein. [Caenorhabditis elegans]	1e-019
4425	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-05	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4426	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	1125753	(U42833) coded for by C. elegans cDNA CEESN37F; Similar to ammonium transport protein. [Caenorhabditis elegans]	2e-008
4427	AF053649	Homo sapiens cellular apoptosis susceptibility protein (CSE1) gene, exons 15 and 16	3e-008	<NONE>	<NONE>	<NONE>
4428	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1e-007	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	8.8
4429	X94253	S.scrofa mRNA for heterogeneous nuclear ribonucleoprotein	6e-023	<NONE>	<NONE>	<NONE>
4430	AF005039	Homo sapiens secretory carrier membrane protein	0	2232243	(AF005039) secretory carrier membrane protein [Homo sapiens]	8e-008
4431	AF037332	Homo sapiens Eph-like receptor tyrosine kinase hEphB1b (EphB1) mRNA, complete cds	0.12	3861156	(AJ235272) unknown [Rickettsia prowazekii]	0.37
4432	D28124	Human mRNA for unknown product, complete cds	7e-067	<NONE>	<NONE>	<NONE>
4433	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-013	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4434	M93426	Human protein tyrosine phosphatase zeta-polypeptide (PTPRZ) mRNA, complete cds. > :: gb|G20044|G20044 sWSS1987 Eric D. Green Homo sapiens STS genomic, sequence tagged site [Homo sapiens]	0	400199	PROTEIN-TYROSINE PHOSPHATASE ZETA PRECURSOR (R-PTP-ZETA) >gi|476869|pir||A46151 protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type zeta - human >gi|190744 (M93426) protein tyrosine phosphatase zeta-polypeptide [Homo sapiens]	4e-051
4435	U54562	Human translation initiation factor eIF3 p48 subunit (Int-6) mRNA, complete cds	0	2498490	VIRAL INTEGRATION SITE PROTEIN INT-6 >gi|1854579 (L35556) Int-6 [Mus musculus] sapiens] >gi|2351382 (U54562) eIF3-p48 [Homo sapiens] sapiens]	e-110
4436	U54562	Human translation initiation factor eIF3 p48 subunit (Int-6) mRNA, complete cds	0	2498490	VIRAL INTEGRATION SITE PROTEIN INT-6 >gi|1854579 (L35556) Int-6 [Mus musculus] sapiens] >gi|2351382 (U54562) eIF3-p48 [Homo sapiens] sapiens]	e-110
4437	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.12	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4438	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-009	<NONE>	<NONE>	<NONE>
4439	X03558	Human mRNA for elongation factor 1 alpha subunit	0	1169475	ELONGATION FACTOR 1-ALPHA 1	4e-083
4440	J03607	Human 40-kDa keratin intermediate filament precursor gene.	0	1070608	keratin 19, type I, cytoskeletal - human sapiens]	4e-058
4441	<NONE>	<NONE>	<NONE>	4063042	(AF068065) GP900; mucin-like glycoprotein [Cryptosporidium parvum]	0.011
4442	<NONE>	<NONE>	<NONE>	4063042	(AF068065) GP900; mucin-like glycoprotein [Cryptosporidium parvum]	0.011
4443	Y13401	Homo sapiens CD3 delta gene, enhancer sequence	8e-008	<NONE>	<NONE>	<NONE>
4444	X04409	Human mRNA for coupling protein G(s) alpha-subunit (alpha-S1) (stimulatory regulatory component Gs of adenylyl cyclase)	0	71879	GTP-binding regulatory protein Gs alpha chain G-s-alpha-4 [Homo sapiens]	7e-092
4445	AF038958	Homo sapiens synaptic glycoprotein SC2 spliced variant mRNA, complete cds	1e-072	3329386	(AF038958) synaptic glycoprotein SC2 spliced variant	6e-019
4446	D17244	Human HepG2 3' region MboI cDNA, clone hmd4h04m3	1e-075	2500256	50S RIBOSOMAL PROTEIN L13 protein L13 [Streptomyces coelicolor]	0.043

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4447	<NONE>	<NONE>	<NONE>	4063042	(AF068065) GP900; mucin-like glycoprotein [Cryptosporidium parvum]	0.005
4448	M24597	Beet curly top virus (clone pBCT028) DNA, complete genome.	4.1	<NONE>	<NONE>	<NONE>
4449	U59706	Gallus gallus alternatively spliced AMPA glutamate receptor, isoform GluR2 flop, (GluR2) mRNA, partial cds.	0.014	3283975	(AF072521) poly-(ADPribosyl)-transferase homolog PARP	0.02
4450	AJ010014	Homo sapiens mRNA for M96A protein	0	3342452	(AF072814) PHD finger DNA binding protein isoform 1	2e-029
4451	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4452	X06960	Aspergillus nidulans mitochondrial DNA for cytochrome oxidase subunit 3, tRNA-Tyr	0.23	<NONE>	<NONE>	<NONE>
4453	L01089	Human profilaggrin (FLG) gene exons 2-3, 5'end.	1.3	<NONE>	<NONE>	<NONE>
4454	X65319	Cloning vector pCAT-Enhancer	1e-071	987050	(X65335) lacZ gene product [unidentified cloning vector]	1e-014
4455	X87212	H.sapiens mRNA for cathepsin C	0	1582221	prepro-cathepsin C [Homo sapiens]	6e-046
4456	X53123	Cloning vector pAST 19a for C. elegans	5	<NONE>	<NONE>	<NONE>
4457	D15057	Human mRNA for DAD-1, complete cds	0	2944452	(AF051310) defender against death 1 [Mus musculus]	1e-015

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4458	X83860	H.sapiens mRNA for prostaglandin E receptor (EP3c)	1.2	2137044	unknown protein - rabbit (fragment) cuniculus]	7e-014
4459	M95058	Rattus rattus steroid 5-alpha-reductase 2 mRNA, complete cds.	0.42	<NONE>	<NONE>	<NONE>
4460	AF044588	Homo sapiens protein regulating cytokinesis 1	2e-043	2865521	(AF044588) protein regulating cytokinesis 1; PRC1 [Homo sapiens]	4e-015
4461	X54282	Human chromosome 11 DNA, approx. 20 kb 3' of beta-globin gene, nuclear scaffold associated region	0.014	1911867	cadherin 3 [Caenorhabditis elegans, Peptide, 3337 aa]	9.8
4462	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	3875640	(Z92781) F09C3.3 [Caenorhabditis elegans]	9.6
4463	M73791	Human novel gene mRNA, complete cds.	0	1172810	60S RIBOSOMAL PROTEIN L10 (QM PROTEIN HOMOLOG) >gi|543339|pir||JC 2013 ribosomal protein L10, cytosolic - mouse >gi|2143959|pir||J C4911 ribosomal protein L10 - rat >gi|407466 (X75312) QM protein [Mus musculus] >gi|410742 (M93980) 24.6 kda protein [Mus musc	7e-085
4464	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4465	Z27116	S.cerevisiae HBS1, MRP-L20 and PRP-16 genes	0.058	<NONE>	<NONE>	<NONE>
4466	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4467	M96575	Drosophila melanogaster collagen type IV gene, complete cds.	3.60E+00	<NONE>	<NONE>	<NONE>
4468	D50010	Human DNA for alpha-platelet-derived growth factor receptor, exon 15	1e-006	<NONE>	<NONE>	<NONE>
4469	X70649	Homo sapiens DDX1 gene, complete CDS	0	539572	DEAD box protein RB - human	3e-036
4470	AJ223377	Puumala virus S-segment RNA	1.4	<NONE>	<NONE>	<NONE>
4471	Y14599	Staphylococcus xylosus lacR, lacP, lacH genes and 2 ORF's	1.4	3659505	(AC005084) similar to mouse mCASK-A; similar to e1288039	0.63
4472	X13336	Spinach plastid genes rps3, rps19, rpl14, rpl16 and rpl22 for ribosomal proteins S3, S19, L14, L16 and L22	0.15	1330375	(U58758) similar to rat GAP-associated protein p190	0.27
4473	AF056022	Homo sapiens p60 katanin mRNA, complete cds	0	3283072	(AF056022) p60 katanin [Homo sapiens]	7e-029
4474	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
4475	M86849	Human connexin 26 (GJB2) mRNA.	0	127542	ALDOSE 1-EPIMERASE PRECURSOR calcoaceticus]	5.2
4476	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4477	X95455	G.gallus mRNA for RING zinc finger	9e-031	1321818	(X95455) RING zinc finger protein protein [Gallus	9e-038

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					gallus]	
4478	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.13	<NONE>	<NONE>	<NONE>
4479	J03607	Human 40-kDa keratin intermediate filament precursor gene.	0	1070608	keratin 19, type I, cytoskeletal - human sapiens]	9e-068
4480	M90104	Human splicing factor SC35 mRNA, complete cds.	e-120	3929382	SPLICING FACTOR, ARGININE/SERINE-RICH 10 (PUTATIVE MYELIN REGULATORY FACTOR 1) (MRF-1) >gi|555924 (U14648) putative myelin regulatory factor 1; MRF-1 [Mus musculus]	1.1
4481	AF020762	Homo sapiens clone 1400 unknown protein mRNA, partial cds	6e-067	<NONE>	<NONE>	<NONE>
4482	AE001386	Plasmodium falciparum chromosome 2, section 23 of 73 of the complete sequence	0.72	<NONE>	<NONE>	<NONE>
4483	AF054868	Pseudomonas aeruginosa autoinducer synthetase chloramphenicol-sensitive protein (rarD), and hypothetical protein (yafL) gene...	0.005	1709793	SALIVARY PROLINE-RICH PROTEIN PO sapiens]	0.13
4484	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4485	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4486	AE001406	Plasmodium falciparum chromosome 2, section 43 of 73 of the complete sequence	0.001	<NONE>	<NONE>	<NONE>
4487	AE001417	Plasmodium falciparum chromosome 2, section 54 of 73 of the complete sequence	2.1	<NONE>	<NONE>	<NONE>
4488	X90446	Canine herpesvirus DNA for ORF 1 (HSV1 UL44, EHV1 ORF 15 homolog) ORF2 (EHV1 ORF 16 homolog)	4.4	<NONE>	<NONE>	<NONE>
4489	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.17	4008355	(Z68297) Similarity to Yeast TAT-binding homolog 7 (SW:TBP7_YEAST); cDNA EST EMBL:D37124 comes from this gene; cDNA EST EMBL:D35150 comes from this gene; cDNA EST EMBL:D35400 comes from this gene; cDNA EST EMBL:D34900 comes ... >gi|4008373|gnl|PID|e135984	3e-007
4490	D78130	Homo sapiens mRNA for squalene epoxidase, complete cds	0	2443316	(D78130) squalene epoxidase [Homo sapiens]	5e-008
4491	L18931	Buchnera aphidicola Arginyl tRNA synthetase	0.16	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
		promoter region.				
4492	X17206	Human mRNA for LLRep3	e-112	1350976	40S RIBOSOMAL PROTEIN S2 >gi|939718	2e-005
4493	D28473	Human T-lymphocyte mRNA for isoleucyl-tRNA synthetase, complete cds	e-157	440799	(U04953) isoleucyl-tRNA synthetase [Homo sapiens]	3e-005
4494	L13624	Cercopithecus aethiops C4 complement	3.6	<NONE>	<NONE>	<NONE>
4495	M13011	Rat c-ras-H-1 gene, complete cds.	0.25	<NONE>	<NONE>	<NONE>
4496	Y10252	L.japonicus panC gene	0.38	627071	histidine-rich protein - Plasmodium lophurae	4.4
4497	X76683	Plasmid vector pHM2 betalactamase gene	1e-093	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4498	M24486	Human prolyl 4-hydroxylase alpha subunit mRNA, complete cds, clone PA-11.	0	129365	PROLYL 4-HYDROXYLASE ALPHA SUBUNIT 1.14.11.2) alpha chain - chicken	2e-057
4499	D80004	Human mRNA for KIAA0182 gene, partial cds	2e-068	<NONE>	<NONE>	<NONE>
4500	U22233	Human methylthioadenosine phosphorylase (MTAP) mRNA, complete cds.	0	<NONE>	<NONE>	<NONE>
4501	D63875	Human mRNA for KIAA0155 gene, complete cds > :: gb|G28541|G28541 human STS SHGC-31621.	0	961442	(D63875) KIAA0155 gene product is related to C.elegans B0464.2 protein. [Homo sapiens]	2e-019

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4502	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4503	X85018	H.sapiens mRNA for UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase (T1)	e-110	1709559	POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDP ACETYLGALACTOSAMINYLTRANSFERASE) N-ACETYLGALACTOSAMINYLTRANSFERASE) (GALNAC-T1) polypeptide N-acetylgalactosaminyltransferase [Rattus norvegicus]	2e-018
4504	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4505	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4506	AF067782	Papio hamadryas BC200 alpha scRNA gene, complete sequence	0.48	<NONE>	<NONE>	<NONE>
4507	AF073298	Homo sapiens 4F5rel mRNA, complete cds	e-166	3641536	(AF073297) 4F5rel [Mus musculus] >gi|3641538 (AF073298) 4F5rel [Homo sapiens]	3e-013
4508	M12922	Yeast (S.cerevisiae) chromosome III L terminal region DNA.	2e-010	188864	(M74027) mucin [Homo sapiens]	6e-023
4509	X69524	M.squamata cabc1 mRNA for chlorophyll a/b/c binding protein precursor	1.3	<NONE>	<NONE>	<NONE>
4510	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	1.2	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4512	U12404	Human Csa-19 mRNA, complete cds.	0	1709973	60S RIBOSOMAL PROTEIN L10A (CSA-19)	4e-056
4513	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-014	<NONE>	<NONE>	<NONE>
4514	<NONE>	<NONE>	<NONE>	121627	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 1 PRECURSOR >gi|82244|pir||A26 099 glycine-rich cell wall structural protein - garden petunia >gi|20553 hybrida] >gi|225181|prf||12 10313A Gly rich structural protein [Petunia sp.]	2e-030
4515	D87255	Hepatitis G virus RNA for polyprotein, complete cds	0.19	930045	(X15332) alpha-1 (III) collagen [Homo sapiens]	0.002
4516	U31820	Gallus gallus Mel-1a melatonin receptor mRNA, complete cds.	3.3	1718187	ENVELOPE GLYCOPROTEIN GP340 glycoprotein 350/220 - human herpesvirus 4 >gi|59164 virus] >gi|306293 (L07923) glycoprotein 340	0.096
4517	X68107	M.sativa msCHSII mRNA for chalcone synthase	3.4	<NONE>	<NONE>	<NONE>
4518	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4519	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	6e-006	1065484	(U40415) similar to S. cerevisiae LAG1 (SP:P38703)	0.001

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4520	D87671	Rat mRNA for TIP120, complete cds	1e-043	1799570	(D87671) TIP120 [Rattus norvegicus]	0.01
4521	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4522	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4523	X16869	Human mRNA for elongation factor 1-alpha (clone CEF4)	4e-022	1085204	translation elongation factor eEF-1 alpha chain - zebra fish >gi|408805 (L23807) elongation factor 1-alpha [Danio rerio] >gi|454915 (X77689) translational elongation factor-1 alpha [Danio rerio] >gi|1009241 rerio] >gi|1091578|prf||2021264A elongation fact	5.1
4524	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-010	<NONE>	<NONE>	<NONE>
4525	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4526	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4527	AF069250	Homo sapiens okadaic acid-inducible phosphoprotein (OA48-18) mRNA, complete cds	7e-080	3037018	(AF041330) NADH dehydrogenase subunit 5 [Bodo saltans]	0.0001
4528	AF069250	Homo sapiens okadaic acid-inducible phosphoprotein (OA48-18) mRNA, complete cds	7e-080	3037018	(AF041330) NADH dehydrogenase subunit 5 [Bodo saltans]	0.0001

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4529	U66532	Human beta4-integrin (ITGB4) gene, exons 7,8,9,10,11 and 12	0.51	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	1e-023
4530	X65319	Cloning vector pCAT-Enhancer	1e-074	987050	(X65335) lacZ gene product [unidentified cloning vector]	8e-011
4531	AJ010841	Homo sapiens mRNA for putative thioredoxin-like protein	8e-028	3646128	(AJ010841) thioredoxin-like protein	0.062
4532	D14034	Human gene for Zn-alpha2-glycoprotein, complete cds	0.005	<NONE>	<NONE>	<NONE>
4533	M12670	Human fibroblast collagenase inhibitor mRNA, complete cds.	6e-098	1351250	METALLOPROTEINASE INHIBITOR 1 PRECURSOR (TIMP-1) >gi|1363927|pir||JC4303 matrix metalloproteinase-1 tissue inhibitor - baboon >gi|561546 hamadryas cynocephalus]	7e-008
4534	M17196	A.californica (marine gastropod mollusc) neuropeptide gene (ganglion R14), exon 1, 5' end.	0.019	2135765	mucin 2 precursor, intestinal - human	0.003
4535	AJ001454	Homo sapiens mRNA for testican-3	1.4	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4536	X75757	G.gallus cycB3 mRNA.	9e-040	729112	G2/MITOTIC-SPECIFIC CYCLIN B3	9e-019
4537	Z27116	S.cerevisiae HBS1, MRP-L20 and PRP-16 genes	0.058	<NONE>	<NONE>	<NONE>
4538	AF083322	Homo sapiens centriole associated protein CEP110 mRNA, complete cds	9e-051	1079393	chromokinesin - chicken >gi|603761 (U18309) chromokinesin [Gallus gallus]	0.012
4539	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4540	M26325	Human cytokeratin 18 mRNA, 3' end.	0	125083	KERATIN, TYPE I CYTOSKELETAL 18 keratin 18, type I, cytoskeletal - human >gi|34037	2e-093
4541	U37066	Human endogenous retrovirus strain XA38 pol polyprotein (pol) gene, partial cds	1.3	252486	P-selectin, CD62 [mice, Peptide, 768 aa] musculus]	1.8
4542	Z30543	Turkey herpesvirus (HVT-delUs-Beta1 PKI3) gene for protein kinase	2e-027	<NONE>	<NONE>	<NONE>
4543	M90077	Wheat translation elongation factor 1 alpha-subunit (TEF1) mRNA, complete cds.	0.14	<NONE>	<NONE>	<NONE>
4544	AJ001235	Papio hamadryas ERV-9 like LTR insertion	2e-044	<NONE>	<NONE>	<NONE>
4545	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4546	AF100654	Caenorhabditis elegans cosmid C24E9	0.41	<NONE>	<NONE>	<NONE>
4547	L28821	Homo sapiens alpha mannosidase II isozyme mRNA, complete cds.	0	1679607	(X97650) myosin-I [Mus musculus]	4.5

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4548	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	<NONE>	<NONE>	<NONE>
4549	L20140	Zea mays pollen specific pectate lyase homologue gene, complete cds.	0.92	<NONE>	<NONE>	<NONE>
4550	U33955	Human Down Syndrome region of chromosome 21, genomic sequence, clone A12H1-1F2.	4.4	<NONE>	<NONE>	<NONE>
4551	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
4552	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.042	<NONE>	<NONE>	<NONE>
4553	X12660	Human chromosome 14 Ig JH (switch mu) DNA showing scattered homology to bcl2 gene exon 2 3'UTR	1e-006	2117245	(Z95586) hypothetical protein Rv1592c	2.1
4554	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	284314	modulator recognition factor 1 - human factor I [Homo sapiens]	7.1
4555	AF070523	Homo sapiens JWA protein mRNA, complete cds	0	3322740	(AE001222) conserved hypothetical protein [Treponema pallidum]	5.9
4556	Z11900	H.sapiens OTF3 gene	0.13	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4557	M24972	D.discoideum CT-rich satellite rDNA, clone pCT8.	4e-007	2605798	(AF027735) minor ampullate silk protein MiSp1 [Nephila clavipes]	5.30E-01
4558	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-007	<NONE>	<NONE>	<NONE>
4559	D32056	Human gene for 2-oxoglutarate dehydrogenase, exon 1 sequence	0.06	<NONE>	<NONE>	<NONE>
4560	AF034085	Caenorhabditis elegans UNC-45 (unc-45) gene, complete cds	0.025	1652167	(D90903) hypothetical protein	4.8
4561	AF091242	Homo sapiens ATP sulfurylase/APS kinase 2 mRNA, complete cds	0.0003	<NONE>	<NONE>	<NONE>
4562	M31520	Human ribosomal protein S24 mRNA.	1e-031	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.7
4563	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4564	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
4565	AB015432	Rattus norvegicus mRNA for LAT1 (L-type amino acid transporter 1), complete cds	4e-022	1665759	(D87432) Similar to Schistosoma mansoni amino acid permease (L25068). [Homo sapiens]	5e-024
4566	AE001397	Plasmodium falciparum chromosome 2, section 34 of 73 of the complete sequence	0.0005	3875266	(Z77655) predicted using Genefinder; similar to 7tm receptor [Caenorhabditis elegans]	5.90E+00

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4567	AE001397	Plasmodium falciparum chromosome 2, section 34 of 73 of the complete sequence	0.0005	3875266	(Z77655) predicted using Genefinder; similar to 7tm receptor [Caenorhabditis elegans]	5.90E+00
4568	Y15155	Homo sapiens PHKB gene, exon 8, and repetitive elements	4e-033	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.7
4569	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-03	2622750	(AE000921) DNA topoisomerase I [Methanobacterium thermoautotrophicum]	2.6
4570	AE000688	Aquifex aeolicus section 20 of 109 of the complete genome	4.5	<NONE>	<NONE>	<NONE>
4571	Z95123	Caenorhabditis elegans cosmid VZK822l, complete sequence [Caenorhabditis elegans]	0.4	<NONE>	<NONE>	<NONE>
4572	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3.00E-08	<NONE>	<NONE>	<NONE>
4573	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.3
4574	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
4575	U18671	Human Stat2 gene, complete cds.	2e-023	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.002

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4576	Z83241	Caenorhabditis elegans cosmid T25C8, complete sequence [Caenorhabditis elegans] -	1.1	1176988	IOLD PROTEIN protein [Bacillus subtilis] >gi|2636519|gnl|PID|e1184698 catabolism [Bacillus subtilis]	5.3
4577	L04690	Cricetulus griseus cholesterol 7-alpha-hydroxylase gene, complete cds. > :: gb|I26617|I26617 Sequence 35 from patent US 5558999 > :: gb|AR008072|AR008072 Sequence 35 from patent US 5753431	3.2	212906	(L02621) intestinal zipper protein [Gallus gallus]	4.1
4578	Z54191	A.pleuropneumoniae tfbB gene encoding transferrin receptor.	0.54	2102696	(U72761) karyopherin beta 3 [Homo sapiens]	8.6
4579	X17025	Human homolog of yeast IPP isomerase > :: gb|G27043|G27043 human STS SHGC-31614.	2e-035	<NONE>	<NONE>	<NONE>
4580	L32977	Homo sapiens (clone f17252) ubiquinol cytochrome c reductase Rieske iron-sulphur protein (UQCRFS1) gene, exon 2	0.00E+00	1351361	UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT PRECURSOR (RIESKE IRON-SULFUR PROTEIN) (RISP) >gi|488299 (L32977) Rieske Fe-S protein	1e-070
4581	M26708	Human prothymosin alpha mRNA (ProT-alpha), complete cds.	0	190369	(J04798) open reading frame A; putative [Homo sapiens]	6e-018

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4582	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	2314130	(AE000607) H. pylori predicted coding region HP0985	3.3
4583	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	1236083	(U49507) Lisch7 [Mus musculus]	4.3
4584	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-014	348196	(L19917) immunoglobulin heavy-chain subgroup VIII V-D-J region [Homo sapiens]	9.7
4585	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4586	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4587	X52601	H.sapiens hTOP1 gene for topoisomerase, 5'end	4.6	<NONE>	<NONE>	<NONE>
4588	AF038604	Caenorhabditis elegans cosmid B0546	0.17	<NONE>	<NONE>	<NONE>
4589	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4590	U23441	Tetrahymena thermophila B internal deletion sequence.	0.0005	1469281	(U08801) envelope glycoprotein [Human immunodeficiency virus type 1]	1.1
4591	AC005276	Homo sapiens clone fragment UWGC:gap3 from 7q31.3, complete sequence [Homo sapiens]	0.009	<NONE>	<NONE>	<NONE>
4592	D84117	Homo sapiens DNA for prostacyclin synthase, exon 3	0.48	<NONE>	<NONE>	<NONE>
4593	U28153	Caenorhabditis elegans UNC-76 (unc-76) gene, complete cds.	1.30E-01	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4594	U67274	Human metastasis suppressor (KAI1) gene, exon 1, and complete cds	1e-008	<NONE>	<NONE>	<NONE>
4595	AF009621	Onchocerca volvulus cytosolic Cu/Zn superoxide dismutase (OvSOD1) and extracellular Cu/Zn superoxide dismutase (OvSOD2) genes, complete cds	4	<NONE>	<NONE>	<NONE>
4596	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4597	<NONE>	<NONE>	<NONE>	2078483	(U43200) antifreeze glycopeptide AFGP polyprotein precursor [Boreogadus saida]	0.78
4598	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4599	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4600	AL021806	Homo sapiens DNA sequence from PAC 779B17 on chromosome 22q13.1. Contains exon trap, complete sequence	4e-029	728836	!!!! ALU SUBFAMILY SP WARNING ENTRY	0.002
4601	AL022222	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-118, complete sequence	4.9	<NONE>	<NONE>	<NONE>
4602	Z73149	N.tabacum DNA (recombination breakpoint between T-DNA and plant DNA)	1.6	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4603	AF082835	Mus spretus E6-AP ubiquitin-protein ligase	4	<NONE>	<NONE>	<NONE>
4604	AF050123	Homo sapiens hypoxia-inducible factor 1 alpha subunit (HIF1A) gene, exon 10	3e-009	728838	!!!! ALU SUBFAMILY SX WARNING ENTRY	6.7
4605	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	<NONE>	<NONE>	<NONE>
4606	AF001355	Pseudomonas syringae pv. syringae DNA binding protein HpkR (hpkR), histidine protein kinase HpkY (hpkY), phosphate acceptor regulatory protein CheY-2 (cheY-2), ankyrin AnkF (ankF), and catalase isozyme catalytic subuni...	2.1	3041736	TRANSCRIPTION FACTOR SOX-11	8.9
4607	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8.00E-08	3123155	HYPOTHETICAL 49.0 KD TRP-ASP REPEATS CONTAINING PROTEIN F55F8.5 IN CHROMOSOME I family [Caenorhabditis elegans]	2e-027
4608	<NONE>	<NONE>	<NONE>	1170978	MYOCYTE NUCLEAR FACTOR (MNF) musculus]	0.18
4609	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	4e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	8.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4610	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4611	X75861	H.sapiens TEGT gene	e-177	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.8
4612	U19867	Cloning vector pSPL3, exon splicing vector, complete sequence, HIV envelope protein gp160 and beta-lactamase, complete cds.	5e-055	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-011
4613	U73332	Human non-coding genomic sequence upstream from unique L0 sequence in the alpha-globin gene cluster	8e-008	<NONE>	<NONE>	<NONE>
4614	<NONE>	<NONE>	<NONE>	193952	(J03770) homeobox protein [Mus musculus]	6
4615	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	586875	HYPOTHETICAL 29.2 KD PROTEIN IN METS-KSGA INTERGENIC REGION >gi|2127033|pir||S 66068 hypothetical protein - Bacillus subtilis subtilis] >gi|2632306|gnl|PI D|e1181972 (Z99104) similar to hypothetical proteins [Bacillus subtilis]	5e-019
4616	K00384	Yeast (S.cerevisiae) mitochondrial var1 gene, 5'	0.001	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		flank.				
4617	J04628	Rattus norvegicus 3-hydroxyiso-butyrate mRNA, 3' end.	e-154	416873	3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR (HIBADH) >gi|111295|pir||A32867 3-hydroxyisobutyrate dehydrogenase (EC 1.1.1.31) precursor - rat (fragment) >gi|556389 (J04628) 3-hydroxyisobutyrate dehydrogenase [Rattus norvegicus]	1e-049
4618	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.38	<NONE>	<NONE>	<NONE>
4619	U10361	Saccharomyces cerevisiae Snf8p (SNF8) gene, complete cds.	2.7	<NONE>	<NONE>	<NONE>
4620	D42044	Human mRNA for KIAA0090 gene, partial cds	e-151	577301	(D42044) The ha3523 gene product is related to S.cerevisiae gene product located in chromosome III. [Homo sapiens]	4e-052
4621	U10361	Saccharomyces cerevisiae Snf8p (SNF8) gene, complete cds.	2.7	<NONE>	<NONE>	<NONE>
4622	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4623	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3.00E-10	<NONE>	<NONE>	<NONE>
4624	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3.00E-10	<NONE>	<NONE>	<NONE>
4625	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4626	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4627	X06747	Human hnRNP core protein A1	7e-049	87650	heterogeneous ribonuclear particle protein A1.beta - human >gi|36102 (X06747) protein A1-alpha (AA 1-320) [Homo sapiens]	6e-005
4628	X03559	Human mRNA for F1-ATPase beta subunit (F-1 beta) > :: dbj|D00022|HUMF1B Homo sapiens mRNA for F1 beta subunit, complete cds	e-100	114549	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR >gi|106207|pir||A33370 H+-transporting ATP synthase (EC 3.6.1.34) beta chain precursor, mitochondrial - human >gi|179281 (M27132) ATP synthase beta subunit precursor [Homo sapiens]	2e-024
4629	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4630	K00915	paramecium species 1,168 mt dna dimer: replication init. region.	7.00E-05	<NONE>	<NONE>	<NONE>
4631	K00915	paramecium species 1,168 mt dna dimer: replication init. region.	7.00E-05	<NONE>	<NONE>	<NONE>
4632	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4633	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4634	Z28261	S.cerevisiae chromosome XI reading frame ORF YKR036c	0.042	417748	PROTEIN TRANSPORT PROTEIN SEC13	0.0002
4635	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4636	AF088034	Homo sapiens full length insert cDNA clone ZC24F03	0	854598	(X87611) ORF YJR83.18 [Saccharomyces cerevisiae]	2e-024
4637	M83094	Homo sapiens cytosolic selenium-dependent glutathione peroxidase gene, complete cds, and rhoh12 gene, 3' end.	3.00E-08	<NONE>	<NONE>	<NONE>
4638	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	1176711	HYPOTHETICAL 21.6 KD PROTEIN F37A4.2 IN CHROMOSOME III >gi|1078851|pir||S 44639 F37A4.2 protein - Caenorhabditis elegans >gi|458960	2e-017
4639	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	1176711	HYPOTHETICAL 21.6 KD PROTEIN F37A4.2 IN CHROMOSOME III >gi|1078851|pir||S 44639 F37A4.2 protein - Caenorhabditis elegans >gi|458960	2e-017

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4640	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4641	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4642	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	4056582	(AF039530) RepA [Egyptian sugarcane streak virus]	3.4
4643	U96174	Onchocerca volvulus OvB8 mRNA, partial cds	3.2	<NONE>	<NONE>	<NONE>
4644	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4645	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	3236220	(U62541) immunoreactive 14 kDa protein BA14k [Brucella abortus]	4.5
4646	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-005	3236220	(U62541) immunoreactive 14 kDa protein BA14k [Brucella abortus]	4.5
4647	AL010224	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 4-04, complete sequence	0.003	2492906	ANNEXIN VII (SYNEXIN) frog >gi|790544 (U16365) annexin VII [Xenopus laevis]	1.4
4648	L39413	Atractylodes japonica chloroplast NADH dehydrogenase (ndhF) gene, complete cds	0.003	<NONE>	<NONE>	<NONE>
4649	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete	4e-013	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		cds				
4650	U79403	Meleagris gallopavo microsatellite repeat sequence	0.46	2498691	OUTER DENSE FIBER PROTEIN bovine >gi|1165006 (X69514) outer dense fiber protein protein [Bos taurus]	1.4
4651	U27780	Stealth virus 1 clone C16138 T3.1	2	<NONE>	<NONE>	<NONE>
4652	U27780	Stealth virus 1 clone C16138 T3.1	2	<NONE>	<NONE>	<NONE>
4653	U78817	Saccharomyces cerevisiae killer virus M1, complete genome	0.026	<NONE>	<NONE>	<NONE>
4654	U78817	Saccharomyces cerevisiae killer virus M1, complete genome	0.026	<NONE>	<NONE>	<NONE>
4655	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4656	X07036	Human mRNA stimulatory GTP-binding protein alpha subunit	3e-071	232142	GUANINE NUCLEOTIDE-BINDING PROTEIN G(S), ALPHA SUBUNIT (ADENYLATE CYCLASE-STIMULATING G ALPHA PROTEIN) >gi|71886|pir||RG PGA2 GTP-binding regulatory protein Gs alpha-2 chain (adenylate cyclase-stimulating) - pig >gi|1958 (X63893) alpha-stimulatory subunit	8e-027

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4657	L05586	Kinetoplast Trypanosoma brucei (IsTaR 1 serodeme) putative NADH dehydrogenase subunit (nd9) mRNA, complete cds.	0.0001	4063042	(AF068065) GP900; mucin-like glycoprotein [Cryptosporidium parvum]	0.19
4658	AF044763	Cecropis ariel microsatellite HrU6 allele 1 repeat region	3e-006	<NONE>	<NONE>	<NONE>
4659	X82630	A.longa plastid rps12, orf126 and orf288 genes	0.22	<NONE>	<NONE>	<NONE>
4660	U68098	Human poly(A)-binding protein (PABP) gene, exons 6 and 7	0.023	<NONE>	<NONE>	<NONE>
4661	U68098	Human poly(A)-binding protein (PABP) gene, exons 6 and 7	0.023	<NONE>	<NONE>	<NONE>
4662	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	1022683	(U23146) SSeCKS [Rattus norvegicus]	1.4
4663	M15353	Homo sapiens cap-binding protein mRNA, complete cds	0	<NONE>	<NONE>	<NONE>
4664	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	3e-048	417134	HEPATOCYTE NUCLEAR FACTOR 3-BETA norvegicus]	2.00E-10
4665	L11707	Hevea brasiliensis Mn-superoxide dismutase (SODMn) gene, complete cds.	2.6	<NONE>	<NONE>	<NONE>
4666	D42073	Human mRNA for reticulocalbin, complete cds	3e-019	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.4

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4667	L12350	Human thrombospondin 2 (THBS2) mRNA, complete cds.	0	<NONE>	<NONE>	<NONE>
4668	L11707	Hevea brasiliensis Mn-superoxide dismutase (SODMn) gene, complete cds.	2.6	<NONE>	<NONE>	<NONE>
4669	AC000043	Homo sapiens Chromosome 22q13 Cosmid Clone p74a8, complete sequence [Homo sapiens]	2e-016	134589	TRANSCRIPTION REGULATORY PROTEIN SNF2 SWI2) (REGULATORY PROTEIN GAM1) (TRANSCRIPTION FACTOR TYE3) >gi|101629|pir||S15047 SNF2 protein - yeast protein [Saccharomyces cerevisiae] >gi|172632 (M61703) SNF2protein [Saccharomyces cerevisiae] cerevisiae] >gi|127	1.5
4670	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	69700	interleukin-1 beta precursor - bovine	0.6
4671	U44975	Homo sapiens DNA-binding protein CPBP (CPBP) mRNA, partial cds	2e-045	1848233	(U44975) DNA-binding protein CPBP [Homo sapiens]	0.009

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4672	AF038406	Homo sapiens NADH dehydrogenase-ubiquinone Fe-S protein 8 23 kDa subunit (NDUFS8) gene, nuclear gene encoding mitochondrial protein, complete cds	0	2326168	(U32107) type VII collagen [Mus musculus]	1.5
4673	X67951	H.sapiens mRNA for proliferation-associated gene	0	548453	THIOREDOXIN PEROXIDASE 2 CELL ENHANCING FACTOR A) (NKEF-A) >gi|423025|pir||A46711 proliferation associated gene (pag) protein - human gene product [Homo sapiens]	2e-083
4674	AC001013	Homo sapiens (subclone 2_d1 from P1 H43) DNA sequence	2e-017	2072961	(U93568) putative p150 [Homo sapiens]	0.0001
4675	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	1589837	(U68729) cuticle preprocollagen [Meloidogyne incognita]	0.035
4676	M15353	Homo sapiens cap-binding protein mRNA, complete cds	0	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4677	M37583	Human histone (H2A.Z) mRNA, complete cds.	0	121994	HISTONE H2A.Z >gi|89608|pir||S03642 histone H2A.Z - bovine >gi|92380|pir||S03644 histone H2A.Z - rat >gi|106267|pir||A35881 histone H2A.Z - human sapiens] >gi|57808 (X52316) histone H2A.Z (AA 1-127) taurus] >gi|184060 (M37583) histone (H2A.Z) [Homo sapien	1e-055
4678	M15353	Homo sapiens cap-binding protein mRNA, complete cds	0	<NONE>	<NONE>	<NONE>
4679	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	4e-094	404764	(L10409) fork head related protein [Mus musculus]	4e-024
4680	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	4e-094	404764	(L10409) fork head related protein [Mus musculus]	4e-024
4681	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	4e-094	404764	(L10409) fork head related protein [Mus musculus]	4e-024
4682	L11707	Hevea brasiliensis Mn-superoxide dismutase (SODMn) gene, complete cds.	2.6	<NONE>	<NONE>	<NONE>
4683	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4684	<NONE>	<NONE>	<NONE>	2114323	(D88734) membrane glycoprotein [Equine herpesvirus 1]	0.052

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4685	AJ224875	Homo sapiens mRNA for putative glucosyltransferase, partial cds	0	2996578	(AJ224875) glucosyltransferase [Homo sapiens]	e-118
4686	AB019534	Homo sapiens gene for cathepsin L2, complete cds	2e-045	<NONE>	<NONE>	<NONE>
4687	J03799	Human colin carcinoma laminin-binding protein mRNA, complete cds.	e-166	34272	(X15005) pot. lamimin-binding protein (AA 1 - 300) [Homo sapiens]	5e-032
4688	<NONE>	<NONE>	<NONE>	2114323	(D88734) membrane glycoprotein [Equine herpesvirus 1]	0.052
4689	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	9e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	9.8
4690	D44598	Saccharomyces cerevisiae chromosome VI phage 4121	1e-009	3947877	(AL034382) putative mitosis and maintenance of ploidy protein [Schizosaccharomyces pombe]	6e-061
4691	AF053520	Homo sapiens allele 12 fragile site locus	0.61	<NONE>	<NONE>	<NONE>
4692	D16195	Mouse gene for acrogranin precursor, complete cds	0.059	<NONE>	<NONE>	<NONE>
4693	U90904	Human clone 23773 mRNA sequence	0	3130153	(AB008857) calcium2+ sensing receptor	1.5
4694	L22398	Homo sapiens DNA sequence, repeat region.	7e-017	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.1
4695	L22398	Homo sapiens DNA sequence, repeat region.	7e-017	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.1

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4696	J03746	Human glutathione S-transferase mRNA, complete cds.	e-170	121740	GLUTATHIONE S-TRANSFERASE, MICROSOMAL >gi|87562|pir||B28083 glutathione transferase glutathione S-transferase [Homo sapiens] >gi|1195483 sapiens] >gi|1621433 (U71213) microsomal glutathione s-transferase [Homo sapiens]	2e-038
4697	AF082283	Homo sapiens CARD-containing apoptotic signaling protein (BCL10) mRNA, complete cds	5e-046	4049460	(AJ006288) bcl-10 [Homo sapiens] signaling protein [Homo sapiens]	0.005
4698	D64142	Human mRNA for histone H1x, complete cds	1e-039	<NONE>	<NONE>	<NONE>
4699	AB001899	Homo sapiens PACE4 gene, exon 2	4e-012	3860844	(AJ235271) NADH DEHYDROGENASE I CHAIN L	3.5
4700	X16869	Human mRNA for elongation factor 1-alpha (clone CEF4)	0	1169475	ELONGATION FACTOR 1-ALPHA 1	6e-061
4701	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6.00E-05	<NONE>	<NONE>	<NONE>
4702	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	2501465	PROBABLE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAM (UBIQUITIN THIOLESTERAS	0.0003

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					E FAM)	
4703	D44598	Saccharomyces cerevisiae chromosome VI phage 4121	1e-009	3947877	(AL034382) putative mitosis and maintenance of ploidy protein [Schizosaccharomyces pombe]	6e-061
4704	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
4705	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.4
4706	AB001899	Homo sapiens PACE4 gene, exon 2	4e-012	3860844	(AJ235271) NADH DEHYDROGENASE I CHAIN L	3.4
4707	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4708	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-008	<NONE>	<NONE>	<NONE>
4709	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	6.40E+00
4710	L39064	Homo sapiens interleukin 9 receptor precursor (IL9R) gene, complete cds	1e-006	4063042	(AF068065) GP900; mucin-like glycoprotein	1e-006
4711	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.0002	331908	(K02714) envelope polyprotein [Friend murine leukemia virus]	8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4712	AF065249	Entodinium caudatum 14-3-3 protein mRNA, partial cds	1	<NONE>	<NONE>	<NONE>
4713	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	7.9
4714	<NONE>	<NONE>	<NONE>	186396	(M94131) mucin [Homo sapiens]	2.5
4715	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-009	<NONE>	<NONE>	<NONE>
4716	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4717	Z56314	H.sapiens CpG DNA, clone 10h10, reverse read cpg10h10.rt1a .	4e-012	2444024	(U77782) N-methyl-D-aspartate receptor 2C subunit precursor [Homo sapiens]	9.8
4718	D55696	Human mRNA for cysteine protease, complete cds	e-113	2842759	LEGUMAIN PRECURSOR (ASPARAGINYL ENDOPEPTIDASE) >gi|1743266|gnl|PID|e286211 (Y09862) legumain [Homo sapiens]	1e-006
4719	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	9e-008	<NONE>	<NONE>	<NONE>
4720	D63480	Human mRNA for KIAA0146 gene, partial cds	0	1469874	(D63480) The KIAA0146 gene product is novel. [Homo sapiens]	2e-079
4721	AB001579	Rice dwarf virus genomic RNA, segment 2, complete sequence	1.3	<NONE>	<NONE>	<NONE>
4722	<NONE>	<NONE>	<NONE>	3873550	(AL033534) serine-rich protein	2.7

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4723	AL010156	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-87, complete sequence	0.77	<NONE>	<NONE>	<NONE>
4724	AF059198	Homo sapiens protein kinase/endoribonulcease	2	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	8e-007
4725	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4727	D38616	Human mRNA for phosphorylase kinase alpha subunit, complete cds	3.5	3522948	(AC004411) hypothetical protein [Arabidopsis thaliana]	0.18
4728	D38616	Human mRNA for phosphorylase kinase alpha subunit, complete cds	3.5	3522948	(AC004411) hypothetical protein [Arabidopsis thaliana]	0.18
4729	Z11808	T.glis interphotoreceptor retinoid binding protein gene, exon 1	1.6	<NONE>	<NONE>	<NONE>
4730	AF065988	Homo sapiens keratocan gene, complete cds	1.4	<NONE>	<NONE>	<NONE>
4731	X60026	M.domesticus small nuclear 4.5 S RNA gene	0.0003	2853301	(AF007194) mucin [Homo sapiens]	5.5
4732	M13793	Mouse 56 kdal protein mRNA from an interferon activated gene, exon 1, 5' end.	0.3	136814	HYPOTHETICAL PROTEIN UL11 RL11 FAMILY [Human cytomegalovirus]	2.3

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4733	D55696	Human mRNA for cysteine protease, complete cds	e-113	2842759	LEGUMAIN PRECURSOR (ASPARAGINYL ENDOPEPTIDASE) >gi|1743266|gnl|PID|e286211 (Y09862) legumain [Homo sapiens]	1e-006
4734	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4735	<NONE>	<NONE>	<NONE>	322647	glycine-rich protein GRP22 - rape >gi|17821	3e-021
4736	<NONE>	<NONE>	<NONE>	188864	(M74027) mucin [Homo sapiens]	0.002
4737	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4738	AB018270	Homo sapiens mRNA for KIAA0727 protein, partial cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.8
4739	AB018270	Homo sapiens mRNA for KIAA0727 protein, partial cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.8
4740	AE001382	Plasmodium falciparum chromosome 2, section 19 of 73 of the complete sequence	0.25	<NONE>	<NONE>	<NONE>
4741	AE001382	Plasmodium falciparum chromosome 2, section 19 of 73 of the complete sequence	0.25	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4742	X55038	Mouse mCENP-B gene for centromere autoantigen B	0.001	3879362	(Z81113) similar to DnaJ, prokaryotic heat shock protein, Zinc finger, C2H2 type; cDNA EST yk290e12.5 comes from this gene; cDNA EST yk290e12.3 comes from this gene; cDNA EST yk447h4.5 comes from this gene; cDNA EST yk474e4....	7e-007
4743	AF054024	Rattus norvegicus polymorphic marker D9UIA2 sequence	0.62	<NONE>	<NONE>	<NONE>
4744	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
4745	Z11808	T.glis interphotoreceptor retinoid binding protein gene, exon 1	1.6	<NONE>	<NONE>	<NONE>
4746	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4747	AF047470	Homo sapiens malate dehydrogenase precursor complete cds	1e-019	2995307	(AL022268) putative aminotransferase	0.12
4748	AF029890	Homo sapiens hepatitis B virus X interacting protein (XIP) mRNA, complete cds	e-161	2745883	(AF029890) hepatitis B virus X interacting protein [Homo sapiens]	2e-044

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4750	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-008	1723019	HYPOTHETICAL 29.6 KD PROTEIN CY251.12C >gi|1405764|gnl|PID|e249453 (Z74410) hypothetical protein Rv0093c [Mycobacterium tuberculosis]	2.5
4751	M37583	Human histone (H2A.Z) mRNA, complete cds.	0	121994	HISTONE H2A.Z >gi|89608|pir||S03642 histone H2A.Z - bovine >gi|92380|pir||S03644 histone H2A.Z - rat >gi|106267|pir||A35881 histone H2A.Z - human sapiens] >gi|57808 (X52316) histone H2A.Z (AA 1-127) taurus] >gi|184060 (M37583) histone (H2A.Z) [Homo sapien	1e-055
4752	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	<NONE>	<NONE>	<NONE>
4753	X65279	pWE15 cosmid vector DNA	7e-079	987050	(X65335) lacZ gene product [unidentified cloning vector]	1e-013
4754	D38549	Human mRNA for KIAA0068 gene, partial cds	e-169	<NONE>	<NONE>	<NONE>
4755	L27835	Pangasianodon gigas growth hormone (GH) mRNA, complete cds.	1.5	538251	(D00322) polyprotein [Tomato black ring virus]	5.8

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4756	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	1477565	(U50078) p619 [Homo sapiens]	8.9
4757	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	1477565	(U50078) p619 [Homo sapiens]	8.9
4758	U47414	Human cyclin G2 mRNA, complete cds	e-116	<NONE>	<NONE>	<NONE>
4759	AB014560	Homo sapiens mRNA for KIAA0660 protein, complete cds	e-173	<NONE>	<NONE>	<NONE>
4760	L35664	Homo sapiens (subclone H8 8_f5 from P1 35 H5 C8) DNA sequence.	1e-030	2072966	(U93570) p40 [Homo sapiens]	0.001
4761	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.1
4762	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-013	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.1
4763	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
4764	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-012	<NONE>	<NONE>	<NONE>
4765	M59317	Mouse low affinity IgE receptor (FceRII) gene sequence.	1e-006	2135765	mucin 2 precursor, intestinal - human	0.0003

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4766	D14034	Human gene for Zn-alpha2-glycoprotein, complete cds	3e-008	119379	RETROVIRUS-RELATED ENV POLYPROTEIN	6e-007
4767	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4768	M61185	Bovine glutamic acid-rich protein mRNA, complete cds.	0.01	2781362	(AC003113) F24O1.18 [Arabidopsis thaliana]	1.1
4769	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4770	Z62012	H.sapiens CpG DNA, clone 61g4, reverse read cpg61g4.rt1a	0.076	1582765	YFW1 gene [Saccharomyces cerevisiae]	2.9
4771	M29065	Human hnRNP A2 protein mRNA.	0	4049652	(AF063866) ORF MSV017 hypothetical protein [Melanoplus sanguinipes entomopoxvirus]	5.9
4772	D12525	Homo sapiens cytochrome P450IA1 gene, 3'flanking region	6e-016	728837	!!!! ALU SUBFAMILY SQ WARNING ENTRY	9.6
4773	M16660	Human 90-kDa heat-shock protein gene, cDNA, complete cds.	e-109	2119731	HSP90 - mouse (fragment) protein {C-terminal} [mice, heart, Peptide Partial, 194 aa] [Mus sp.]	1e-023
4774	AF043105	Homo sapiens glutathione S-transferase mu 3	9e-020	728831	!!!! ALU SUBFAMILY J WARNING ENTRY	0.63
4775	U43374	Human normal keratinocyte mRNA.	0	120179	FINQ PROTEIN >gi|73172|pir||BV ECFQ finQ protein - Escherichia coli plasmid R820a	9
4776	U00684	Human unknown mRNA.	2e-014	2224667	(AB002361) KIAA0363 [Homo sapiens]	6.6

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4777	M22299	Human T-plastin polypeptide mRNA, complete cds, clone p4. > :: gb|I08151| Sequence 1 from Patent EP 0345726	4e-008	<NONE>	<NONE>	<NONE>
4778	M95623	Homo sapiens hydroxymethylbilane synthase gene, complete cds.	3e-018	3002527	(AF010144) neuronal thread protein AD7c-NTP [Homo sapiens]	0.52
4779	X52329	pBluescript II KS(-) vector DNA, phagemid excised from lambda ZAPII	0	2117615	catalase - Campylobacter jejuni	2e-009
4780	X52329	pBluescript II KS(-) vector DNA, phagemid excised from lambda ZAPII	0	2117615	catalase - Campylobacter jejuni	2e-009
4781	AF061034	Homo sapiens FIP2 alternatively translated mRNA, complete cds	0	3127084	(AF061034) FIP2 [Homo sapiens]	9e-089
4782	Z64776	H.sapiens CpG DNA, clone 167d8, forward read cpg167d8.ft1b .	0.0002	1777782	(U52513) ISG family member [Homo sapiens]	1.8
4783	D31786	Acyrthosiphon kondoi endosymbiont DNA, S10 and spc ribosomal protein gene operons, complete and partial cds	1.1	2134310	cell division control protein CDC37 homolog splice form 1 - chicken	4e-005
4784	L05491	Homo sapiens T-plastin gene, last exon (16).	0	2506254	T-PLASTIN	3e-018
4785	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4786	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-006	3877438	(Z72510) similar to G-protein coupled receptor [Caenorhabditis elegans]	2
4787	L38250	Mycoplasma penetrans p35 lipoprotein and p33 lipoprotein genes, complete cds	0.041	<NONE>	<NONE>	<NONE>
4788	J03537	Human ribosomal protein S6 mRNA, complete cds.	e-138	133978	40S RIBOSOMAL PROTEIN S6 protein S6 - rat >gi|70933|pir||R3 MS6 ribosomal protein S6 - mouse >gi|319910|pir||R3 HU6 ribosomal protein S6 - human >gi|36148 (X67309) ribosomal protein S6 [Homo sapiens] >gi|54010 (Y00348) ribosomal protein S6 [Mus musculus] >g	3e-033
4789	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	2.6
4790	AF041210	Homo sapiens midline 1 fetal kidney isoform 3	0.41	<NONE>	<NONE>	<NONE>
4791	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.2

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4792	S60885	LYAR=cell growth regulating nucleolar protein	2e-026	2498524	CELL GROWTH REGULATING NUCLEOLAR PROTEIN >gi|423488|pir||A40683 cell growth regulating nucleolar protein LYAR - mouse >gi|300372|bbs|131782	0.43
4793	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4794	U28687	Human zinc finger containing protein ZNF157	3e-027	1731444	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2) >gi|1020145 (M27878) DNA binding protein	3e-008
4795	AF086438	Homo sapiens full length insert cDNA clone ZD80G11	0.0002	<NONE>	<NONE>	<NONE>
4796	L28997	Homo sapiens ARL1 mRNA, complete cds	3e-006	<NONE>	<NONE>	<NONE>
4797	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-008	1280126	(U55375) K03E6.4 [Caenorhabditis elegans]	2e-012
4798	AE001415	Plasmodium falciparum chromosome 2, section 52 of 73 of the complete sequence	0.015	<NONE>	<NONE>	<NONE>
4799	D21853	Human mRNA for KIAA0111 gene, complete cds	0	729821	EUKARYOTIC INITIATION FACTOR 4A-LIKE NUK-34 (HA0659) >gi|631472|pir||S45142 translation initiation factor eIF-4A2 homolog - human >gi|496902	2e-010

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4800	M76425	H.sapiens intron 2 Alu repetitive element.	0.014	<NONE>	<NONE>	<NONE>
4801	X87212	H.sapiens mRNA for cathepsin C	0	1582221	prepro-cathepsin C [Homo sapiens]	1e-052
4802	D80005	Human mRNA for KIAA0183 gene, partial cds	e-114	1136426	(D80005) KIAA0183 [Homo sapiens]	7e-025
4803	AF026029	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds	2e-055	<NONE>	<NONE>	<NONE>
4804	Z68322	Human DNA sequence from cosmid L79F5, Huntington's Disease Region, chromosome 4p16.3	2e-016	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.6
4805	M63180	Human threonyl-tRNA synthetase mRNA, complete cds	0	135177	THREONYL-TRNA SYNTHETASE, CYTOPLASMIC (THREONINE--TRNA LIGASE) (THRRS) 6.1.1.3) - human >gi|1464742 (M63180) threonyl-tRNA synthetase [Homo sapiens]	5e-070
4806	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3.7	<NONE>	<NONE>	<NONE>
4807	D16431	Human mRNA for hepatoma-derived growth factor, complete cds	3e-010	<NONE>	<NONE>	<NONE>
4808	AF086168	Homo sapiens full length insert cDNA clone ZB82D09	e-148	1465826	(U64856) weak similarity to TPR domains [Caenorhabditis elegans]	2e-014

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4809	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.4
4810	M34651	Pseudorabies virus with upstream and downsteam sequences.	0.4	417134	HEPATOCYTE NUCLEAR FACTOR 3-BETA norvegicus]	0.047
4811	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	3e-010	1353390	(U34998) Rad9 [Coprinus cinereus]	3e-010
4812	M94314	Homo sapiens ribosomal protein L30 mRNA, complete cds	1e-064	<NONE>	<NONE>	<NONE>
4813	X95276	P.falciparum complete gene map of plastid-like DNA (IR-B)	0.001	<NONE>	<NONE>	<NONE>
4814	X12716	Human Retrovirus mRNA for LTR (clone cH6)	5e-024	<NONE>	<NONE>	<NONE>
4815	J03537	Human ribosomal protein S6 mRNA, complete cds.	e-138	133978	40S RIBOSOMAL PROTEIN S6 protein S6 - rat >gi|70933|pir||R3 MS6 ribosomal protein S6 - mouse >gi|319910|pir||R3 HU6 ribosomal protein S6 - human >gi|36148 (X67309) ribosomal protein S6 [Homo sapiens] >gi|54010 (Y00348) ribosomal protein S6 [Mus musculus] >g	3e-033
4816	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4817	U61945	Caenorhabditis elegans cosmid C49C8.	1.8	<NONE>	<NONE>	<NONE>
4818	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4819	M20020	Human ribosomal protein S6 mRNA, complete cds.	7e-072	225901	ribosomal protein S6 [Rattus norvegicus]	2e-015
4820	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.058	<NONE>	<NONE>	<NONE>
4821	AL023973	Human DNA sequence from clone 1033E15 on chromosome 22q13.1-13.2. Contains part of a novel gene, ESTs and a GSS, complete sequence [Homo sapiens]	3e-009	2352260	(AF000949) keratin [Canis familiaris]	0.037
4822	M37430	Pea Chloroplast 4.5S, 5S, 16S and 23S mRNA.	4.7	4093193	(AF106583) unknown [Caenorhabditis elegans]	4.8
4823	M63488	Human replication protein A 70kDa subunit mRNA complete cds.	0	1350579	REPLICATION PROTEIN A 70 KD DNA-BINDING SUBUNIT (RP-A) (RF-A) (REPLICATION FACTOR-A PROTEIN 1) (SINGLE-STRANDED DNA-BINDING PROTEIN) subunit [Homo sapiens]	8e-079
4824	X83791	C.tentans BR1 gene	1.2	<NONE>	<NONE>	<NONE>
4825	U67576	Methanococcus jannaschii section 118 of 150 of the complete genome	4	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4826	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-009	<NONE>	<NONE>	<NONE>
4827	X65319	Cloning vector pCAT-Enhancer	2e-077	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-011
4828	X03558	Human mRNA for elongation factor 1 alpha subunit	0	1169475	ELONGATION FACTOR 1-ALPHA 1	e-109
4829	X76538	H.sapiens Mpv17 mRNA	6.00E-98	730059	MPV17 PROTEIN >gi|631208|pir||S45343 glomerulosclerosis protein Mpv17 - human	3e-010
4830	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4831	<NONE>	<NONE>	<NONE>	2078483	(U43200) antifreeze glycopeptide AFGP polyprotein precursor [Boreogadus saida]	0.014
4832	X83617	H.sapiens mRNA for RanBP1	3.4	3924670	(AC004990) supported by Genscan and several ESTs: C83049	3e-040
4833	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	3024677	ISOLEUCYL-TRNA SYNTHETASE isoleucyl-tRNA synthetase (ileS) [Helicobacter pylori]	0.005
4834	J02763	Human calcyclin gene, complete cds.	1e-043	<NONE>	<NONE>	<NONE>
4835	L10910	Homo sapiens splicing factor (CC1.3) mRNA, complete cds.	0.00E+00	<NONE>	<NONE>	<NONE>
4836	X53586	Human mRNA for integrin alpha 6	2e-099	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4837	Z57594	H.sapiens CpG DNA, clone 186c5, reverse read cpg186c5.rt1b .	1.4	<NONE>	<NONE>	<NONE>
4838	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4839	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
4840	Y00371	Human hsc70 gene for 71 kd heat shock cognate protein > :: gb|AR013986|AR 013986 Sequence 15 from patent US 5773245	e-145	987050	(X65335) lacZ gene product [unidentified cloning vector]	7e-011
4841	AF074991	Homo sapiens full length insert cDNA YH88A03	0.0005	<NONE>	<NONE>	<NONE>
4842	AF055030	Homo sapiens clone 24538 mRNA sequence	2e-049	2842711	ZINC-FINGER PROTEIN UBI-D4 sapiens]	2e-016
4843	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	1353531	(U38906) ORF14 [Bacteriophage r1t]	7.1
4844	Z57588	H.sapiens CpG DNA, clone 186b7, reverse read cpg186b7.rt1b .	0.41	<NONE>	<NONE>	<NONE>
4845	X65319	Cloning vector pCAT-Enhancer	9e-051	987050	(X65335) lacZ gene product [unidentified cloning vector]	0.37
4846	X78411	B.pasteurii ureA, ureB and ureC genes.	3.1	<NONE>	<NONE>	<NONE>
4847	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-009	2224697	(AB002376) KIAA0378 [Homo sapiens]	5e-008

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4848	U78729	Homo sapiens mad protein homolog Smad2 gene, exon 6	4.7	<NONE>	<NONE>	<NONE>
4849	D55696	Human mRNA for cysteine protease, complete cds	0	2842759	LEGUMAIN PRECURSOR (ASPARAGINYL ENDOPEPTIDASE) >gi|1743266|gnl|PID|e286211 (Y09862) legumain [Homo sapiens]	3e-030
4850	U95097	Xenopus laevis mitotic phosphoprotein 43 mRNA, partial cds	0.43	3005603	(AF053141) progesterone receptor [Equus caballus]	2.2
4851	U46118	Rattus norvegicus cytochrome P450 3A9 mRNA, complete cds	0.38	<NONE>	<NONE>	<NONE>
4852	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-006	2495726	HYPOTHETICAL PROTEIN KIAA0254 sapiens]	1e-005
4853	L10911	Homo sapiens splicing factor (CC1.4) mRNA, complete cds.	e-117	<NONE>	<NONE>	<NONE>
4854	D00132	Acremonium chrysogenum ARS DNA fragment	1.7	130998	SALIVARY PROLINE-RICH PROTEIN PRECURSOR (CLONE CP7) [CONTAINS: BASIC PEPTIDE P-F] glycoprotein precursor PRB2 - human (fragment) precursor [Homo sapiens]	0.45
4855	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4856	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4857	AC002186	Homo sapiens (subclone 1_f12 from P1 H115) DNA sequence	1e-041	2072966	(U93570) p40 [Homo sapiens]	4e-013
4858	AF053520	Homo sapiens allele 12 fragile site locus	0.61	<NONE>	<NONE>	<NONE>
4859	X65319	Cloning vector pCAT-Enhancer	2e-077	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-011
4860	AJ005866	Homo sapiens mRNA for putative Sqv-7-like protein, partial	e-179	4008517	(AJ005866) Sqv-7-like protein [Homo sapiens]	3e-049
4861	AF052165	Homo sapiens clone 24522 mRNA sequence	4e-072	2065177	(Y12790) Supt5h protein [Homo sapiens] sapiens]	1e-021
4862	M90058	Human serglycin gene, exons 1,2, and 3.	0.005	<NONE>	<NONE>	<NONE>
4863	U17662	Human neurofibromatosis 1 (NF1) gene, exons 4c and 5 and partial cds	1.3	<NONE>	<NONE>	<NONE>
4864	U64453	Human ELK1 pseudogene (ELK2) and immunoglobulin heavy chain gamma pseudogene (IGHGP)	3e-018	<NONE>	<NONE>	<NONE>
4865	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4866	X16826	Drosophila melanogaster DNA for 60C beta tubulin gene making beta 3 tubulin isoform	2.2	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4867	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-009	<NONE>	<NONE>	<NONE>
4868	X65319	Cloning vector pCAT-Enhancer	8e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4869	AL031322	S.pombe chromosome II cosmid c17D1	0.38	<NONE>	<NONE>	<NONE>
4870	M11560	Human aldolase A mRNA, complete cds.	0	553861	(J05517) aldolase A [Mus musculus]	2e-066
4871	U28831	Human protein immuno-reactive with anti-PTH polyclonal antibodies mRNA, partial cds. > :: gb|I40055|I40055 Sequence 1 from patent US 5618695	e-106	896065	(U28831) protein that is immuno-reactive with anti-PTH polyclonal antibodies [Homo sapiens]	1e-014
4872	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
4873	<NONE>	<NONE>	<NONE>	107112	mucin, tracheal (AMN-22) - human (fragment)	4e-009
4874	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>
4875	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4876	D85752	Enterococcus faecalis plasmid pPD1 bacA, bacB, bacC, bacD, bacE, bacF, bacG, bacH and bacI genes, complete cds	0.042	1123087	(U42436) C49H3.3 gene product [Caenorhabditis elegans]	0.001
4877	AC001443	Homo sapiens (subclone 2_f10 from BAC 2913	1e-033	2072961	(U93568) putative p150 [Homo sapiens]	3e-007
4878	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-012	<NONE>	<NONE>	<NONE>
4879	S81433	heme oxygenase-2 {5' region, alternative splicing}	4.2	<NONE>	<NONE>	<NONE>
4880	M34312	S.cerevisiae telomeric sequence DNA, clone YLP108CA-4-ii.	5e-010	188864	(M74027) mucin [Homo sapiens]	2e-007
4881	AF075079	Homo sapiens full length insert cDNA YQ80A08	1.00E-12	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	4.6
4882	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.015	3176689	(AC003671) Contains similarity to ubiquitin carboxyl-terminal hydrolase 14 gb|Z35927 from S. cerevisiae. [Arabidopsis thaliana]	4.5
4883	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.12	<NONE>	<NONE>	<NONE>
4884	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4885	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
4886	U74586	Rattus norvegicus double-stranded RNA specific adenosine deaminase (RED2) mRNA, complete cds	3.5	2828280	(AL021687) putative protein [Arabidopsis thaliana] >gi|2832633|gnl|PID|e1249651 (AL021711) putative protein [Arabidopsis thaliana]	4e-008
4887	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	5e-014	2497599	LAMININ BETA-2 CHAIN PRECURSOR	5.4
4888	D78572	House mouse; Musculus domesticus mRNA for membrane glycoprotein, complete cds > :: dbj|E12950|E12950 cDNA GA3-43 encoding novel polypeptide which appear when differentiate from embryo-tumor cell P19 to nerve cell	7e-017	1545807	(D78572) membrane glycoprotein [Mus musculus]	1.2
4889	L07273	Rattus norvegicus carboxypeptidase E (CPE) gene, exon 1.	3.2	<NONE>	<NONE>	<NONE>
4890	Z46629	Homo sapiens SOX9 mRNA. > :: gb|G28593|G28593 human STS SHGC-35378.	e-132	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4891	M30802	Human aromatase cytochrome P-450 gene, exon 8.	3.3	<NONE>	<NONE>	<NONE>
4892	M28699	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds.	5e-088	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.2
4893	M89955	Human 5-HT1D-type serotonin receptor gene, complete cds.	0	2494923	5-HYDROXYTRYPTAMINE 1D RECEPTOR 1D [Cavia porcellus]	3e-008
4894	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
4895	AF004230	Homo sapiens monocyte/macrophage Ig-related receptor MIR-7 (MIR cl-7) mRNA, complete cds	2e-012	<NONE>	<NONE>	<NONE>
4896	D50463	Mouse SDR1 mRNA, complete cds	0	1806276	(X99337) glycoprotein 55 [Rattus norvegicus]	e-103
4897	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4898	AB014597	Homo sapiens mRNA for KIAA0697 protein, partial cds	2e-067	3327208	(AB014597) KIAA0697 protein [Homo sapiens]	9e-051
4899	AF047598	Homo sapiens origin recognition complex subunit 4 (ORC4L) mRNA, complete cds	e-110	2736149	(AF022108) putative replication initiator origin recognition complex subunit Orc4Lp [Homo sapiens] subunit 4; Orc4p [Homo sapiens]	7e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4900	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
4901	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
4902	U22325	Mus musculus faciogenital dysplasis (Fgd1) mRNA, complete cds.	1.20E+00	<NONE>	<NONE>	<NONE>
4903	U22325	Mus musculus faciogenital dysplasis (Fgd1) mRNA, complete cds.	1.20E+00	<NONE>	<NONE>	<NONE>
4904	U22325	Mus musculus faciogenital dysplasis (Fgd1) mRNA, complete cds.	1.20E+00	<NONE>	<NONE>	<NONE>
4905	U26162	Human myosin regulatory light chain mRNA, complete cds.	0	228542	myosin:SUBUNIT =regulatory light chain	3e-068
4906	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4907	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	3822225	(AF079183) RING-H2 finger protein RHG1a [Arabidopsis thaliana]	4e-006
4908	X65319	Cloning vector pCAT-Enhancer	1e-075	987050	(X65335) lacZ gene product [unidentified cloning vector]	8e-019
4909	AJ010475	Arabidopsis thaliana mRNA for DEAD box RNA helicase, RH28	0.62	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
4910	U48364	Mus musculus muscle-specific transcriptional activator alpha-NAC gp220 (Naca) mRNA, complete cds	0.2	<NONE>	<NONE>	<NONE>
4911	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4912	J03750	Mouse single stranded DNA binding protein p9 mRNA, complete cds.	e-135	1709514	ACTIVATED RNA POLYMERASE II TRANSCRIPTIONAL COACTIVATOR P15 (PC4) (P14) cofactor p15 - human >gi|531395 (U12979) PC4 [Homo sapiens] >gi|619161 (X79805) PC4, p15 [Homo sapiens]	1e-020
4913	U70263	Border disease virus strain BD31, complete genome	3.2	<NONE>	<NONE>	<NONE>
4914	AB012086	Canine herpesvirus gene for immediate-early protein, complete cds	0.37	<NONE>	<NONE>	<NONE>
4915	X05908	Human mRNA for lipocortin	e-162	113944	ANNEXIN I (LIPOCORTIN I) (CALPACTIN II) (CHROMOBINDIN 9) (P35) (PHOSPHOLIPASE A2 INHIBITORY PROTEIN) >gi|71756|pir||LUHU annexin I - human >gi|34388	9e-041
4916	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4917	U90911	Human clone 23652 mRNA sequence	0.13	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4918	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	8e-007	<NONE>	<NONE>	<NONE>
4919	X57830	H.sapiens serotonin 5-HT2 receptor mRNA > :: gb|G28536|G28536 human STS SHGC-31576.	4e-011	<NONE>	<NONE>	<NONE>
4920	U67559	Methanococcus jannaschii section 101 of 150 of the complete genome	3.5	<NONE>	<NONE>	<NONE>
4921	M20020	Human ribosomal protein S6 mRNA, complete cds.	0	133978	40S RIBOSOMAL PROTEIN S6 protein S6 - rat >gi|70933|pir||R3 MS6 ribosomal protein S6 - mouse >gi|319910|pir||R3 HU6 ribosomal protein S6 - human >gi|36148 (X67309) ribosomal protein S6 [Homo sapiens] >gi|54010 (Y00348) ribosomal protein S6 [Mus musculus] >g	2e-072
4922	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
4923	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	6e-006	<NONE>	<NONE>	<NONE>
4924	X76683	Plasmid vector pHM2 betalactamase gene	e-160	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4925	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4926	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	0.002	<NONE>	<NONE>	<NONE>
4927	D50369	Homo sapiens mRNA for low molecular mass ubiquinone-binding protein, complete cds	e-152	3024781	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX UBIQUINONE-BINDING PROTEIN QP-C PROTEIN) (COMPLEX III SUBUNIT VII) >gi|2605590 (D50369) low molecular mass ubiquinone-binding protein [Homo sapiens]	6e-023
4928	M63391	Human desmin gene, complete cds.	4e-013	<NONE>	<NONE>	<NONE>
4929	D38417	Mouse mRNA for arylhydrocarbon receptor, complete cds	e-110	<NONE>	<NONE>	<NONE>
4930	U38253	Rattus norvegicus initiation factor eIF-2B gamma subunit (eIF-2B gamma) mRNA, complete cds	e-175	2494312	TRANSLATION INITIATION FACTOR EIF-2B GAMMA SUBUNIT (EIF-2B GDP-GTP EXCHANGE FACTOR) subunit [Rattus norvegicus]	4e-040
4931	D38417	Mouse mRNA for arylhydrocarbon receptor, complete cds	e-110	<NONE>	<NONE>	<NONE>
4932	U50767	Mus musculus alpha 1 type I collagen gene, partial cds and 3' flanking region.	1.2	<NONE>	<NONE>	<NONE>
4933	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4934	U86137	Mus musculus telomerase protein-1 mRNA, complete cds	1.70E-01	3327208	(AB014597) KIAA0697 protein [Homo sapiens]	9e-006
4935	S57980	Crp1=cystatin-related protein-1 [rats, Genomic, 7673 nt]	0.041	<NONE>	<NONE>	<NONE>
4936	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4937	AB012047	Arabidopsis thaliana gene for sulfate transporter, complete cds, clone:AST56	0.14	3915658	ATP-DEPENDENT RNA HELICASE A helicase II [Homo sapiens]	6.1
4938	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4939	AB018374	Mus musculus GARP34 mRNA, complete cds	3e-037	<NONE>	<NONE>	<NONE>
4940	AF001498	Campylobacter jejuni polysaccharide biosynthesis protein homolog gene, partial cds, galactosyl transferase homolog, UDP-galactose phosphate transferase homolog, acetyl transferase homolog and aminotransferase homolog gen...	3e-005	<NONE>	<NONE>	<NONE>
4941	J04617	Human elongation factor EF-1-alpha gene, complete cds. > :: dbj|E02629|E02629 DNA of human polypeptide chain elongation factor-	3e-090	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
		1 alpha				
4942	Z54349	H.sapiens MN/CA9 GENE	2e-007	<NONE>	<NONE>	<NONE>
4943	AF077374	Homo sapiens small proline-rich protein (SPRR3) gene, exons 1, 2, and 3 and complete cds	1.3	<NONE>	<NONE>	<NONE>
4944	X59828	Human chromosome 22 flanking hypervariable simple repeat DNA (clone HZREP42)	0.0003	<NONE>	<NONE>	<NONE>
4945	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-09	124180	TRANSCRIPTIONAL REGULATOR IE63 human herpesvirus 1 (strain 17) herpesvirus 1] >gi|221713 (D00374) immediate early transcriptional modulating protein IE63 (gene UL54) herpesvirus 1]	5.8
4946	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.00E-09	124180	TRANSCRIPTIONAL REGULATOR IE63 human herpesvirus 1 (strain 17) herpesvirus 1] >gi|221713 (D00374) immediate early transcriptional	5.8

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
					modulating protein IE63 (gene UL54) herpesvirus 1]	
4947	X76683	Plasmid vector pHM2 betalactamase gene	8e-092	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
4948	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4949	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-04	<NONE>	<NONE>	<NONE>
4950	X16972	Drosophila melanogaster cecropin gene cluster	1.20E-01	1362688	morphogen Xhh precursor - African clawed frog >gi|790938 (L39213) morphogen [Xenopus laevis]	1.9
4951	U12022	Human calmodulin (CALM1) gene, exons 2,3,4,5 and 6, and complete cds	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
4952	X56536	Rabbit mRNA for pH regulatory protein (Na+/H+ exchanger), partial	2.3	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	4e-018

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4953	AF037438	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase (SCHAD) gene, complete cds	2e-006	<NONE>	<NONE>	<NONE>
4954	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	4e-012	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	3.4
4955	AB000467	Homo sapiens mRNA, partial cds, clone:RES4-25	2e-012	<NONE>	<NONE>	<NONE>
4956	U31525	Human glycogenin mRNA, complete cds	0	1707996	GLYCOGENIN >gi|2135280|pir||JC4695 glycogenin glucosyltransferase (EC 2.4.1.186) - human	5e-042
4957	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4958	AF003836	Mesocricetus auratus isopentenyl diphosphate:dimethylallyl diphosphate isomerase mRNA, complete cds	1.30E+00	<NONE>	<NONE>	<NONE>
4959	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4960	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4961	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.90E-02	<NONE>	<NONE>	<NONE>
4962	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4.90E-02	<NONE>	<NONE>	<NONE>
4963	L32537	Homo sapiens (clone XP6G6B) mRNA, partial EST.	5.00E-03	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4964	L32537	Homo sapiens (clone XP6G6B) mRNA, partial EST.	5.00E-03	<NONE>	<NONE>	<NONE>
4965	X63787	T.thermophila gene for snRNA U3-2	0.41	<NONE>	<NONE>	<NONE>
4966	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4967	U27341	Bos taurus endothelin converting enzyme-2 Sequence 1 from patent US 5736376	7e-015	<NONE>	<NONE>	<NONE>
4968	U35114	Human apolipoprotein E (APOE) gene, hepatic control region HCR-2	9e-005	<NONE>	<NONE>	<NONE>
4969	M86374	Rat tropoelastin gene, intron 25 (partial).	0.13	<NONE>	<NONE>	<NONE>
4970	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4971	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4972	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	<NONE>	<NONE>	<NONE>
4973	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7.00E-07	<NONE>	<NONE>	<NONE>
4974	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7.00E-07	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4975	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	7.00E-07	<NONE>	<NONE>	<NONE>
4976	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	2995290	(AL022268) putative transmembrane transport protein [Streptomyces coelicolor]	1.50E-02
4977	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	2995290	(AL022268) putative transmembrane transport protein [Streptomyces coelicolor]	1.50E-02
4978	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.005	2995290	(AL022268) putative transmembrane transport protein [Streptomyces coelicolor]	1.50E-02
4979	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2.00E-05	2983512	(AE000718) putative protein [Aquifex aeolicus]	2.2
4980	X56536	Rabbit mRNA for pH regulatory protein (Na+/H+ exchanger), partial	2.3	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi|1334880 (V01555) BKRF1 encodes EBNA-1 protein, latent cycle gene. [Human herpesvirus 4]	4e-018
4981	Z11508	A.thaliana rpl15 gene for plastid ribosomal protein CL15	5.00E-03	3283910	(AF070638) unknown [Homo sapiens]	2.5
4982	X95834	H.sapiens DNA sequence surrounding NotI site, clone NRLA143D	7e-070	1588365	signal peptidase:SUBUNIT=12kD [Homo sapiens]	1e-043.

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4983	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	2e-007	4008081	(AF106835) putative DnaJ [Methylovorus sp. strain SS1]	3e-010
4984	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4985	U43626	Human chromosome 15q11-q13 putative DNA replication origin in the g-aminobutyric acid receptor b3 and a5 gene cluster	2e-018	2197085	(AF003535) ORF2-like protein [Homo sapiens]	0.0002
4986	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4987	D21272	Rice mRNA for ADP-glucose pyrophosphorylase	1.1	1708084	EXOGLUCANASE B PRECURSOR 1,4-beta-cellobiosidase (EC 3.2.1.91) precursor - Cellulomonas fimi >gi|790698 (L38827) beta-1,4-cellobiohydrolase [Cellulomonas fimi]	5.8
4988	U59706	Gallus gallus alternatively spliced AMPA glutamate receptor, isoform GluR2 flop, (GluR2) mRNA, partial cds.	0.015	<NONE>	<NONE>	<NONE>
4989	AF086033	Homo sapiens full length insert cDNA clone YW26E09	e-174	<NONE>	<NONE>	<NONE>
4990	L31840	Rattus norvegicus nuclear pore complex protein NUP107 mRNA, complete cds.	e-179	1709212	NUCLEAR PORE COMPLEX PROTEIN NUP107	2e-083

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4991	AF052144	Homo sapiens clone 24573 and 24786 mRNA sequences	e-170	1174415	SPIDROIN 2 (DRAGLINE SILK FIBROIN 2) >gi|345426|pir||A44112 spidroin 2, dragline silk fibroin - orb spider (Nephila clavipes) (fragment) clavipes]	4.8
4992	M22406	Human intestinal mucin mRNA, partial cds, clone SMUC 42.	0.085	188864	(M74027) mucin [Homo sapiens]	1e-009
4993	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
4994	U24697	Chironomus samoensis nanos homolog (Cs nos) gene, complete cds.	0.13	3880999	(AL021492) Y45F10D.11 [Caenorhabditis elegans]	7e-022
4995	M64716	Human ribosomal protein S25 mRNA, complete cds.	4e-074	2943738	(AB011550) Drosophila Policomblike-related gene containing PHD fingers. [Mus musculus]	4e-011
4996	X54326	H.sapiens mRNA for glutaminyl-tRNA synthetase	0	135104	MULTIFUNCTIONAL AMINOACYL-TRNA SYNTHETASE (CONTAINS: GLUTAMYL-TRNA SYNTHETASE glutamyl-prolyl-tRNA synthetase - human >gi|31958	1e-088
4997	Z12112	pWE15A cosmid vector DNA	2e-028	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-007
4998	Z62939	H.sapiens CpG DNA, clone 75f1, forward read cpg75f1.ft1b .	3e-010	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
4999	<NONE>	<NONE>	<NONE>	2134574	mucin - rhesus macaque (fragment) >gi|437055	5e-005
5000	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	9e-009	<NONE>	<NONE>	<NONE>
5001	Z93950	H.sapiens DNA; chromosome Y repeat regions	0.15	<NONE>	<NONE>	<NONE>
5002	X64037	H.sapiens mRNA for RNA polymerase II associated protein RAP74	5e-056	<NONE>	<NONE>	<NONE>
5003	M37583	Human histone (H2A.Z) mRNA, complete cds.	e-132	121994	HISTONE H2A.Z >gi|89608|pir||S03 642 histone H2A.Z - bovine >gi|92380|pir||S03 644 histone H2A.Z - rat >gi|106267|pir||A3 5881 histone H2A.Z - human sapiens] >gi|57808 (X52316) histone H2A.Z (AA 1-127) taurus] >gi|184060 (M37583) histone (H2A.Z) [Homo sapien	2e-044
5004	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	<NONE>	<NONE>	<NONE>
5005	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	4e-011	<NONE>	<NONE>	<NONE>
5006	M94764	Glycine max cv. Dare nodulin 26 gene fragment.	0.043	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
5007	Z34287	B.subtilis (SO113) genomic DNA (5425bp)	1.2	<NONE>	<NONE>	<NONE>
5008	X76683	Plasmid vector pHM2 betalactamase gene	6e-078	987050	(X65335) lacZ gene product [unidentified cloning vector]	2e-014
5009	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	e-109	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi|407339|gnl|PID|d1005029 (D17577) Kif1b [Mus musculus]	9e-041
5010	X91192	H.sapiens PLC beta 3 gene (exon 1) and SOM172 gene (exon 1)	1e-096	3294231	(AJ223970) mono-methyl transferase	3
5011	D88271	Human (lambda) DNA for immunogloblin light chain	1e-021	<NONE>	<NONE>	<NONE>
5012	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5013	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5014	AF052133	Homo sapiens clone 23970 mRNA sequence	0	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.9
5015	M21731	Human lipocortin-V mRNA, complete cds.	e-169	999934	Annexin V (Lipocortin V, Endonexin Ii, Placental Anticoagulant Protein) Mutant With Glu 17 Replaced By Gly, Glu 78 Replaced By Gln (E17g,E78q) Complexed With Calcium	4e-005

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5016	M21731	Human lipocortin-V mRNA, complete cds.	e-169	999934	Annexin V (Lipocortin V, Endonexin Ii, Placental Anticoagulant Protein) Mutant With Glu 17 Replaced By Gly, Glu 78 Replaced By Gln (E17g,E78q) Complexed With Calcium	4e-005
5017	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5018	L44118	Homo sapiens proximal CMT1A-REP repeat	0.0005	<NONE>	<NONE>	<NONE>
5019	Y16849	Bacillus sp. D3 xynA and abfA genes and ORF1	2e-015	<NONE>	<NONE>	<NONE>
5020	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	465975	PUTATIVE ATP-DEPENDENT RNA HELICASE T26G10.1 IN CHROMOSOME III >gi|482102|pir||S40731 ATP-dependent RNA helicase homolog T26G10.1 - Caenorhabditis elegans >gi|3880293|gnl|PID|e1349766 1397-1495 which introduced stop codon at 3' splice; 5' splice looks v.	9e-005
5021	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5022	U02455	Cloning vector rpDR2, complete sequence.	0.35	2132302	hypothetical protein YPR144c - yeast similarity near C-terminus to RNA Polymerase beta subunit (Swiss Prot. accession number P11213) and CCAAT-binding transcription factor (PIR accession number A36368) [Saccharomyces cerevisiae]	1e-031
5023	X97999	H.sapiens mRNA for transcription factor IID, subunit TAFII55	0	3024690	TRANSCRIPTIO N INITIATION FACTOR TFIID 55 KD SUBUNIT (TAFII-55) (TAFII55) factor IID [Homo sapiens]	4e-083
5024	X71642	M.musculus GEG-154 mRNA	3e-092	<NONE>	<NONE>	<NONE>
5025	X71642	M.musculus GEG-154 mRNA	3e-092	<NONE>	<NONE>	<NONE>
5026	AB018270	Homo sapiens mRNA for KIAA0727 protein, partial cds	4e-061	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	7.6
5027	D90086	Human pyruvate dehydrogenase (EC 1.2.4.1) beta subunit gene, exons 1-10	4e-011	2143936	probable regulatory protein 322 - rat	7.7
5028	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.002	<NONE>	<NONE>	<NONE>
5029	X65319	Cloning vector pCAT-Enhancer	2e-081	987050	(X65335) lacZ gene product [unidentified cloning vector]	3e-015
5030	<NONE>	<NONE>	<NONE>	188864	(M74027) mucin [Homo sapiens]	0.001

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5031	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	0.0002	3258141	(AP000007) 138aa long hypothetical protein [Pyrococcus horikoshii]	9.6
5032	X98001	H.sapiens mRNA for geranylgeranyl transferase II	e-129	2506788	GERANYLGERANYL TRANSFERASE TYPE II BETA SUBUNIT (RAB GERANYLGERANYLTRANSFERASE BETA SUBUNIT) (RAB GERANYL-GERANYLTRANSFERASE BETA SUBUNIT) transferase II [Homo sapiens]	3e-026
5033	U72789	Human cosmid U197H5, complete sequence [Homo sapiens]	5e-023	<NONE>	<NONE>	<NONE>
5034	U72789	Human cosmid U197H5, complete sequence [Homo sapiens]	5e-023	<NONE>	<NONE>	<NONE>
5035	U19239	Choristoneura fumiferana entomopoxvirus spheroidin gene, complete cds, G4R gene, partial cds, and nucleoside triphosphate phosphohydrolase (NPH I) gene, partial cds	3.8	<NONE>	<NONE>	<NONE>
5036	U95098	Xenopus laevis mitotic phosphoprotein 44 mRNA, partial cds	8e-009	2690166	(AE000788) B. burgdorferi predicted coding region BBK23	4

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5037	U66871	Human enhancer of rudimentary homolog mRNA, complete cds	0	2498336	ENHANCER OF RUDIMENTARY HOMOLOG homologous to DROER protein [Homo sapiens] >gi|1519519 sapiens]	6e-057
5038	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5039	X99728	H.sapiens NDUFV3 gene, exon 3	3e-092	2829450	NADH-UBIQUINONE OXIDOREDUCTASE 9 KD SUBUNIT PRECURSOR (COMPLEX I-9KD) (CI-9KD)	1e-015
5040	X78730	M. musculus DNA for the flanking seqeunces of the hypothalamic GRH first exons	2	<NONE>	<NONE>	<NONE>
5041	X84373	H.sapiens mRNA for nuclear factor RIP140 > :: gb|G28540|G28540 human STS SHGC-31616.	e-155	<NONE>	<NONE>	<NONE>
5042	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5043	X82272	Human endogenous retrovirus env mRNA	8e-081	1196429	(M14123) pol/env ORF (bases 3878-8257) first start codon at 4172; Xxx; putative [Homo sapiens]	6e-058
5044	AF029982	Mus musculus sarco(endo)plasmic reticulum calcium ATPase (SERCA2) gene, promoter region, exons 1-3, and partial cds	0.003	3873550	(AL033534) serine-rich protein	0.018
5045	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5046	Y12781	Homo sapiens mRNA for transducin (beta) like 1 protein	1e-084	3021409	(Y12781) transducin (beta) like 1 protein [Homo sapiens]	2e-064

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5047	S63912	D10S102=FBRNP [human, fetal brain, mRNA, 3043 nt]	4e-084	<NONE>	<NONE>	<NONE>
5048	X91192	H.sapiens PLC beta 3 gene (exon 1) and SOM172 gene (exon 1)	1e-096	3294231	(AJ223970) mono-methyl transferase	3
5049	X03558	Human mRNA for elongation factor 1 alpha subunit	0	1169475	ELONGATION FACTOR 1-ALPHA 1	e-108
5050	L31783	Mus musculus uridine kinase mRNA, partial cds	3e-029	1718058	URIDINE KINASE (URIDINE MONOPHOSPHO KINASE) >gi|471981 (L31783) uridine kinase	4e-011
5051	X75652	A.longa plastid genes for tRNAs, ribosomal protein, rRNA and elongation factor	1.3	<NONE>	<NONE>	<NONE>
5052	Z93123	M.acuminata mRNA; clone pBAN UD75	1.1	<NONE>	<NONE>	<NONE>
5053	D16901	Human HepG2 3' region cDNA, clone hmd2h05	1.5	<NONE>	<NONE>	<NONE>
5054	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.7

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
5055	AF043252	Homo sapiens mitochondrial outer membrane protein (Tom40) gene, nuclear gene encoding mitochondrial protein, exons 7, 8 and 9	e-106	3941342	(AF043250) mitochondrial outer membrane protein [Homo sapiens] >gi|3941347 (AF043253) mitochondrial outer membrane protein [Homo sapiens] >gi|4105703 (AF050154) D19S1177E [Homo sapiens]	6e-007
5056	X66494	R.norvegicus CHOT1 mRNA	1e-012	1545807	(D78572) membrane glycoprotein [Mus musculus]	3e-007
5057	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5058	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-007	3513368	(AB017202) entactin-2 [Mus musculus]	3e-005
5059	U77107	Fundulus lineolatus cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial protein, partial cds	0.37	3947877	(AL034382) putative mitosis and maintenance of ploidy protein [Schizosaccharomyces pombe]	7e-026
5060	X52317	Human mRNA for histone H2A.Z	5e-014	<NONE>	<NONE>	<NONE>
5061	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-008	<NONE>	<NONE>	<NONE>
5062	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1.2	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
5063	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
5064	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	1e-011	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	1.5
5065	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0002	<NONE>	<NONE>	<NONE>
5066	X15943	Huamn calcitonin/alpha-CGRP gene	1e-012	1575563	(U66464) hematopoietic progenitor kinase [Homo sapiens]	5.6
5067	AF001175	Homo sapiens ribonuclease P protein subunit p14 (Rpp14) mRNA, complete cds	0	4100563	(AF001175) ribonuclease P protein subunit p14 [Homo sapiens]	2e-032
5068	L29260	Arabidopsis thaliana 1-amino-1-cyclopropanecarboxylate synthase (ACS5) gene, complete cds.	0.41	<NONE>	<NONE>	<NONE>
5069	X57268	Mouse DNA for t-haplotype-specific elements (located in H-2 complex, ETn related)	1.2	<NONE>	<NONE>	<NONE>
5070	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	1e-010	2072296	(U95098) mitotic phosphoprotein 44 [Xenopus laevis]	5.5
5071	Y11896	M.musculus mRNA for Brx gene, partial	3e-018	2196874	(Y11896) BRX protein [Mus musculus]	3e-011

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5072	Y00711	Human mRNA for lactate dehydrogenase B (LDH-B)	0	126041	L-LACTATE DEHYDROGENASE H CHAIN dehydrogenase B (AA 1 - 334) [Homo sapiens] >gi|1200083	e-102
5073	AF065482	Homo sapiens sorting nexin 2 (SNX2) mRNA, complete cds	0	3152938	(AF065482) sorting nexin 2 [Homo sapiens]	3e-072
5074	M86374	Rat tropoelastin gene, intron 25 (partial).	0.13	<NONE>	<NONE>	<NONE>
5075	D50418	Mouse mRNA for AREC3, partial cds	6e-047	2495271	SKELETAL MUSCLE-SPECIFIC ARE BINDING PROTEIN AREC3 (HOMEOBOX PROTEIN SIX4) M18) - mouse >gi|1255626|gnl|PID|d1009550 (D50416) AREC3	2e-006
5076	D17448	Microcystis aeruginosa plasmid pMA2 DNA, complete genome sequence	0.13	<NONE>	<NONE>	<NONE>
5077	M29548	Human elongation factor 1-alpha (EF1A) mRNA, partial cds.	e-166	1169475	ELONGATION FACTOR 1-ALPHA 1	6e-010
5078	AF081496	Homo sapiens kinetochore protein BUB3 (BUB3) mRNA, complete cds	6e-044	2921873	(AF047472) spleen mitotic checkpoint BUB3 [Homo sapiens] protein BUB3 [Homo sapiens]	3e-006
5079	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
5080	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
5081	M14123	Human endogenous retrovirus HERV-K10.	2e-065	1196429	(M14123) pol/env ORF (bases 3878-8257) first start codon at 4172; Xxx; putative [Homo sapiens]	6e-037
5082	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5083	D30655	Homo sapiens mRNA for eukaryotic initiation factor 4AII, complete cds	0	673433	(X56953) protein synthesis initiation factor 4A [Mus musculus]	2e-092
5084	X16869	Human mRNA for elongation factor 1-alpha (clone CEF4)	5e-045	3122072	ELONGATION FACTOR 1-ALPHA 1 chicken >gi|488468 (L00677) elongation factor 1 alpha	1e-009
5085	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5086	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5087	U78310	Homo sapiens pescadillo mRNA, complete cds	e-122	2194203	(U78310) pescadillo [Homo sapiens]	9e-009
5088	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5089	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-005	<NONE>	<NONE>	<NONE>
5090	U09368	Human zinc finger protein ZNF140	0	1731416	ZINC FINGER PROTEIN 140 human >gi|487787 (U09368) zinc finger protein ZNF140	2e-062
5091	M98509	Human NFB genomic fragment.	1e-010	<NONE>	<NONE>	<NONE>
5092	AB002322	Human mRNA for KIAA0324 gene, partial cds	e-130	2996650	(AC004493) KIAA0324 [Homo sapiens]	9e-018
5093	AJ007670	Homo sapiens mRNA for LGMD2B protein	2e-014	403460	(L24521) transformation-related protein [Homo sapiens]	3.8

SEQ ID	Nearest Neighbor (BlastN vs. Genbank) ACCESSION	DESCRIPTION	P VALUE	Nearest Neighbor (BlastX vs. Non-Redundant Proteins) ACCESSION	DESCRIPTION	P VALUE
5094	X16869	Human mRNA for elongation factor 1-alpha (clone CEF4)	0	181967	(M29548) elongation factor 1-alpha [Homo sapiens]	2e-036
5095	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>
5096	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0005	<NONE>	<NONE>	<NONE>
5097	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
5098	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	2e-006	<NONE>	<NONE>	<NONE>
5099	U45421	Borrelia burgdorferi 2.9-1 locus, ORF 5-8, ORF-A-D, REP+, REP-, and lipoprotein (LP) genes, complete cds	0.014	3510605	(AF044267) gyrase subunit B [Chlamydia trachomatis]	3.4
5100	L54057	Homo sapiens CLP mRNA, partial cds.	0	<NONE>	<NONE>	<NONE>
5101	D14660	Human mRNA for KIAA0104 gene, complete cds	0	1350786	PUTATIVE 60S RIBOSOMAL PROTEIN sapiens] >gi|3947438 (AC005034) ribosomal protein-like	e-111

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5102	X78627	H.sapiens mRNA for translin.	0	1082873	translin - human >gi|607130 (X78627) translin [Homo sapiens] >gi|1586346|prf||2203413A recombination hotspot-binding protein [Homo sapiens]	5e-068
5103	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	0.0001	<NONE>	<NONE>	<NONE>
5104	M12585	Mouse alpha-1 antitrypsin gene, segment 1.	2e-006	3873550	(AL033534) serine-rich protein	1.7
5105	X52967	Human mRNA for ribosomal protein L7	0	423072	ribosomal protein L7 - human	7e-061
5106	U95094	Xenopus laevis XL-INCENP (XL-INCENP) mRNA, complete cds	7e-007	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5107	X78722	M.musculus GLUT2 gene for glucose transporter	0.34	1685115	(U68754) putative transcription factor [Dictyostelium discoideum]	3.8
5108	AF002677	Dictyostelium discoideum DEAD-box RNA helicase	0.28	3293508	(AF069188) NADH dehydrogenase 1 [Ephedrus laevicollis]	0.81
5109	AB018263	Homo sapiens mRNA for KIAA0720 protein, partial cds	0.87	107240	oncogene 1 (tre-2 locus) (clone 210) - human	0.19
5110	AF017115	Homo sapiens cytochrome c oxidase subunit IV precursor (COX4) gene, nuclear gene encoding mitochondrial protein, complete cds	0.77	<NONE>	<NONE>	<NONE>
5111	AE001383	Plasmodium falciparum chromosome 2, section 20 of 73 of the complete sequence	0.15	2315754	(AF016681) No definition line found [Caenorhabditis elegans]	9.6
5112	D49577	Pig mRNA for rearranged T-cell receptor delta-chain/Vdelta1.14-Ddeltas-Jdelta1, partial cds	0.91	<NONE>	<NONE>	<NONE>
5113	U63810	Homo sapiens WD40 protein Ciao 1 mRNA, complete cds	0.0	3219331	(AC004020) Unknown gene product [Homo sapiens]	3e-92
5114	AF085858	Homo sapiens full length insert cDNA clone YN49B07	e-172	3329465	(AF064553) NSD1 protein [Mus musculus]	8e-54
5115	X01682	Mouse gene for cytochrome P3-450	0.026	1381394	(U40989) tat interactive protein [Homo sapiens]	4.0

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5116	AE001432	Plasmodium falciparum chromosome 2, section 69 of 73 of the complete sequence	1.5	3873713	(Z74026) cDNA EST yk452h4.3 comes from this gene; cDNA EST yk452h4.5 comes from this gene	9e-11
5117	U31973	Human phosphodiesterase A' subunit (PDE6C) mRNA, complete cds. > :: gb|G28549|G28549 human STS SHGC-31657.	2.3	136976	PROTEIN UL87 >gi|76594|pir||S09851 hypothetical protein UL87 - human cytomegalovirus cytomegalovirus]	8.1
5118	X02212	Chicken alpha-cardiac actin gene	2.6	<NONE>	<NONE>	<NONE>
5119	AE000838	Methanobacterium thermoautotrophicum from bases 494834 to 505698 (section 44 of 148) of the complete genome	0.89	765086	(D30786) feline CD9 [Felis catus]	1.4
5120	U89744	Rattus norvegicus putative cell surface antigen mRNA, complete cds	0.68	728850	GLUCOAMYLASE S1/S2 PRECURSOR (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE) >gi|626156|pir||S48478 glucan 1,4-alpha-glucosidase (EC 3.2.1.3) - yeast sta1, len: 1367, CAI: 0.3, AMYH_YEAST P08640 GLUCOAMYLASE S1 (EC 3.2.1.3) [Saccharomyc	9e-06

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5121	J04974	Human alpha-2 type XI collagen mRNA (COL11A2).	1.2	114887	BREAKPOINT CLUSTER REGION PROTEIN protein, splice form 1 - human >gi|29421 (X02596) bcr gene product [Homo sapiens]	9.4
5122	AL021806	Homo sapiens DNA sequence from PAC 779B17 on chromosome 22q13.1. Contains exon trap, complete sequence	0.046	2827756	EPHRIN TYPE-A RECEPTOR 1 PRECURSOR	1.9
5123	X68826	P.sativum mRNA for fructose 1,6 biphosphatase	0.95	1314248	(U24681) NADH:cytochrome c reductase [synthetic construct]	2e-05
5124	M14431	Bacteriophage phi-29 gene-16 gene, complete cds.	0.035	<NONE>	<NONE>	<NONE>
5125	U17033	Human 180 kDa transmembrane PLA2 receptor mRNA, complete cds.	0.36	722372	(U23139) similar to beta transducin proteins containing TRP-ASP domains [Caenorhabditis elegans]	3e-08
5126	Z50202	P.vulgaris arc5-1 gene	0.007	1151256	(U43319) transmembrane receptor [Mus musculus]	0.13
5127	AF013711	Homo sapiens 22 kDa actin-binding protein	2e-10	<NONE>	<NONE>	<NONE>
5128	AF086324	Homo sapiens full length insert cDNA clone ZD53E07	5e-09	3318653	(U83192) post-synaptic density protein 95 [Homo sapiens]	0.001
5129	D90117	T. thermophila mRNA for citrate synthase (EC 4.1.3.7)	0.63	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5130	D45105	Metschnikowia reukaufii 26S rRNA, partial sequence	0.78	<NONE>	<NONE>	<NONE>
5131	D85088	Ectoplana limuli DNA for 18s ribosomal RNA	0.41	267408	PROBABLE DNA PACKAGING PROTEIN packaging protein [Human herpesvirus 4]	7.2
5132	X89886	P.patens mRNA for 5-aminolevulinate dehydratase	0.41	3875246	(Z81490) similar to WD domain, G-beta repeats (2 domains); cDNA EST EMBL:T00482 comes from this gene; cDNA EST EMBL:T00923 comes from this gene; cDNA EST yk449d4.3 comes from this gene; cDNA EST yk449d4.5 comes from this gen...	2e-22
5133	AB014564	Homo sapiens mRNA for KIAA0664 protein, partial cds	0.0	2981221	(AF053091) eyelid [Drosophila melanogaster]	0.076
5134	AE001403	Plasmodium falciparum chromosome 2, section 40 of 73 of the complete sequence	0.003	2495297	HYPOTHETICAL 26.3 KD HOMEOBOX PROTEIN C02F12.5 IN CHROMOSOME X >gi|1109893 (U41545) strong similarity to homeobox proteins; similar to inhibitor domain of tissue factor pathway inhibitor	3.7

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5135	U92574	Fugu rubripes homeobox protein HOXB-1 (FrHOXB-1) gene, complete cds	0.54	<NONE>	<NONE>	<NONE>
5136	U31118	Xenopus laevis cytoplasmic myosin II regulatory light chain mRNA, complete cds	0.26	3879530	(Z49130) cDNA EST yk486b9.3 comes from this gene; cDNA EST yk486b9.5 comes from this gene	8e-07
5137	L49035	Gorilla gorilla ABC-transporter (TAP2) mRNA, complete cds	0.21	4007066	(AJ131571) X protein [Hepatitis B virus]	1.3
5138	AF068628	Mus musculus DNA cytosine-5 methyltransferase 3B3 (Dnmt3b) mRNA, alternatively spliced, complete cds	4e-04	<NONE>	<NONE>	<NONE>
5139	M64982	Human fibrinogen alpha chain gene, complete mRNAs.	0.062	<NONE>	<NONE>	<NONE>
5140	M19262	Rat clathrin light chain (LCB3) mRNA, complete cds.	0.25	2088802	(AF003151) D1007.4 gene product [Caenorhabditis elegans]	0.012
5141	X94947	L.esculentum mRNA for homeobox protein	3.7	2315770	(AF016683) K09F6.1 gene product [Caenorhabditis elegans]	0.096
5142	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
5143	M33782	Human TFEB protein mRNA, partial cds.	0.36	<NONE>	<NONE>	<NONE>
5144	AB011098	Homo sapiens mRNA for KIAA0526 protein, complete cds	2e-07	2501115	TBX2 PROTEIN (T-BOX PROTEIN 2)	0.90

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5145	AF039029	Homo sapiens snurportin1 mRNA, complete cds	0.0	3834390	(AF039029) snurportin1 [Homo sapiens]	e-108
5146	U22970	Human interferon-inducible peptide (6-16) gene, complete cds	0.21	<NONE>	<NONE>	<NONE>
5147	D63880	Human mRNA for KIAA0159 gene, complete cds	2e-64	<NONE>	<NONE>	<NONE>
5148	AB011174	Homo sapiens mRNA for KIAA0602 protein, partial cds	e-164	3043728	(AB011174) KIAA0602 protein [Homo sapiens]	2e-53
5149	AF053551	Homo sapiens metaxin 2 (MTX2) mRNA, nuclear gene encoding mitochondrial protein, complete cds	0.0	3283049	(AF053551) metaxin 2 [Homo sapiens]	1e-76
5150	Y13382	Arabidopsis thaliana ferrochelatase-I gene and promoter sequence	0.012	<NONE>	<NONE>	<NONE>
5151	AF044854	Colias eurytheme large subunit ribosomal RNA gene, partial sequence; tRNA-Val gene, complete sequence; and small subunit ribosomal RNA gene, partial sequence, mitochondrial genes for mitochondrial RNAs	1.3	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5152	AF005059	Toxoplasma gondii p97 mRNA, complete cds	0.90	2570049	(Y08701) Pinin [Mus musculus]	1.3
5153	D84307	Human mRNA for phosphoethanolamine cytidylyltransferase, complete cds	0.013	<NONE>	<NONE>	<NONE>
5154	D38050	Aspen prxA3a gene for peroxidase, complete cds	0.018	1723942	HYPOTHETICAL 20.8 KD PROTEIN IN COX4-GTS1 INTERGENIC REGION >gi|2131614|pir||S61134 hypothetical protein YGL183c - yeast (Saccharomyces cerevisiae) >gi|1143564|gnl|PID|e199057 (X91489) putative HMG box [Saccharomyces cerevisiae]	0.39
5155	AL010208	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-103, complete sequence	0.13	1850115	(Z86089) fadD2 [Mycobacterium tuberculosis]	1.5
5156	U07807	Human metallothionein IV (MTIV) gene, complete cds.	0.004	<NONE>	<NONE>	<NONE>
5157	AF048991	Homo sapiens MutS homolog 5 (MSH5) gene, exons 13 through 25 and complete cds	0.001	3986756	(AF109905) NG23 [Mus musculus]	0.007

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5158	U39079	Schizosaccharomyces pombe ARS binding protein 1	0.50	<NONE>	<NONE>	<NONE>
5159	X01706	Mouse intracisternal A-particle (IAP) gene 62 long terminal repeat (LTR)	0.41	2224713	(AB002384) KIAA0386 [Homo sapiens]	8e-04
5160	AF030558	Rattus norvegicus phosphatidylinositol 5-phosphate 4-kinase gamma mRNA, complete cds	8e-13	<NONE>	<NONE>	<NONE>
5161	L06453	Strongylocentrotus purpuratus (clone C) high mobility group 1 protein (HMG1 homologue) gene, complete cds.	0.33	3914031	BETA-GALACTOSIDE SPECIFIC LECTIN I A CHAIN (MLA) (ML-I A) (RRNA N-GLYCOSIDASE)	0.087
5162	Z68320	Caenorhabditis elegans cosmid W07A12, complete sequence [Caenorhabditis elegans]	0.28	2500558	PUTATIVE RIBONUCLEASE III (RNASE III) >gi|3876420|gnl|PID|e1346063 (Z81070) similar to ribonuclease [Caenorhabditis elegans]	2e-25
5163	U40397	Mus musculus serum amyloid A-4 protein (Saa4) gene, complete cds	5e-04	<NONE>	<NONE>	<NONE>
5164	X00367	Chlamydomonas chloroplast DNA region with ARS element 03 (ARS = autonomously replicating sequence)	0.046	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5165	U43838	Glycine max choline kinase GmCK1p mRNA, complete cds	1.2	132918	50S RIBOSOMAL PROTEIN L35, CHLOROPLAST PRECURSOR (CL35) >gi|81486|pir||A36107 ribosomal protein L35 precursor, chloroplast - spinach oleracea]	2.4
5166	U67590	Methanococcus jannaschii section 132 of 150 of the complete genome	0.097	<NONE>	<NONE>	<NONE>
5167	AB006787	Mus musculus mRNA for apoptosis signal-regulating kinase 1, complete cds	0.39	1263187	(U24215) HOMODA hydrolase [Pseudomonas putida] putida]	0.83
5168	U43567	Trypanosoma cruzi kinetoplast maxicircle DNA, clone TRCKPMAX	0.054	<NONE>	<NONE>	<NONE>
5169	U04706	Bos taurus 50 kDa protein (adp50) mRNA, complete cds.	0.0	2498104	ADRENAL MEDULLA 50 KD PROTEIN	8e-83
5170	L14684	Rattus norvegicus nuclear-encoded mitochondrial elongation factor G mRNA, complete cds.	e-137	585084	ELONGATION FACTOR G, MITOCHONDRIAL PRECURSOR (MEF-G) >gi|543383|pir||S40780 translation elongation factor G, mitochondrial - rat >gi|310102	3e-59
5171	U01120	Human glucose-6-phosphatase mRNA, complete cds. >	2e-04	544361	GLUCOSE-6-PHOSPHATASE (G6PASE) 3.1.3.9) - human >gi|452444 (U01120) glucose-6-phosphatase [Homo sapiens]	4e-12

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5172	D87671	Rat mRNA for TIP120, complete cds	e-144	1799570	(D87671) TIP120 [Rattus norvegicus]	3e-69
5173	U22296	Rattus norvegicus casein kinase 1 gamma 1 isoform mRNA, complete cds	e-120	3024053	CASEIN KINASE I, GAMMA 1 ISOFORM kinase 1 gamma 1 isoform [Rattus norvegicus]	8e-54
5174	Y07648	A.thaliana nit2 gene, nit1 gene and nit3 gene	0.007	2429486	(AF025464) No definition line found [Caenorhabditis elegans]	9.5
5175	AB013721	Oryctolagus cuniculus mRNA for mitsugumin 23, complete cds	3e-91	3628745	(AB013721) mitsugumin 23 [Oryctolagus cuniculus]	0.006
5176	M74069	Saccharomyces cerevisiae endochitinase (CTS1-1) gene, complete cds.	2.5	<NONE>	<NONE>	<NONE>
5177	Z61469	H.sapiens CpG DNA, clone 52h1, forward read cpg52h1.ft1a .	1e-77	1184072	(U40766) COL-1 [Meloidogyne incognita]	0.002
5178	AF015043	Homo sapiens EH-binding protein mRNA, partial cds	0.0	2492914	APOLIPOPROTEIN C-IV PRECURSOR cluster E-C1-C2 linked gene [Mus musculus]	3.0
5179	X74560	H.sapiens (clone pS2) sequence	3e-04	3687469	(AL031798) putative diphthine synthase	3e-23
5180	X94768	H.sapiens RP3 gene (XLRP gene 3)	1e-05	<NONE>	<NONE>	<NONE>
5181	X80937	M.musculus mRNA for RIP1 protein	0.48	107750	synapsin Ib - human	3e-04
5182	M12759	Human Ig J chain gene, exons 3 and 4.	0.036	<NONE>	<NONE>	<NONE>

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5183	M30773	Human calcineurin B mRNA, complete cds	0.002	3878494	(Z79602) predicted using Genefinder; Similarity to Yeast hypothetical protein YAE2 gene; cDNA EST EMBL:M88949 comes from this gene	3e-06
5184	U08831	Human immunodeficiency virus type 1, sample 019 from Thailand (E2TH019W.01di1sCD), envelope glycoprotein c2v3 region (env) gene, partial cds.	0.015	<NONE>	<NONE>	<NONE>
5185	Z98303	Human DNA sequence from BAC 140H19 on chromosome Xq24-25. Contains STS	0.005	<NONE>	<NONE>	<NONE>
5186	AE000952	Archaeoglobus fulgidus section 155 of 172 of the complete genome	2e-07	3257245	(AP000003) 571aa long hypothetical oxaloacetate decarboxylase alpha chain [Pyrococcus horikoshii]	5e-08
5187	L48476	Homo sapiens (subclone 3_e10 from P1 H21) DNA sequence.	2e-04	3877439	(Z72510) similarity to yeast UTR3 protein (Swiss Prot accession number P21374); cDNA EST EMBL:D72822 comes from this gene; cDNA EST EMBL:D75763 comes from this gene; cDNA EST yk274e3.3 comes from this gene; cDNA EST	0.19

SEQ ID	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
					yk274e3....	
5188	U95102	Xenopus laevis mitotic phosphoprotein 90 mRNA, complete cds	3e-09	<NONE>	<NONE>	<NONE>
5189	AF055022	Homo sapiens clone 24684 mRNA sequence	e-102	2708743	(AC003952) putative Tal-1-like reverse transcriptase	4.0
5190	AJ009761	Homo sapiens mRNA for putative dimethyladenosine transferase, partial	e-121	4050050	(AF102147) putative dimethyladenosine transferase [Homo sapiens]	8e-48
5191	Y08238	H.pylori clpB gene	0.27	1572756	(U70848) C43G2.1 gene product [Caenorhabditis elegans]	1e-21
5192	<NONE>	<NONE>	<NONE>	2828280	(AL021687) putative protein [Arabidopsis thaliana] >gi|2832633|gnl|PID|e1249651 (AL021711) putative protein [Arabidopsis thaliana]	9e-36
5193	J00747	Rat insulin-I (ins-1) gene.	6e-05	4154522	(AE001441) putative [Helicobacter pylori]	3.2
5194	U64454	Human 3' of immunoglobulin heavy chain locus	0.83	281204	gene LF3 protein - human herpesvirus 4 virus]	0.069

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5195	AB002383	Human mRNA for KIAA0385 gene, complete cds	8e-13	2498318	DXS6673E PROTEIN retardation candidate gene [Homo sapiens]	2e-24
5196	M81840	Human NRL gene product mRNA, complete cds.	0.029	3875740	(Z81497) similar to mannosyl-oligosaccharide alpha-1, 2-mannosidase; cDNA EST EMBL:D67155 comes from this gene; cDNA EST EMBL:D64219 comes from this gene; cDNA EST yk260e12.3 comes from this gene; cDNA EST yk260e12.5 comes f...	6e-18
5197	U12523	Rattus norvegicus ultraviolet B radiation-activated UV98 mRNA, partial sequence.	1e-10	3219914	HYPOTHETICAL 16.8 KD PROTEIN C30D10.04 IN CHROMOSOME II >gi|2276353|gnl|PID|e330328 pombe]	2e-11
5198	AB017026	Mus musculus mRNA for oxysterol-binding protein, complete cds	0.0	3551523	(AB017026) oxysterol-binding protein	e-120
5199	U83981	Homo sapiens apoptosis associated protein (GADD34) mRNA, complete cds	e-119	3258618	(U83981) apoptosis associated protein [Homo sapiens]	7e-26

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5200	U37580	Streptomyces coelicolor phosphotyrosine protein phosphatase (ptpA) gene, putative cystathionine gamma-lyase (cysA) gene, and LysR-like protein gene, complete cds	0.048	2459916	(AF005859) anon2D7 [Drosophila melanogaster]	0.18
5201	D00723	Human mRNA for hydrogen carrier protein, a component of an enzyme complex, glycine synthase (EC 2.1.2.10)	3e-19	<NONE>	<NONE>	<NONE>
5202	X89366	A.thaliana DNA for 40 kDa protein gene	0.025	1209669	(U38810) CAGR1 [Homo sapiens] >gi|3098420 (AF040945) homeotic regulator homolog MAB21 [Mus musculus]	0.008
5203	AF067158	HIV-1 isolate 301905 from India, complete genome	2.4	<NONE>	<NONE>	<NONE>
5204	U09954	Human ribosomal protein L9 gene, 5' region and complete cds.	5e-37	<NONE>	<NONE>	<NONE>
5205	AF029984	Lycopersicon esculentum COP1 homolog (COP1) mRNA, complete cds	7e-37	4090943	(AF029984) COP1 homolog [Lycopersicon esculentum]	2e-49
5206	U43076	Mus musculus cdc37 homolog mRNA, complete cds	2e-17	2655422	(AF035530) CDC37 [Gallus gallus]	2e-22

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5207	U07745	Lycopersicon esculentum biotin-containing subunit of methylcrotonyl-CoA carboxylase mRNA, partial cds.	4e-32	533707	(U12536) 3-methylcrotonyl-CoA carboxylase precursor	4e-49
5208	X74465	Human papillomavirus type 10 genomic DNA	1.3	3879121	(Z70310) predicted using Genefinder; Similarity to Mouse ankyrin (PIR Acc. No. S37771); cDNA EST EMBL:T01923 comes from this gene; cDNA EST EMBL:D32335 comes from this gene; cDNA EST EMBL:D32723 comes from this gene; cDNA ES... Genefinder; Similarity to M	2e-56
5209	X99261	A.evecta gene encoding blue-light photoreceptor, intron	0.14	2257939	(AF005665) properdin [Homo sapiens]	7.6
5210	M35296	Human tyrosine kinase arg gene mRNA.	1.1	1125781	(U42841) short region of weak similarity to chicken limb deformity protein (PIR:S24286) [Caenorhabditis elegans]	0.61
5211	Z57610	H.sapiens CpG DNA, clone 187a10, reverse read cpg187a10.rt1a .	e-102	404764	(L10409) fork head related protein [Mus musculus]	1e-16

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5212	X85753	Homo sapiens mRNA for CDK8 protein kinase > :: emb|A61243|A61243 Sequence 1 from Patent WO9709432	6e-59	1171821	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5 >gi|559499|gnl|PID|e1192548 (X54253) ND5 protein	9.5
5213	U27341	Bos taurus endothelin converting enzyme-2 Sequence 1 from patent US 5736376	7e-61	2136744	endothelin converting enzyme-2 - bovine	3e-29
5214	U63648	Mus musculus p160 myb-binding protein (P160) mRNA, complete cds	4e-58	2645205	(U63648) p160 myb-binding protein [Mus musculus]	2e-34
5215	AF035940	Homo sapiens MAGOH mRNA, complete cds	e-140	2306969	(AF007860) xl-Mago [Xenopus laevis]	3e-76
5216	X80045	O.aries mRNA for acetyl-CoA carboxylase	2e-54	542750	acetyl-CoA carboxylase (EC 6.4.1.2) - human sapiens] >gi|740964|prf||2006242A Ac-CoA carboxylase	8e-10
5217	Z46372	R.norvegicus RNA for DNA topoisomerase II.	e-134	3876360	(Z68315) Similarity to Human MAP kinase phosphatase-1 (SW:PTN7_HUMAN) [Caenorhabditis elegans]	3e-12
5218	AF035940	Homo sapiens MAGOH mRNA, complete cds	e-143	2330011	(AF007862) mm-Mago [Mus musculus] >gi|2909828 (AF035939) similar to mago nashi [Mus musculus] >gi|2909830	7e-81

Table 21. Clones Deposited on January 22, 1999

cDNA LIbrary Ref. ATCC No	Library ES17 207064	Library ES18 207065	Library ES19 207066
Clone Names	M00001601A:E09	M00001594A:D06	M00003906A:F04
	M00001368A:D07	M00001613D:H10	M00003908A:F12
	M00003917A:D02	M00001596D:E10	M00003914A:G09
	M00001673A:A04	M00001592C:G04	M00003915C:H04
	M00003868B:G11	M00001599D:A09	M00003905D:B08
	M00003917C:D03	M00001619B:A09	M00003908C:G09
	M00003791C:E09	M00001593B:E11	M00003914B:A11
	M00003870A:C05	M00001605A:E06	M00003916C:C05
	M00003922A:D02	M00001608A:D03	M00003959A:A03
	M00003861C:H02	M00001616C:A02	M00003905D:C08
	M00003931B:A11	M00001617A:D06	M00003908D:D12
	M00001679D:B05	M00001595C:E01	M00003901B:H04
	M00001679C:D05	M00001616C:A11	M00004031A:E01
	M00001687A:G01	M00001608C:E11	M00004029C:C12
	M00003945A:E09	M00001610C:E06	M00003911A:F10
	M00003908A:H09	M00001612B:D11	M00003914C:F09
	M00001649B:G12	M00001618B:E05	M00003963D:B05
	M00003813D:H12	M00001621C:C10	M00003986C:E09
	M00004087C:D03	M00001647A:H08	M00004031A:F07
	M00004269B:C08	M00001631D:B10	M00003907C:C02
	M00004348A:A02	M00001608D:E09	M00003911B:F08
	M00001679C:D01	M00001641B:C10	M00003914C:H05
	M00001490A:E11	M00001641D:E02	M00003918C:C12
	M00001387A:E10	M00001630D:H10	M00003914C:C02
	M00001397B:G03	M00001585C:D10	M00003914A:E04
	M00001441D:E04	M00001560A:H10	M00003903B:D03
	M00001352C:G09	M00001573B:C06	M00003905A:F09
	M00001370D:A12	M00001660C:D11	M00003867C:E11
	M00001387B:A06	M00001641C:C05	M00003870B:B08
	M00001397C:A10	M00001578B:B05	M00003879D:A08
	M00001536D:G02	M00001587C:C10	M00003891D:B10
	M00003895C:A10	M00001590B:C07	M00003901C:A08
	M00001464B:B03	M00001554A:E04	M00003903C:C04
	M00004370A:G05	M00001570C:G06	M00003905A:F10
	M00001490B:H11	M00001576A:B09	M00003906C:D06
	M00001530B:D10	M00001582A:H01	M00003907D:A12
	M00001579C:E09	M00001582B:E12	M00003905C:G11
	M00001587A:H03	M00001615B:F07	M00003914D:D10
	M00001457C:H12	M00001571C:A04	M00003972A:G09
	M00001535C:E01	M00001573D:D10	M00003975D:C06
	M00001561D:C05	M00001576A:F11	M00003905C:B02
	M00001589A:C01	M00001579C:G05	M00003907D:F11
	M00001664D:G07	M00001582D:A02	M00003914A:G06
	M00001565A:H09	M00001589B:E07	M00003914D:E03
	M00001381C:B08	M00001575B:B02	M00003972C:F08
	M00001395C:F11	M00001578C:G06	M00003976C:D06
	M00001429D:F11	M00001591A:B08	M00003907C:C04

M00001449A:F01	M00001607A:F11	M00003905B:C06
M00001391C:H02	M00001579C:E06	M00004088C:A12
M00001429D:H12	M00001661C:F11	M00004103C:D04
M00001450A:G11	M00001650B:C10	M00004107A:D01
M00001344B:F12	M00001654C:E04	M00004110A:E04
M00001391D:C06	M00001656B:A08	M00004062A:H06
M00003971A:A06	M00001662C:B02	M00004075D:C10
M00001346A:E04	M00001656B:D05	M00004081D:H09
M00001455C:G07	M00001661C:F10	M00004089A:B08
M00001402D:F02	M00001663A:C11	M00004103D:F10
M00001438D:C06	M00001669A:C10	M00004107B:B04
M00001349B:G05	M00001651B:B12	M00004032C:B02
M00001389C:A08	M00001653B:E06	M00004078C:F04
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M00001453A:B01	M00001669A:G12	M00004104C:H12
M00001456D:E08	M00001674D:C10	M00004110D:A10
M00001399A:C03	M00001651B:E06	M00004036D:F02
M00004496C:H03	M00001651C:C05	M00004088C:E04
M00004135D:G02	M00001657C:C07	M00004104D:A04
M00004692A:E07	M00001662A:C12	M00004107D:E12
M00004374D:E10	M00001663D:C06	M00004115D:D08
M00004405D:C04	M00001590B:C05	M00003846A:D03
M00004312B:H07	M00001483C:G06	M00004072C:F08
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M00001361B:C07	M00001641C:C06	M00003971B:B07
M00004341B:G03	M00001642D:F02	M00003978C:A03
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M00004064D:A11	M00001632B:E05	M00004033D:D07
M00004087A:G08	M00001639A:C11	M00004072D:H12
M00004344B:H04	M00001642D:G10	M00004077B:H11
M00004497A:H03	M00001624A:G11	M00004080A:F01
M00001338C:E10	M00001626C:G08	M00004092C:B03
M00001366D:E12	M00001672D:D04	M00004037B:C04
M00001390D:E03	M00001639A:H06	M00004073C:D04
M00001413B:H09	M00001662C:A04	M00004081A:A08
M00004271B:B06	M00001641B:B01	M00004085B:B05
M00004151D:E03	M00001673C:A02	M00004090C:C07
M00001660B:C04	M00001650A:A12	M00004086D:B09
M00003802D:B11	M00001659D:D03	M00004088D:B03
M00001579C:E08	M00001661B:B05	M00004090C:C10
M00001557D:C08	M00001671D:E10	M00004102C:D09
M00003779B:E12	M00001652D:A06	M00004105C:E09
M00001638A:D10	M00001654C:D05	M00004035A:G10
M00003794A:B03	M00001656A:B07	M00003906A:H07
M00001616C:F07	M00001647B:C09	M00004083B:G03

M00001679A:F01	M00001635A:C06	M00001675B:E02
M00001604C:E09	M00001482D:A04	M00003793C:D09
M00001653B:E09	M00001485C:B10	M00003762B:H09
M00001585A:F07	M00001457D:A07	M00001694C:F12
M00003811D:A12	M00001461A:E05	M00001678D:C11
M00001653C:F12	M00001477A:G07	M00001677D:B07
M00001679D:F06	M00001479D:H03	M00001677B:A02
M00003751D:B02	M00001482C:D02	M00001675B:H03
M00003801A:B10	M00001484D:G05	M00003808D:D04
M00003844C:A08	M00001459B:D03	M00003752B:C02
M00001636C:C01	M00001464B:C11	M00003819D:B11
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M00001444C:D05	M00001485C:H10	M00001678C:C06
M00004040B:F10	M00001485D:E05	M00001675B:D02
M00001355A:C12	M00001487C:G03	M00003750C:H05
M00001401A:H07	M00001514A:B04	M00001694A:B12
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M00001399C:D09	M00001456D:F05	M00003870A:H01
M00001347C:G08	M00001456D:G11	M00003842C:D11
M00001453D:G12	M00001477D:F10	M00003828B:F09
M00001382A:F04	M00001481A:G06	M00003856C:H09
M00001392D:H04	M00001464A:B03	M00003851A:C10
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M00001535A:D02	M00001457A:G03	M00003772C:B12
M00001352A:E12	M00001669B:G02	M00001677D:F03
M00001381B:F06	M00001479D:G06	M00001678B:B12
M00004117A:D11	M00001473D:B11	M00001678D:G03
M00004217C:D03	M00001475A:A12	M00001675C:F01
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M00004056B:D09	M00001473D:G01	M00001678A:F05
M00004142A:B12	M00001476D:C05	M00001677B:B06
M00001396D:B03	M00001484A:A10	M00003794A:E12
M00001370D:E12	M00001457C:F02	M00003771B:E05
M00001390C:C11	M00001459B:A12	M00001678A:A11
M00003989A:H11	M00001464A:E07	M00003805B:C04
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M00004498D:D05	M00001514A:B08	M00001679B:H07
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M00001391D:D10	M00001579A:C03	M00003856C:B08
M00001376B:A02	M00001517A:G08	M00003858D:G06
M00001405B:D07	M00001530B:G09	M00003870B:F04
M00001368A:A03	M00001538A:F12	M00003871C:B05
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M00003900D:B10	M00001547A:F06	M00003901B:A09
M00001494B:C01	M00001550A:F07	M00003901C:D03
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M00001408B:G06	M00001572A:A10	M00003901C:F09
M00004252C:E03	M00001575B:G01	M00003904D:B10
M00003901C:A03	M00001487D:C11	M00003850D:H11
M00004071D:A10	M00001577B:A03	M00003902B:D06
M00001377B:H01	M00001539D:E10	M00003879A:C01
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M00004290A:B03	M00001569B:G11	M00003903A:H09
M00003911D:B04	M00001573A:A06	M00003905A:A06
M00004128B:G01	M00001575D:A10	M00003875D:D09
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M00004409B:A11	M00001560A:H06	M00003905A:E07
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	M00001550A:D09	M00003858B:G05
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	M00001513A:G07	M00003857C:G01
	M00001530A:F12	M00003816C:E09
	M00001538A:D12	M00003813A:G04
	M00001587A:G06	M00003850D:A05
	M00001551A:D04	
	M00001485B:C03	

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5248	U87277	Human splicing factor SRp30c gene, exon 1	0.14	267449	HYPOTHETICAL 12.5 KD PROTEIN ZK637.2 IN CHROMOSOME III >gi|102507|pir||S15787 hypothetical protein 1 (cosmid ZK637) – Caenorhabditis elegans Genefinder; cDNA EST yk217b5.3 comes from this gene; cDNA EST yk217b5.5 comes from this gene; cDNA EST yk340g12.3	1e-08
5249	D16919	Human HepG2 3' region cDNA, clone hmd3e06	e-164	3152559	(AC002986) Similarity to A. thaliana gene product F21M12.20, gb|AC000132. EST gb|Z25651 comes from this gene. [Arabidopsis thaliana]	2e-52
5250	AJ006064	Rattus norvegicus mRNA for coronin-like protein	e-142	3757680	(AJ006064) coronin-like protein [Rattus norvegicus]	5e-73
5251	AB011000	Mus musculus mRNA for choline/ethanolamine kinase, complete cds	1e-18	2780752	(AB006607) choline/ethanolamine kinase	0.001

	Nearest Neighbor (BlastN vs. Genbank)			Nearest Neighbor (BlastX vs. Non-Redundant Proteins)		
SEQ ID	ACCESSION	DESCRIPTION	P VALUE	ACCESSION	DESCRIPTION	P VALUE
5252	X80169	M.musculus mRNA for 200 kD protein	0.0	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi|1083553|pir||A 55117 tsg24 protein - mouse	e-150

Table 3 Polynucleotides encoding gene products of a protein family or having a known functional domain(s).

SEQ ID NO:	Validation Sequence	Biological Activity (Pr file)	Start	Stop	Sc re	Direction
3920	393.E10.sp6:148957	7tm_1	531	710	9520	for
2667	172.F10.sp6:133946	7tm_2	45	724	8708	rev
2758	177.C6.sp6:134733	7tm_2	41	697	9828	rev
2933	184.C7.sp6:135556	7tm_2	3	834	8987	for
3129	121.E12.sp6:131940	7tm_2	245	1324	9550	rev
3365	172.A7.sp6:133883	7tm_2	94	761	8743	rev
3418	123.F9.sp6:132333	7tm_2	203	585	8785	rev
3419	123.F9.sp6:132333	7tm_2	203	585	8785	rev
3597	394.G2.sp6:149165	7tm_2	73	793	9209	for
3648	370.C5.sp6:141726	7tm_2	76	770	9269	for
3686	370.B1.sp6:141710	7tm_2	89	662	8791	for
3695	368.A12.sp6:141322	7tm_2	121	719	9015	rev
3696	368.A12.sp6:141322	7tm_2	121	719	9015	rev
4172	219.C10.sp6:139007	7tm_2	46	774	11394	rev
4216	368.D11.sp6:141357	7tm_2	66	775	9384	rev
4228	368.A11.sp6:141321	7tm_2	7	1079	9097	for
4441	99.F7.sp6:131296	7tm_2	534	1265	10956	rev
4442	99.F7.sp6:131296	7tm_2	534	1265	10956	rev
4482	100.D2.sp6:131459	7tm_2	122	1404	9296	rev
4495	395.B12.sp6:149307	7tm_2	79	1432	10427	rev
4525	90.B4.sp6:130874	7tm_2	4	691	9435	for
4616	100.D5.sp6:131462	7tm_2	655	1349	9255	for
4653	100.D7.sp6:131464	7tm_2	357	1346	11461	rev
4654	100.D7.sp6:131464	7tm_2	357	1346	11461	rev
4658	100.H6.sp6:131511	7tm_2	119	1035	10001	rev
4659	100.G6.sp6:131499	7tm_2	363	1188	9901	rev
4660	100.F6.sp6:131487	7tm_2	50	1127	8799	for
4661	100.F6.sp6:131487	7tm_2	50	1127	8799	for
4710	367.H9.sp6:141210	7tm_2	143	1266	11883	rev
4755	370.F4.sp6:141761	7tm_2	78	704	8942	for
4856	367.H11.sp6:141212	7tm_2	176	1227	9975	rev
4885	123.E10.sp6:132322	7tm_2	210	691	9071	rev
4900	123.E10.sp6:132322	7tm_2	210	691	9071	rev
4901	123.E10.sp6:132322	7tm_2	210	691	9071	rev
2656	176.H11.sp6:134606	ANK	207	290	4450	for
2555	180.C9.sp6:135947	asp	156	670	6710	for
3632	368.H11.sp6:141405	asp	136	1226	6880	rev
4205	368.B5.sp6:141327	asp	309	806	6073	for
4251	369.D6.sp6:141546	asp	434	1332	6263	rev
4253	396.F9.sp6:149544	asp	97	1106	5999	rev
4261	216.G10.sp6:139247	asp	74	703	6188	rev
4365	122.H12.sp6:132168	asp	152	1040	6183	rev
4498	80.H6.sp6:130297	asp	61	418	5944	rev
4664	172.E5.sp6:133929	asp	219	976	6434	for
4718	185.D9.sp6:135762	asp	31	872	5944	rev
4733	185.D9.sp6:135762	asp	31	872	5944	rev
4746	176.B10.sp6:134533	asp	253	1446	6079	rev

SEQ ID NO:	Validation Sequence	Biological Activity (Profile)	Start	Stop	Score	Direction
4822	177.F3.sp6:134766	asp	0	894	6336	rev
4854	184.F11.sp6:135596	asp	61	737	6416	rev
4856	367.H11.sp6:141212	asp	81	1187	6182	rev
4929	180.E6.sp6:135968	asp	81	706	6150	for
4931	180.E6.sp6:135968	asp	81	706	6150	for
2723	180.F2.sp6:135976	ATPases	135	627	11664	for
2842	217.H11.sp6:139452	ATPases	2	701	5972	for
3019	216.B1.sp6:139178	ATPases	170	616	6150	for
3046	121.B8.sp6:131900	ATPases	13	635	5867	rev
3190	80.D2.sp6:130245	ATPases	13	386	6068	for
3290	176.C6.sp6:134541	ATPases	85	579	5883	for
3670	369.C10.sp6:141538	ATPases	329	730	6206	for
3998	394.H8.sp6:149183	ATPases	21	571	5954	rev
4119	218.F11.sp6:138852	ATPases	313	816	6057	for
4159	219.A7.sp6:138980	ATPases	88	662	6145	for
4223	368.F9.sp6:141379	ATPases	178	648	5937	for
4384	181.G11.sp6:135354	ATPases	362	769	5900	rev
4473	369.B4.sp6:141520	ATPases	4	412	14130	for
4540	218.C8.sp6:138813	ATPases	12	576	5782	rev
4560	404.G6.sp6:162933	ATPases	86	605	6001	rev
4689	367.H8.sp6:141209	ATPases	17	476	5905	rev
4785	184.E5.sp6:135578	ATPases	184	632	5943	for
4792	184.C6.sp6:135555	ATPases	333	813	5773	for
4847	184.B11.sp6:135548	ATPases	14	498	6140	for
5041	377.C1.sp6:141918	ATPases	4	655	5933	for
3404	176.F10.sp6:134581	Bcl-2	69	356	16419	for
4036	367.F5.sp6:141182	bromodomain	40	210	8810	for
4489	369.D3.sp6:141543	bromodomain	63	230	10270	for
3408	172.E1.sp6:133925	BZIP	146	298	4066	for
3951	393.G5.sp6:148976	BZIP	116	304	5931	for
4850	172.E9.sp6:133933	BZIP	91	260	4366	for
3618	370.B12.sp6:141721	cyclin	118	324	8980	for
3895	395.G6.sp6:149361	cyclin	11	281	6930	for
4536	395.G8.sp6:149363	cyclin	12	279	5950	for
4455	99.F5.sp6:131294	Cys-protease	72	348	18479	for
4684	180.D1.sp6:135951	Cys-protease	38	992	10103	rev
4688	180.D1.sp6:135951	Cys-protease	38	992	10103	rev
4801	177.E4.sp6:134755	Cys-protease	48	326	19999	for
4659	100.G6.sp6:131499	DAG_PE_bind	605	702	6290	rev
4821	377.C8.sp6:141925	Dead_box_helic	172	828	7867	rev
5083	216.A1.sp6:139166	Dead_box_helic	44	589	26532	for
2734	177.G4.sp6:134779	EFhand	79	153	3780	for
2893	185.A1.sp6:135718	EFhand	287	358	2580	rev
3775	377.A5.sp6:141898	EFhand	477	563	3010	for
4056	367.B7.sp6:141136	EFhand	225	272	2500	rev
4152	218.B10.sp6:138803	EFhand	40	114	2640	rev
4153	218.B10.sp6:138803	EFhand	40	114	2640	rev
4154	218.C10.sp6:138815	EFhand	39	113	2640	rev
4905	393.H12.sp6:148995	EFhand	145	231	4640	for
4943	219.A9.sp6:138982	EFhand	685	750	2550	rev

SEQ ID NO:	Validation Sequenc	Biological Activity (Profile)	Start	Stop	Sc re	Directi n
2849	218.B5.sp6:138798	Ets_Nterm	340	531	10400	for
2728	180.A2.sp6:135916	FNtypeII	291	423	6400	rev
3018	216.C1.sp6:139190	FNtypeII	501	634	6460	for
4496	218.G1.sp6:138854	FNtypeII	20	141	6180	rev
4914	393.H8.sp6:148991	FNtypeII	448	576	6110	for
2504	181.C3.sp6:135298	G-alpha	66	715	8084	rev
3290	176.C6.sp6:134541	G-alpha	62	690	9062	for
4288	121.B4.sp6:131896	G-alpha	46	447	21415	for
4444	217.D12.sp6:139405	G-alpha	15	702	40404	for
4562	404.B7.sp6:162874	G-alpha	120	682	8424	for
2503	180.A11.sp6:135925	helicase_C	165	479	4494	for
4469	369.C4.sp6:141532	helicase_C	559	756	3732	rev
5020	185.D12.sp6:135765	helicase_C	381	534	5000	for
4241	396.H8.sp6:149567	homeobox	80	230	5170	for
2550	180.E5.sp6:135967	mkk	342	612	5791	for
3407	172.F1.sp6:133937	mkk	94	669	5688	rev
3451	123.A2.sp6:132266	mkk	26	378	7889	for
3600	394.B3.sp6:149106	mkk	32	782	9544	for
3646	370.H4.sp6:141785	mkk	18	307	9394	for
3680	369.G11.sp6:141587	mkk	182	725	5375	for
4175	219.H10.sp6:139067	mkk	280	723	15454	for
4205	368.B5.sp6:141327	mkk	249	725	5502	for
4278	181.C9.sp6:135304	mkk	168	880	5551	rev
4322	121.F6.sp6:131946	mkk	111	730	5399	for
4777	177.E2.sp6:134753	mkk	288	636	5720	rev
4482	100.D2.sp6:131459	PDEase	849	1195	5945	for
2578	181.H11.sp6:135366	protkinase	116	710	5531	for
2712	177.G7.sp6:134782	protkinase	6	511	5445	for
2835	218.C1.sp6:138806	protkinase	127	747	5492	for
2843	218.E1.sp6:138830	protkinase	64	726	5592	rev
2971	217.F4.sp6:139421	protkinase	83	702	5818	rev
3009	217.A4.sp6:139361	protkinase	57	682	5395	rev
3084	121.E2.sp6:131930	protkinase	69	658	5593	rev
3226	100.D8.sp6:131465	protkinase	174	620	5453	for
3274	100.C3.sp6:131448	protkinase	228	736	5616	for
3356	172.B5.sp6:133893	protkinase	148	715	5381	for
3377	172.B6.sp6:133894	protkinase	119	775	5616	for
3451	123.A2.sp6:132266	protkinase	24	384	9797	for
3600	394.B3.sp6:149106	protkinase	357	780	11395	for
3635	377.G11.sp6:141976	protkinase	117	739	5992	for
3646	370.H4.sp6:141785	protkinase	24	275	8338	for
3665	370.F2.sp6:141759	protkinase	33	800	5658	for
3669	369.B10.sp6:141526	protkinase	1	482	5504	rev
3700	369.D2.sp6:141542	protkinase	28	661	5428	for
3710	369.G6.sp6:141582	protkinase	71	631	5751	for
3791	396.C11.sp6:149510	protkinase	27	709	5793	rev
3905	393.H7.sp6:148990	protkinase	88	680	5470	rev
3919	393.D10.sp6:148945	protkinase	72	594	5617	for
4044	367.G4.sp6:141193	protkinase	30	699	5439	for
4072	368.B2.sp6:141324	protkinase	44	800	5556	for

SEQ ID NO:	Validati n Sequence	Biological Activity (Profile)	Start	Stop	Score	Direction
4117	218.D11.sp6:138828	protkinase	38	781	6423	for
4175	219.H10.sp6:139067	protkinase	277	717	15720	for
4373	216.E5.sp6:139218	protkinase	115	710	5537	for
4569	100.C10.sp6:131455	protkinase	56	783	5556	rev
4755	370.F4.sp6:141761	protkinase	39	803	5635	for
4760	370.F3.sp6:141760	protkinase	188	775	5771	for
4807	184.H3.sp6:135612	protkinase	23	699	5515	for
5059	180.B5.sp6:135931	protkinase	182	671	5718	rev
5102	393.F4.sp6:148963	protkinase	28	650	5345	for
3671	369.D10.sp6:141550	ras	12	332	9802	for
3936	393.A3.sp6:148902	Thioredox	0	263	5887	rev
3927	393.F11.sp6:148970	TNFR_c6	151	261	6445	for
2956	184.E10.sp6:135583	transmembrane4	19	483	8339	rev
2981	217.E6.sp6:139411	transmembrane4	83	728	8417	for
3836	396.C9.sp6:149508	transmembrane4	300	924	9444	rev
4038	367.A6.sp6:141123	transmembrane4	32	495	8407	rev
4364	123.A1.sp6:132265	transmembrane4	1289	1548	8114	rev
4406	122.C1.sp6:132097	transmembrane4	6	535	8122	for
4431	122.E4.sp6:132124	transmembrane4	10	530	8829	for
4441	99.F7.sp6:131296	transmembrane4	613	1253	9443	rev
4442	99.F7.sp6:131296	transmembrane4	613	1253	9443	rev
4653	100.D7.sp6:131464	transmembrane4	335	1207	8255	rev
4654	100.D7.sp6:131464	transmembrane4	335	1207	8255	rev
4710	367.H9.sp6:141210	transmembrane4	398	1130	8352	rev
4944	180.H7.sp6:136005	transmembrane4	356	983	8356	rev
3381	176.D9.sp6:134556	trypsin	164	764	9670	rev
4684	180.D1.sp6:135951	trypsin	371	1229	10479	rev
4688	180.D1.sp6:135951	trypsin	371	1229	10479	rev
2754	177.H6.sp6:134793	WD_domain	345	437	6510	for
3046	121.B8.sp6:131900	WD_domain	98	193	6400	for
3227	100.B10.sp6:131443	WD_domain	544	642	6590	for
4243	121.A8.sp6:131888	WD_domain	93	188	6400	for
5046	185.F10.sp6:135787	WD_domain	382	480	5880	for
3129	121.E12.sp6:131940	Wnt_dev_sign	101	821	12160	rev
3173	99.G6.sp6:131307	Wnt_dev_sign	49	880	12334	rev
3390	176.C9.sp6:134544	Wnt_dev_sign	249	854	11038	rev
3391	176.C9.sp6:134544	Wnt_dev_sign	249	854	11038	rev
3656	370.G6.sp6:141775	Wnt_dev_sign	211	785	11490	rev
3836	396.C9.sp6:149508	Wnt_dev_sign	282	1017	12318	rev
4253	396.F9.sp6:149544	Wnt_dev_sign	482	1298	11217	rev
4330	122.A2.sp6:132074	Wnt_dev_sign	94	933	12383	rev
4359	123.B2.sp6:132278	Wnt_dev_sign	538	1435	11785	for
4364	123.A1.sp6:132265	Wnt_dev_sign	760	1544	12660	rev
4375	122.G10.sp6:132154	Wnt_dev_sign	29	884	11603	rev
4385	122.A2.sp6:132074	Wnt_dev_sign	94	933	12383	rev
4409	121.F12.sp6:131952	Wnt_dev_sign	9	734	11167	rev
4441	99.F7.sp6:131296	Wnt_dev_sign	560	1399	13749	rev
4442	99.F7.sp6:131296	Wnt_dev_sign	560	1399	13749	rev
4535	395.F10.sp6:149353	Wnt_dev_sign	100	907	11535	rev
4586	123.A4.sp6:132268	Wnt_dev_sign	80	1122	11249	rev

SEQ ID NO:	Validation Sequence	Biological Activity (Profil)	Start	Stop	Score	Direction
4605	404.D5.sp6:162896	Wnt_dev_sign	31	816	11304	rev
4653	100.D7.sp6:131464	Wnt_dev_sign	467	1314	11882	rev
4654	100.D7.sp6:131464	Wnt_dev_sign	467	1314	11882	rev
4665	177.B11.sp6:134726	Wnt_dev_sign	137	1266	12708	rev
4668	177.B11.sp6:134726	Wnt_dev_sign	137	1266	12708	rev
4682	177.B11.sp6:134726	Wnt_dev_sign	137	1266	12708	rev
4710	367.H9.sp6:141210	Wnt_dev_sign	692	1481	12886	rev
4718	185.D9.sp6:135762	Wnt_dev_sign	129	890	11145	rev
4724	377.D2.sp6:141931	Wnt_dev_sign	400	1227	11044	rev
4733	185.D9.sp6:135762	Wnt_dev_sign	129	890	11145	rev
4856	367.H11.sp6:141212	Wnt_dev_sign	295	1669	13366	rev
4866	377.D4.sp6:141933	Wnt_dev_sign	549	1380	14522	rev
4925	219.B12.sp6:138997	Wnt_dev_sign	312	1214	13188	rev
4959	219.B12.sp6:138997	Wnt_dev_sign	312	1214	13188	rev
3409	172.D1.sp6:133913	Y_phosphatase	476	804	6932	for
3418	123.F9.sp6:132333	Y_phosphatase	28	439	6096	rev
3419	123.F9.sp6:132333	Y_phosphatase	28	439	6096	rev
3657	370.H6.sp6:141787	Y_phosphatase	148	554	6481	for
3804	404.B10.sp6:162877	Y_phosphatase	104	466	6446	rev
3806	404.D10.sp6:162901	Y_phosphatase	9	614	6516	for
3974	395.F2.sp6:149345	Y_phosphatase	164	645	6093	rev
4238	121.E9.sp6:131937	Y_phosphatase	240	777	6147	rev
4263	216.F10.sp6:139235	Y_phosphatase	21	504	6342	for
4343	122.E9.sp6:132129	Y_phosphatase	381	807	6036	rev
4363	123.B1.sp6:132277	Y_phosphatase	61	510	6229	rev
4434	219.F4.sp6:139037	Y_phosphatase	2	261	10353	for
4473	369.B4.sp6:141520	Y_phosphatase	231	768	6110	rev
4629	404.E11.sp6:162914	Y_phosphatase	580	920	6005	rev
5094	217.A3.sp6:139360	Y_phosphatase	263	622	6222	rev
2738	177.A6.sp6:134709	Zincfing_C2H2	65	127	4380	for
2760	177.A6.sp6:134709	Zincfing_C2H2	65	127	4380	for
2832	218.B2.sp6:138795	Zincfing_C2H2	94	156	4940	for
3736	377.H8.sp6:141985	Zincfing_C2H2	495	557	4850	for
3762	377.G2.sp6:141967	Zincfing_C2H2	52	114	4380	for
3763	377.G2.sp6:141967	Zincfing_C2H2	52	114	4380	for
4794	377.G4.sp6:141969	Zincfing_C2H2	247	308	3930	for
5090	185.C4.sp6:135745	Zincfing_C2H2	238	300	4540	for
3774	377.E4.sp6:141945	Zincfing_C3HC4	128	244	9335	for
4477	181.E3.sp6:135322	Zincfing_C3HC4	321	445	8221	for

Table 19. Polynucleotides Specifically Expressed in Colon

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
3	RTA00000197AF.e.24.1	39250	2	0	0	0	0	0	0	0
7	RTA00000197AR.e.12.1	22095	3	0	0	0	0	0	0	0
16	RTA00000196AF.e.16.1	39252	2	0	0	0	0	0	0	0
18	RTA00000196AF.c.17.1	39602	2	0	0	0	0	0	0	0
21	RTA00000131A.g.19.2	36535	2	0	0	0	0	0	0	0
22	RTA00000187AR.o.10.2	8984	4	3	0	0	0	2	0	0
23	RTA00000198R.b.08.1	22636	3	0	0	0	0	0	0	0
26	RTA00000200R.g.09.1	22785	3	0	0	0	0	0	0	0
29	RTA00000200AF.b.19.1	22847	3	0	0	0	0	0	0	0
31	RTA00000200F.m.15.1	22601	3	0	0	0	1	0	0	0
37	RTA00000181AF.n.15.2	86128	1	0	0	0	0	0	0	0
38	RTA00000196R.k.07.1	22443	2	0	0	0	0	0	0	1
40	RTA00000200AR.e.02.1	36059	2	0	0	0	1	1	1	0
48	RTA00000177AR.a.23.5	6995	4	2	0	0	0	0	0	0
49	RTA00000198R.o.05.1	26702	2	0	0	0	0	0	0	0
50	RTA00000201R.a.02.1	35362	2	0	0	0	0	0	0	0
61	RTA00000197AF.h.11.1	22264	3	0	0	0	0	0	0	0
66	RTA00000199F.c.09.2	16824	3	1	0	0	0	0	0	0
75	RTA00000180AR.h.19.2	84182	1	0	0	0	0	0	0	0
78	RTA00000199R.f.09.1	22907	3	0	0	0	0	0	0	0
79	RTA00000199AF.p.4.1	10282	3	3	0	0	0	0	0	0
85	RTA00000200R.o.03.1	22807	3	0	0	0	0	0	0	0
86	RTA00000189AF.l.22.1	33333	1	1	0	0	0	0	0	0
87	RTA00000195AF.d.20.1	37574	2	0	0	0	0	0	0	0
92	RTA00000198AF.j.18.1	22759	3	0	0	0	0	0	0	0
95	RTA00000180AF.g.3.1	9024	5	2	0	0	0	0	0	0
102	RTA00000199R.j.08.1	37844	2	0	0	0	0	0	0	0
103	RTA00000199F.e.10.1	22906	3	0	0	0	0	0	1	0
105	RTA00000179AF.g.12.3	36390	2	0	0	0	0	0	0	0
108	RTA00000183AR.h.23.2	18957	3	0	0	0	0	0	0	0
109	RTA00000197AF.d.12.1	39546	2	0	0	0	0	0	0	0
116	RTA00000181AR.k.24.3	7005	8	2	0	0	0	0	0	0
119	RTA00000181AR.k.24.2	7005	8	2	0	0	0	0	0	0
124	RTA00000199AR.m.06.1	19122	3	0	0	0	0	0	0	0
129	RTA00000134A.d.10.1	18957	3	0	0	0	0	0	0	0
137	RTA00000181AF.m.4.3	13238	4	1	0	0	0	0	0	0
141	RTA00000196AF.c.6.1	23148	3	0	0	0	0	0	0	0
142	RTA00000198AF.k.19.1	75879	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
143	RTA00000199R.h.09.1	76020	1	0	0	0	0	0	0	0
144	RTA00000198AF.o.18.1	13018	4	0	0	0	1	0	0	0
148	RTA00000199F.h.17.2	36254	2	0	0	0	0	0	0	0
149	RTA00000181AR.h.06.3	87226	1	0	0	0	0	0	0	0
166	RTA00000198AF.f.21.1	22676	3	0	0	0	0	0	0	0
173	RTA00000200AR.b.07.1	17125	4	0	0	0	0	0	0	0
178	RTA00000200F.o.03.1	22807	3	0	0	0	0	0	0	0
180	RTA00000199AF.j.12.1	22461	3	0	0	0	0	0	0	0
185	RTA00000195AF.d.4.1	22766	3	0	0	0	0	0	0	0
194	RTA00000200R.k.01.1	40049	2	0	0	0	0	0	0	0
195	RTA00000198AF.c.10.1	77149	1	0	0	0	0	0	0	0
198	RTA00000197AR.e.07.1	86969	1	0	0	0	0	0	0	0
199	RTA00000199R.c.09.1	16824	3	1	0	0	0	0	0	0
206	RTA00000181AF.o.04.2	22205	3	0	0	0	0	0	0	0
207	RTA00000199AF.l.19.1	22460	3	0	0	0	0	0	0	0
208	RTA00000198AF.h.22.1	22366	2	1	0	0	0	0	0	0
211	RTA00000199AF.m.15.1	10101	3	0	0	0	0	0	0	0
212	RTA00000197AF.j.9.1	13236	4	1	0	0	0	0	0	0
230	RTA00000185AR.b.18.1	12171	3	2	0	0	0	0	0	0
235	RTA00000201AF.a.02.1	35362	2	0	0	0	0	0	0	0
236	RTA00000183AR.h.23.1	18957	3	0	0	0	0	0	0	0
238	RTA00000187AR.k.12.1	78415	1	0	0	0	0	0	0	0
242	RTA00000198AF.m.17.1	77992	1	0	0	0	0	0	0	0
243	RTA00000181AF.m.15.3	12081	4	0	0	0	0	0	0	0
248	RTA00000198R.c.14.1	39814	2	0	0	0	0	0	0	0
249	RTA00000200R.o.03.2	22807	3	0	0	0	0	0	0	0
251	RTA00000192AF.n.13.1	8210	2	6	0	0	0	0	0	0
256	RTA00000184AR.e.15.1	16347	4	0	0	0	0	0	0	0
260	RTA00000198R.m.17.1	77992	1	0	0	0	0	0	0	0
270	RTA00000178R.l.08.1	39648	2	0	0	0	0	0	0	0
278	RTA00000198AF.p.16.1	71877	1	0	0	0	0	0	0	0
280	RTA00000193AF.b.18.1	7542	8	0	0	2	1	0	1	0
284	RTA00000199F.d.10.2	22049	3	0	0	0	0	0	0	0
287	RTA00000200AF.b.07.1	17125	4	0	0	0	0	0	0	0
288	RTA00000181AR.i.06.3	19119	3	0	0	0	0	0	0	0
289	RTA00000196F.k.07.1	22443	2	0	0	0	0	0	0	1
294	RTA00000198AF.k.23.1	8995	2	5	0	0	0	0	0	0
296	RTA00000196AF.f.20.1	22774	3	0	0	0	0	0	0	0
300	RTA00000195AF.c.12.1	37582	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
302	RTA00000186AF.d.1.2	40044	2	0	0	1	0	0	0	0
307	RTA00000200F.n.05.2	18989	3	0	0	0	0	0	0	0
308	RTA00000178AF.j.20.1	15066	4	0	0	0	0	0	0	0
310	RTA00000188AF.m.08.1	22155	3	0	0	0	0	0	0	0
315	RTA00000199R.d.23.1	37477	2	0	0	0	0	0	0	0
319	RTA00000200F.n.05.1	18989	3	0	0	0	0	0	0	0
320	RTA00000196AF.m.13.1	16290	4	0	0	0	0	0	0	0
325	RTA00000182AF.d.18.4	37435	2	0	0	0	0	0	0	0
328	RTA00000200AF.g.09.1	22785	3	0	0	0	0	0	0	0
330	RTA00000177AR.m.17.4	14391	3	1	0	0	0	0	0	0
331	RTA00000197AR.c.20.1	16282	4	0	0	0	0	0	0	0
337	RTA00000177AR.m.17.3	14391	3	1	0	0	0	0	0	0
342	RTA00000196AF.d.10.1	22256	3	0	0	0	0	0	0	0
343	RTA00000201F.a.18.1	16837	2	2	0	0	0	0	0	0
344	RTA00000198AF.o.02.1	68756	1	0	0	0	0	0	0	0
345	RTA00000187AF.h.21.1	39171	2	0	0	0	0	0	0	0
347	RTA00000199F.b.03.2	38340	2	0	0	0	0	0	0	0
358	RTA00000198AF.g.7.1	13386	3	2	0	0	0	0	0	0
362	RTA00000197AR.c.24.1	82498	1	0	0	0	0	0	0	0
371	RTA00000197F.e.7.1	86969	1	0	0	0	0	0	0	0
378	RTA00000181AF.k.24.3	7005	8	2	0	0	0	0	0	0
382	RTA00000200AF.j.6.1	22902	3	0	0	0	0	0	0	0
384	RTA00000196AF.h.17.1	39215	2	0	0	0	0	0	0	0
392	RTA00000185AF.b.11.2	9024	5	2	0	0	0	0	0	0
397	RTA00000198AF.b.22.1	38956	2	0	0	0	0	0	0	0
399	RTA00000186AF.m.15.2	40122	2	0	0	0	0	0	0	0
406	RTA00000199F.f.09.2	22907	3	0	0	0	0	0	0	0
408	RTA00000183AR.l.15.1	39383	2	0	0	0	0	0	0	0
413	RTA00000200F.a.12.1	16751	4	0	0	0	0	0	0	0
416	RTA00000199F.a.5.1	22134	3	0	0	0	0	0	0	0
418	RTA00000187AR.k.01.1	78356	1	0	0	0	0	0	0	0
424	RTA00000187AR.j.24.1	78356	1	0	0	0	0	0	0	0
426	RTA00000199AF.o.19.1	36927	2	0	0	0	0	0	0	0
429	RTA00000196F.i.19.1	39498	2	0	0	0	0	0	0	0
430	RTA00000198R.k.23.1	8995	2	5	0	0	0	0	0	0
432	RTA00000198AF.o.05.1	26702	2	0	0	0	0	0	0	0
433	RTA00000198R.j.18.1	22759	3	0	0	0	0	0	0	0
435	RTA00000182AR.c.22.1	16283	3	0	0	0	0	0	0	0
438	RTA00000180AR.g.03.4	9024	5	2	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
451	RTA00000200AF.b.20.1	40403	2	0	0	0	0	0	0	0
455	RTA00000198AF.d.12.1	21142	2	1	0	0	0	0	0	0
456	RTA00000200AF.b.12.1	22053	3	0	0	0	0	0	0	0
457	RTA00000191AR.l.7.2	14391	3	1	0	0	0	0	0	0
461	RTA00000190AF.e.13.1	38961	2	0	0	0	0	0	0	0
462	RTA00000196AF.n.17.1	12477	4	1	0	0	0	0	0	0
467	RTA00000195AF.b.19.1	77678	1	0	0	0	0	0	0	0
475	RTA00000187AR.m.3.3	17055	4	0	0	0	0	0	0	0
476	RTA00000200R.g.15.1	22898	3	0	0	0	0	0	0	0
482	RTA00000187AF.j.7.1	78091	1	0	0	0	0	0	0	0
485	RTA00000196AF.c.14.1	23105	3	0	0	0	0	0	0	0
486	RTA00000190AR.p.22.2	16368	4	0	0	0	0	0	0	0
492	RTA00000198AF.b.8.1	22636	3	0	0	0	0	0	0	0
493	RTA00000177AF.m.17.1	14391	3	1	0	0	0	0	0	0
494	RTA00000200AF.k.1.1	40049	2	0	0	0	0	0	0	0
498	RTA00000190AF.h.12.1	12977	5	0	0	0	0	0	0	0
499	RTA00000199F.b.22.2	17018	4	0	0	0	0	0	0	0
508	RTA00000187AF.i.14.2	19406	2	1	0	0	0	0	0	0
511	RTA00000196AF.g.10.1	12498	3	1	1	0	0	0	0	0
517	RTA00000184AF.e.14.1	16347	4	0	0	0	0	0	0	0
522	RTA00000178AR.h.17.2	23824	2	1	0	0	0	0	0	0
531	RTA00000195F.a.3.1	27179	2	0	0	0	0	0	0	0
544	RTA00000196F.j.13.1	23170	3	0	0	0	0	0	0	0
547	RTA00000196AF.g.8.1	39665	2	0	0	0	0	0	0	0
549	RTA00000198AF.c.16.1	26801	2	0	0	0	0	0	0	0
553	RTA00000201F.b.22.1	35728	2	0	0	0	0	0	0	1
559	RTA00000197AF.p.20.1	22795	3	0	0	0	0	0	0	0
563	RTA00000192AR.o.16.2	9061	5	2	0	0	0	0	0	0
565	RTA00000191AF.c.10.1	40422	2	0	0	0	0	0	0	0
568	RTA00000196AF.p.01.2	87143	1	0	0	0	0	0	0	0
578	RTA00000180AF.g.17.1	16653	3	1	0	0	0	0	0	0
583	RTA00000190AR.h.12.2	12977	5	0	0	0	0	0	0	0
585	RTA00000198AF.n.18.1	16715	3	1	0	0	0	0	0	0
586	RTA00000199R.o.11.1	23172	3	0	0	0	0	0	0	0
588	RTA00000191AF.b.4.1	14936	3	0	0	0	0	0	0	0
589	RTA00000192AF.l.1.1	16392	3	0	0	0	0	0	0	0
593	RTA00000196R.c.14.2	23105	3	0	0	0	0	0	0	0
595	RTA00000195R.a.06.1	35265	2	0	1	0	0	0	0	0
602	RTA00000195AF.b.21.1	39055	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
612	RTA00000197AR.e.22.1	78758	1	0	0	0	0	0	0	0
615	RTA00000197R.p.20.1	22795	3	0	0	0	0	0	0	0
618	RTA00000192AF.a.14.1	6874	6	3	0	0	1	0	0	0
623	RTA00000198R.b.24.1	19047	3	0	0	0	0	0	0	0
627	RTA00000199F.h.15.2	22269	3	0	0	0	0	0	0	0
628	RTA00000198AF.g.16.1	6602	1	1	0	0	0	0	0	0
634	RTA00000192AF.j.6.1	11494	4	0	0	0	0	0	0	0
635	RTA00000181AF.p.7.3	38773	2	0	0	0	0	0	0	0
637	RTA00000200AF.g.15.1	22898	3	0	0	0	0	0	0	0
643	RTA00000184AF.c.9.1	16245	4	0	0	0	0	0	0	0
645	RTA00000177AF.k.9.1	16245	4	0	0	0	0	0	0	0
649	RTA00000190AR.l.19.2	88204	1	0	0	0	0	0	0	0
662	RTA00000201R.a.15.1	57347	1	0	0	0	0	0	0	0
664	RTA00000195R.a.23.1	86432	1	0	0	0	0	0	0	0
670	RTA00000186AF.p.17.3	38383	2	0	0	0	0	0	0	0
674	RTA00000197AR.e.24.1	39250	2	0	0	0	0	0	0	0
683	RTA00000187AR.j.01.1	79028	1	0	0	0	0	0	0	0
686	RTA00000201F.f.07.1	51116	1	0	0	0	0	0	0	0
694	RTA00000201R.c.19.1	22357	2	1	0	0	0	0	0	0
702	RTA00000177AR.b.8.5	17062	3	0	0	0	0	0	0	0
712	RTA00000201F.b.21.1	9071	3	4	0	0	0	0	0	0
717	RTA00000200F.o.10.2	36432	2	0	0	0	0	0	0	0
718	RTA00000196F.l.14.2	23144	3	0	0	0	0	0	0	0
725	RTA00000197AF.b.1.1	12134	1	1	0	0	0	0	0	0
733	RTA00000200AF.d.20.1	26600	2	0	0	0	0	0	0	0
743	RTA00000178AF.k.9.1	16342	3	0	0	0	0	0	0	0
748	RTA00000198AF.b.24.1	19047	3	0	0	0	0	0	0	0
757	RTA00000406F.d.16.1	15040	2	2	0	0	0	0	0	0
760	RTA00000408F.o.12.2	78578	1	0	0	0	0	0	0	0
761	RTA00000119A.j.15.1	79623	1	0	0	0	0	0	0	0
762	RTA00000413F.d.12.1	66467	1	0	0	0	0	0	0	0
763	RTA00000423F.i.12.1	9118	4	3	0	0	0	0	0	0
766	RTA00000411F.k.05.1	64777	1	0	0	0	0	0	0	0
769	RTA00000419F.b.09.1	78128	1	0	0	0	0	0	0	0
772	RTA00000411F.m.15.1	78014	1	0	0	0	0	0	0	0
774	RTA00000123A.k.23.1	80313	1	0	0	0	0	0	0	0
777	RTA00000130A.m.15.1	81630	1	0	0	0	0	0	0	0
778	RTA00000411F.k.20.1	64973	1	0	0	0	0	0	0	0
780	RTA00000418F.k.05.1	73021	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
781	RTA00000423F.h.18.1	37972	2	0	0	0	0	0	0	0
783	RTA00000422F.p.06.2	39282	2	0	0	0	0	0	0	0
784	RTA00000404F.n.16.2	39095	2	0	0	0	0	0	0	0
785	RTA00000411F.m.24.1	77568	1	0	0	0	0	0	0	0
786	RTA00000134A.j.10.1	81383	1	0	0	0	0	0	0	0
787	RTA00000409F.j.02.1	76417	1	0	0	0	0	0	0	0
788	RTA00000403F.j.15.1	23840	2	1	0	0	0	0	0	0
789	RTA00000411F.n.11.1	77276	1	0	0	0	0	0	0	0
790	RTA00000339F.i.13.1	5970	6	4	0	0	0	0	0	0
792	RTA00000406F.o.15.1	37482	2	0	0	0	0	0	0	0
793	RTA00000412F.g.04.2	64457	1	0	0	0	0	0	0	0
795	RTA00000352R.l.06.1	40343	2	0	0	0	0	0	0	0
796	RTA00000419F.b.12.1	63148	1	0	0	0	0	0	0	0
797	RTA00000423F.k.17.2	37512	2	0	0	0	0	0	0	0
799	RTA00000418F.k.14.1	76133	1	0	0	0	0	1	0	0
800	RTA00000409F.l.12.1	26755	1	0	0	0	0	0	0	0
801	RTA00000404F.c.20.1	39088	2	0	0	0	0	0	1	0
802	RTA00000423F.g.09.1	38958	2	0	0	0	0	0	0	0
804	RTA00000406F.d.12.1	38575	2	0	0	0	0	0	0	0
805	RTA00000411F.f.02.1	63386	1	0	0	0	0	0	0	0
806	RTA00000129A.n.21.1	79381	1	0	0	0	0	0	0	0
807	RTA00000409F.m.12.1	73490	1	0	0	0	0	0	0	0
808	RTA00000410F.c.04.1	74099	1	0	0	0	0	0	0	0
810	RTA00000406F.m.09.1	26891	2	0	0	0	0	0	0	0
811	RTA00000411F.b.06.1	77884	1	0	0	0	0	0	0	0
812	RTA00000409F.l.21.1	73143	1	0	0	0	0	0	0	0
818	RTA00000404F.l.20.2	38638	2	0	0	0	0	0	0	0
819	RTA00000413F.d.18.1	65305	1	0	0	0	0	0	0	0
820	RTA00000404F.p.04.2	39069	2	0	0	0	0	0	0	0
821	RTA00000405F.g.19.2	37150	2	0	0	0	0	0	0	0
822	RTA00000409F.a.22.1	75200	1	0	0	0	0	0	0	0
824	RTA00000405F.o.18.1	11016	4	2	0	0	0	0	0	0
829	RTA00000408F.e.22.2	26930	1	0	0	0	0	0	0	0
831	RTA00000413F.d.16.1	63331	1	0	0	0	0	0	0	0
834	RTA00000419F.g.08.1	66700	1	0	0	0	0	0	0	0
835	RTA00000122A.g.16.1	81366	1	0	0	0	0	0	0	0
836	RTA00000419F.c.16.1	65254	1	0	0	0	0	0	0	0
837	RTA00000411F.b.03.1	23634	1	2	0	0	0	0	0	0
842	RTA00000403F.l.20.1	18267	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
845	RTA00000411F.a.02.1	78537	1	0	0	0	0	0	0	0
847	RTA00000412F.l.04.1	66372	1	0	0	0	0	0	0	0
849	RTA00000406F.a.23.1	38712	2	0	0	0	0	0	0	0
851	RTA00000120A.n.19.3	80004	1	0	0	0	0	0	0	0
852	RTA00000403F.e.01.1	38965	2	0	0	0	0	0	0	0
853	RTA00000411F.l.03.1	62702	1	0	0	0	0	0	0	0
856	RTA00000121A.m.2.1	81064	1	0	0	0	0	0	0	0
858	RTA00000418F.j.12.1	73316	1	0	0	0	0	0	0	0
862	RTA00000125A.g.16.1	21497	2	1	0	0	0	0	0	0
863	RTA00000418F.o.18.1	78676	1	0	0	0	0	0	0	0
865	RTA00000408F.k.14.1	73856	1	0	0	0	0	0	0	0
871	RTA00000403F.o.15.1	39140	2	0	0	0	0	0	0	0
872	RTA00000341F.m.13.1	26502	1	0	0	0	0	0	0	0
873	RTA00000408F.h.03.1	78382	1	0	0	0	0	0	0	0
874	RTA00000423F.k.05.1	37472	2	0	0	0	0	0	0	0
876	RTA00000418F.p.19.1	78544	1	0	0	0	0	0	0	0
877	RTA00000420F.f.06.1	64812	1	0	0	0	0	0	0	0
878	RTA00000122A.j.18.1	81317	1	0	0	0	0	0	0	0
879	RTA00000420F.d.05.1	64432	1	0	0	0	0	0	0	0
880	RTA00000403F.m.18.1	39185	2	0	0	0	0	0	0	0
882	RTA00000411F.j.05.1	40709	1	1	0	0	0	0	0	0
883	RTA00000403F.a.04.1	23529	2	1	0	0	0	0	0	0
885	RTA00000406F.f.12.1	21895	2	1	0	0	0	0	0	0
886	RTA00000418F.g.22.1	74837	1	0	0	0	0	0	0	0
888	RTA00000404F.l.20.1	38638	2	0	0	0	0	0	0	0
889	RTA00000408F.i.08.2	75811	1	0	0	0	0	0	0	0
890	RTA00000122A.d.5.1	81155	1	0	0	0	0	0	0	0
894	RTA00000419F.b.19.1	65534	1	0	0	0	0	0	0	0
896	RTA00000418F.k.19.1	74932	1	0	0	0	0	0	0	0
900	RTA00000419F.g.12.1	66171	1	0	0	0	0	0	0	0
901	RTA00000404F.n.11.2	38001	2	0	0	0	0	0	0	0
904	RTA00000419F.o.24.1	65092	1	0	0	0	0	0	0	0
905	RTA00000419F.k.19.1	75447	1	0	0	0	0	0	0	0
907	RTA00000127A.i.20.1	81418	1	0	0	0	0	0	0	0
908	RTA00000422F.g.22.1	22561	3	0	0	0	0	0	0	0
910	RTA00000413F.h.13.1	65190	1	0	0	0	0	0	0	0
913	RTA00000348R.j.16.1	7005	8	2	0	0	0	0	0	0
916	RTA00000418F.n.22.1	79062	1	0	0	0	0	0	0	0
917	RTA00000406F.l.08.1	39016	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
920	RTA00000409F.j.07.1	75190	1	0	0	0	0	0	0	0
923	RTA00000411F.e.22.1	63638	1	0	0	0	0	0	0	0
924	RTA00000347F.a.17.1	16723	3	1	0	0	0	0	0	0
926	RTA00000404F.n.20.1	26865	2	0	0	0	0	0	0	0
929	RTA00000404F.b.02.1	38984	2	0	0	0	0	0	0	0
931	RTA00000403F.b.10.1	73268	1	0	0	0	0	0	0	0
932	RTA00000406F.i.12.1	39080	2	0	0	0	0	0	0	0
933	RTA00000406F.h.08.1	16228	2	2	0	0	0	0	0	0
934	RTA00000418F.i.19.1	79180	1	0	0	0	0	0	0	0
936	RTA00000412F.h.21.1	64348	1	0	0	0	0	0	0	0
938	RTA00000120A.g.18.1	81255	1	0	0	0	0	0	0	0
940	RTA00000423F.j.05.1	37958	2	0	0	0	0	0	0	0
941	RTA00000132A.k.6.1	81284	1	0	0	0	0	0	0	0
943	RTA00000406F.p.04.1	37458	2	0	0	0	0	0	0	0
944	RTA00000347F.a.13.1	22446	3	0	0	0	0	0	0	0
945	RTA00000419F.p.23.1	64748	1	0	0	0	0	0	0	0
946	RTA00000419F.d.17.1	64353	1	0	0	0	0	0	0	0
949	RTA00000124A.k.5.1	80252	1	0	0	0	0	0	0	0
950	RTA00000404F.h.22.1	18735	2	1	0	0	0	0	1	0
952	RTA00000410F.o.05.1	75262	1	0	0	0	0	0	0	0
953	RTA00000339R.l.14.1	19119	3	0	0	0	0	0	0	0
954	RTA00000403F.m.13.2	39077	2	0	0	0	0	0	0	0
957	RTA00000419F.g.22.1	64515	1	0	0	0	0	0	0	0
958	RTA00000404F.g.21.1	37947	2	0	0	0	0	0	0	0
960	RTA00000138A.n.4.1	21920	2	1	0	0	0	0	0	0
961	RTA00000410F.b.15.1	77100	1	0	0	0	0	0	0	0
963	RTA00000419F.j.23.1	74470	1	0	0	0	0	0	0	0
964	RTA00000411F.j.02.1	65310	1	0	0	0	0	0	0	0
965	RTA00000419F.p.24.1	63477	1	0	0	0	0	0	0	0
966	RTA00000404F.a.19.1	38624	2	0	0	0	0	0	0	0
973	RTA00000346F.e.13.1	74653	1	0	0	0	0	0	0	0
974	RTA00000419F.c.18.1	41394	1	1	0	0	0	0	0	0
978	RTA00000404F.e.22.1	11344	3	3	0	0	0	0	0	0
981	RTA00000125A.k.10.1	81644	1	0	0	0	0	0	0	0
982	RTA00000347F.c.06.1	18846	2	1	0	0	0	0	0	0
983	RTA00000411F.k.19.1	64200	1	0	0	0	0	0	0	0
984	RTA00000345F.i.09.1	27250	2	0	0	0	0	0	0	0
985	RTA00000423F.k.01.1	40426	2	0	0	0	0	0	0	0
986	RTA00000408F.d.06.1	78997	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
987	RTA00000128A.b.20.1	79761	1	0	0	0	0	0	0	0
989	RTA00000195AF.d.4.1	22766	3	0	0	0	0	0	0	0
991	RTA00000403F.h.12.1	15205	2	1	0	0	0	0	0	0
992	RTA00000119A.j.22.1	80336	1	0	0	0	0	0	0	0
995	RTA00000126A.n.7.2	79557	1	0	0	1	0	0	0	0
997	RTA00000404F.j.08.1	39066	2	0	0	0	0	0	0	0
998	RTA00000410F.c.14.1	77809	1	0	0	0	0	0	0	0
999	RTA00000120A.g.23.1	81189	1	0	0	0	0	0	0	0
1000	RTA00000195AF.d.20.1	37574	2	0	0	0	0	0	0	0
1002	RTA00000412F.j.17.1	64071	1	0	0	0	0	0	0	0
1004	RTA00000119A.j.10.1	79646	1	0	0	0	0	0	0	0
1010	RTA00000419F.o.16.1	62867	1	0	0	0	0	0	0	0
1012	RTA00000411F.c.17.1	77664	1	0	0	0	0	0	0	0
1013	RTA00000406F.k.15.1	38549	2	0	0	0	0	0	0	0
1014	RTA00000406F.a.02.1	37744	2	0	0	0	0	0	0	0
1016	RTA00000341F.b.06.1	17008	4	0	0	0	0	0	0	0
1017	RTA00000409F.n.14.1	78190	1	0	0	0	0	0	0	0
1019	RTA00000345F.j.08.1	16731	3	1	0	0	0	0	0	0
1021	RTA00000419F.g.15.1	32519	1	1	0	0	0	0	0	0
1022	RTA00000423F.a.19.1	21396	1	2	0	0	0	0	0	0
1024	RTA00000422F.e.08.1	39020	2	0	0	0	0	0	0	0
1025	RTA00000411F.d.15.1	74890	1	0	0	0	0	0	0	0
1027	RTA00000411F.l.15.1	66704	1	0	0	0	0	0	0	0
1029	RTA00000405F.e.08.1	37916	2	0	0	0	1	0	0	0
1030	RTA00000353R.j.24.1	23089	3	0	0	0	0	0	0	0
1032	RTA00000418F.o.06.1	75930	1	0	0	0	0	0	0	0
1033	RTA00000404F.c.10.1	23534	2	1	0	0	0	0	0	0
1034	RTA00000418F.i.21.1	78728	1	0	0	0	0	0	0	0
1036	RTA00000411F.l.13.1	43114	1	1	0	0	0	0	0	0
1037	RTA00000407F.a.24.1	37560	2	0	0	0	0	0	0	0
1038	RTA00000346F.n.06.1	12439	4	0	0	0	0	0	0	0
1039	RTA00000412F.l.21.1	65183	1	0	0	0	0	0	0	0
1040	RTA00000413F.i.02.1	65857	1	0	0	0	0	0	0	0
1041	RTA00000404F.i.19.1	38698	2	0	0	0	0	0	0	0
1043	RTA00000403F.a.11.1	73109	1	0	0	0	0	0	0	0
1045	RTA00000411F.k.16.1	64759	1	0	0	0	0	0	1	0
1046	RTA00000405F.c.01.1	19236	2	0	0	0	0	0	0	0
1047	RTA00000423F.i.18.1	14996	4	0	0	0	0	0	0	0
1050	RTA00000406F.a.07.1	26607	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1051	RTA00000347F.d.06.1	39122	2	0	0	0	0	0	0	0
1052	RTA00000419F.b.18.1	67034	1	0	0	0	0	0	0	0
1053	RTA00000406F.h.07.1	38003	2	0	0	0	0	0	0	0
1054	RTA00000405F.l.15.1	19575	2	1	0	0	0	0	0	0
1055	RTA00000406F.g.17.1	37979	2	0	0	0	0	0	0	0
1058	RTA00000130A.h.22.1	80933	1	0	0	0	0	0	0	0
1061	RTA00000404F.d.13.1	39036	2	0	0	0	0	0	0	0
1064	RTA00000340F.n.01.1	39081	2	0	0	0	0	0	0	0
1065	RTA00000419F.d.06.1	65496	1	0	0	0	0	0	0	0
1066	RTA00000419F.n.09.1	66070	1	0	0	0	0	0	0	0
1067	RTA00000399F.i.08.1	38927	2	0	0	0	0	0	0	0
1069	RTA00000423F.g.13.1	38028	2	0	0	0	0	0	0	0
1072	RTA00000195AF.b.21.1	39055	2	0	0	0	0	0	0	0
1073	RTA00000403F.h.05.1	39096	2	0	0	0	0	0	0	0
1075	RTA00000422F.p.07.2	39024	2	0	0	1	0	0	0	0
1078	RTA00000421F.n.19.1	16409	3	1	0	0	0	0	0	0
1080	RTA00000345F.k.21.1	40204	2	0	0	0	0	0	0	0
1082	RTA00000405F.a.11.1	39124	2	0	0	0	0	0	0	0
1084	RTA00000413F.e.16.1	63836	1	0	0	0	0	0	0	0
1086	RTA00000404F.o.18.2	39110	2	0	0	0	0	0	0	0
1087	RTA00000409F.i.24.1	76967	1	0	0	0	0	0	0	0
1091	RTA00000340F.n.13.1	17055	4	0	0	0	0	0	0	0
1092	RTA00000340F.p.04.1	78533	1	0	0	0	0	0	0	0
1093	RTA00000411F.c.05.1	73368	1	0	0	0	0	0	0	0
1097	RTA00000404F.i.02.1	39015	2	0	0	0	0	0	0	0
1099	RTA00000403F.m.15.2	26901	2	0	0	0	0	0	0	0
1100	RTA00000412F.h.23.2	65118	1	0	0	0	0	0	0	0
1101	RTA00000418F.j.08.1	73382	1	0	0	0	0	0	0	0
1102	RTA00000125A.n.4.1	81984	1	0	0	0	0	0	0	0
1103	RTA00000412F.l.19.1	65825	1	0	0	0	0	0	0	0
1105	RTA00000129A.p.3.1	32644	1	1	0	0	0	0	0	0
1106	RTA00000340F.p.20.1	17008	4	0	0	0	0	0	0	0
1107	RTA00000411F.a.10.1	73073	1	0	0	0	0	0	0	0
1108	RTA00000409F.n.17.1	76725	1	0	0	0	0	0	0	0
1109	RTA00000404F.c.03.2	39198	2	0	0	0	0	0	0	0
1110	RTA00000420F.a.19.1	34192	1	1	0	0	0	0	0	0
1114	RTA00000420F.d.12.1	64095	1	0	0	0	0	0	0	0
1115	RTA00000409F.j.19.1	73792	1	0	0	0	0	0	0	0
1116	RTA00000422F.d.16.1	39133	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1117	RTA00000418F.m.16.1	74986	1	0	0	0	0	0	0	0
1118	RTA00000405F.c.11.1	39068	2	0	0	0	0	0	0	0
1119	RTA00000404F.k.22.1	39084	2	0	0	0	0	0	0	0
1120	RTA00000418F.k.07.1	75067	1	0	0	0	0	0	0	0
1121	RTA00000403F.c.10.1	75261	1	0	0	0	0	0	0	0
1124	RTA00000410F.m.05.1	74964	1	0	0	0	0	0	0	0
1125	RTA00000405F.i.20.1	38532	2	0	0	0	0	0	0	0
1127	RTA00000408F.p.24.1	74286	1	0	0	0	0	0	0	0
1128	RTA00000418F.k.18.1	75385	1	0	0	0	0	0	0	0
1129	RTA00000422F.m.04.1	38702	2	0	0	0	0	0	0	0
1133	RTA00000403F.a.07.1	73559	1	0	0	0	0	0	0	0
1135	RTA00000403F.b.19.1	22327	2	1	0	0	0	0	0	0
1136	RTA00000418F.m.23.1	77195	1	0	0	0	0	0	0	0
1138	RTA00000404F.i.18.1	21912	2	1	0	0	0	0	0	0
1139	RTA00000422F.i.14.1	39300	2	0	0	0	0	0	0	0
1140	RTA00000418F.m.14.1	75711	1	0	0	1	0	0	0	0
1141	RTA00000406F.o.12.1	37459	2	0	0	0	0	0	0	0
1143	RTA00000411F.a.07.1	74547	1	0	0	0	0	0	0	0
1144	RTA00000411F.c.02.1	72852	1	0	0	0	0	0	0	0
1146	RTA00000130A.h.16.1	80761	1	0	0	0	0	0	0	0
1147	RTA00000410F.p.23.1	73948	1	0	0	0	0	0	0	0
1148	RTA00000418F.m.24.1	77114	1	0	0	0	0	0	0	0
1150	RTA00000408F.j.19.2	73752	1	0	0	0	0	0	0	0
1152	RTA00000118A.d.17.1	81921	1	0	0	0	0	0	0	0
1153	RTA00000407F.b.04.1	63221	1	0	0	0	0	0	0	0
1154	RTA00000411F.e.07.1	65008	1	0	0	0	0	0	0	0
1156	RTA00000132A.c.11.1	87278	1	0	0	0	0	0	0	0
1157	RTA00000420F.e.16.1	63639	1	0	0	0	0	0	0	0
1159	RTA00000404F.b.11.1	39079	2	0	0	0	0	0	0	0
1160	RTA00000418F.k.17.1	75390	1	0	0	0	0	0	0	0
1161	RTA00000129A.k.12.1	79322	1	0	0	0	0	0	0	0
1162	RTA00000340R.m.07.1	78415	1	0	0	0	0	0	0	0
1163	RTA00000405F.d.14.1	35209	2	0	0	0	0	0	1	0
1164	RTA00000406F.f.11.1	38601	2	0	0	0	0	0	0	0
1165	RTA00000120A.h.5.1	80344	1	0	0	0	0	0	0	0
1167	RTA00000411F.g.06.1	66065	1	0	0	0	0	0	0	0
1168	RTA00000408F.d.16.1	76318	1	0	0	0	0	0	0	0
1171	RTA00000404F.c.19.1	39026	2	0	0	0	0	0	0	1
1173	RTA00000410F.a.01.1	73354	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1174	RTA00000408F.h.08.1	74575	1	0	0	0	0	0	0	0
1175	RTA00000422F.b.16.1	17045	4	0	0	0	0	0	0	0
1176	RTA00000419F.f.10.1	66193	1	0	0	0	0	0	0	0
1177	RTA00000418F.l.04.1	74140	1	0	0	0	0	0	0	0
1178	RTA00000410F.a.16.1	73548	1	0	0	0	0	0	0	0
1179	RTA00000138A.e.13.1	79608	1	0	0	0	0	0	0	0
1180	RTA00000130A.b.5.1	79579	1	0	0	0	0	0	0	0
1181	RTA00000408F.j.15.2	74759	1	0	0	0	0	0	0	0
1182	RTA00000410F.m.20.1	74285	1	0	0	0	0	0	0	0
1185	RTA00000419F.e.04.1	62963	1	0	0	0	0	0	0	0
1187	RTA00000418F.g.05.1	73075	1	0	0	0	0	0	0	0
1188	RTA00000419F.n.02.1	65963	1	0	0	0	0	0	0	0
1191	RTA00000119A.m.15.1	80989	1	0	0	0	0	0	0	0
1194	RTA00000413F.g.23.1	40700	1	1	0	0	0	0	0	0
1195	RTA00000403F.a.18.1	75726	1	0	0	0	0	0	0	0
1196	RTA00000404F.m.20.2	39144	2	0	0	0	0	0	0	0
1199	RTA00000419F.h.04.1	65034	1	0	0	0	0	0	0	0
1200	RTA00000408F.d.12.1	75782	1	0	0	0	0	0	0	0
1201	RTA00000133A.m.19.2	80167	1	0	0	0	0	0	0	0
1206	RTA00000126A.o.22.1	81752	1	0	0	0	0	0	0	0
1207	RTA00000419F.n.13.1	66026	1	0	0	0	0	0	0	0
1208	RTA00000130A.h.13.1	80790	1	0	0	0	0	0	0	0
1212	RTA00000411F.m.19.1	74924	1	0	0	0	0	0	0	0
1214	RTA00000419F.k.06.1	78493	1	0	0	0	0	0	0	0
1216	RTA00000412F.d.16.1	26829	1	0	0	0	0	0	0	0
1217	RTA00000119A.j.23.1	79835	1	0	0	0	0	0	0	0
1219	RTA00000195AF.c.12.1	37582	2	0	0	0	0	0	0	0
1223	RTA00000423F.c.19.1	40472	2	0	0	0	0	0	0	0
1224	RTA00000405F.g.24.1	39076	2	0	0	0	0	0	0	0
1226	RTA00000419F.c.11.1	65504	1	0	0	0	0	0	0	0
1227	RTA00000135A.f.14.2	79969	1	0	0	0	0	0	0	0
1228	RTA00000403F.a.05.1	18808	1	1	0	0	0	0	0	0
1229	RTA00000405F.e.17.1	38662	2	0	0	0	0	0	0	0
1230	RTA00000411F.d.05.1	75812	1	0	0	0	0	0	0	0
1232	RTA00000418F.d.03.1	76824	1	0	0	0	0	0	0	0
1233	RTA00000418F.h.08.1	76401	1	0	0	0	0	0	0	0
1234	RTA00000418F.m.10.1	79110	1	0	0	0	0	0	0	0
1235	RTA00000411F.i.15.1	31612	1	1	0	0	0	0	0	0
1236	RTA00000413F.i.23.1	63073	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1237	RTA00000411F.e.24.1	64781	1	0	0	0	0	0	0	0
1238	RTA00000406F.g.22.1	38590	2	0	0	0	0	0	0	0
1239	RTA00000126A.n.13.2	79735	1	0	0	0	0	0	0	0
1240	RTA00000419F.a.02.1	77993	1	0	0	0	0	0	0	0
1241	RTA00000346F.l.13.1	7542	8	0	0	2	1	0	1	0
1245	RTA00000120A.d.15.1	80533	1	0	0	0	0	0	0	0
1246	RTA00000418F.f.21.1	75157	1	0	0	0	0	0	0	0
1248	RTA00000129A.d.1.2	80058	1	0	0	0	0	0	0	0
1251	RTA00000419F.m.20.1	76720	1	0	0	0	0	0	0	0
1253	RTA00000406F.e.15.1	39074	2	0	0	0	0	0	0	0
1255	RTA00000411F.c.10.1	73117	1	0	0	0	0	0	0	0
1259	RTA00000413F.d.05.1	64788	1	0	0	0	0	0	0	0
1260	RTA00000121A.o.3.1	81437	1	0	0	0	0	0	0	0
1262	RTA00000420F.e.02.1	40259	2	0	0	0	0	0	0	0
1268	RTA00000126A.k.7.2	79866	1	0	0	0	0	0	0	0
1270	RTA00000419F.l.03.1	79060	1	0	0	0	0	0	0	0
1272	RTA00000118A.a.2.1	38067	2	0	0	0	0	0	0	0
1273	RTA00000410F.m.18.1	76365	1	0	0	0	0	0	0	0
1275	RTA00000406F.c.20.1	38578	2	0	0	0	0	0	0	0
1276	RTA00000413F.b.14.1	66591	1	0	0	0	0	0	0	0
1277	RTA00000406F.c.18.1	14368	2	0	0	0	0	0	0	0
1278	RTA00000418F.j.09.1	76352	1	0	0	0	0	0	0	0
1279	RTA00000419F.f.23.1	65002	1	0	0	0	0	0	0	0
1281	RTA00000411F.a.05.1	76699	1	0	0	0	0	0	0	0
1282	RTA00000419F.m.21.1	77947	1	0	0	0	0	0	0	0
1283	RTA00000405F.n.16.1	21503	2	1	1	0	0	0	0	0
1284	RTA00000422F.o.19.2	13084	3	2	0	0	0	0	0	0
1285	RTA00000408F.n.02.2	76993	1	0	0	0	0	0	0	0
1290	RTA00000119A.g.7.1	83580	1	0	0	0	0	0	0	0
1291	RTA00000411F.i.02.1	66975	1	0	0	0	0	0	0	0
1292	RTA00000408F.l.09.1	75487	1	0	0	0	0	0	0	0
1293	RTA00000423F.g.04.1	23012	2	1	0	0	0	0	0	0
1295	RTA00000418F.i.18.1	78024	1	0	0	0	0	0	0	0
1296	RTA00000411F.h.15.1	65160	1	0	0	0	0	0	0	0
1297	RTA00000410F.i.19.1	78988	1	0	0	0	0	0	0	0
1298	RTA00000419F.k.24.1	75596	1	0	0	0	0	0	0	0
1301	RTA00000409F.i.09.1	75279	1	0	0	0	0	0	0	0
1302	RTA00000419F.h.02.1	63985	1	0	0	0	0	0	0	0
1303	RTA00000413F.b.12.1	64932	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1304	RTA00000121A.h.18.1	16376	4	0	0	0	0	0	0	0
1305	RTA00000411F.n.20.1	75816	1	0	0	0	0	0	0	0
1307	RTA00000411F.n.12.1	73308	1	0	0	0	0	0	0	0
1308	RTA00000408F.j.12.2	18226	1	0	0	0	0	0	0	0
1309	RTA00000409F.i.03.1	75968	1	0	0	0	0	0	0	0
1312	RTA00000409F.j.05.1	74128	1	0	0	0	0	0	0	0
1313	RTA00000419F.m.04.1	74367	1	0	0	0	0	0	0	0
1314	RTA00000418F.k.03.1	78901	1	0	0	0	0	0	0	0
1315	RTA00000419F.d.16.1	64357	1	0	0	0	0	0	0	0
1316	RTA00000420F.e.10.1	65899	1	0	0	0	0	0	0	0
1319	RTA00000418F.k.08.1	18259	1	0	0	0	0	0	0	0
1322	RTA00000410F.c.02.1	75055	1	0	0	0	0	0	0	0
1324	RTA00000403F.h.18.1	39241	2	0	0	0	0	0	0	0
1325	RTA00000405F.n.13.1	23810	2	1	0	0	0	0	0	0
1326	RTA00000355R.e.14.1	16837	2	2	0	0	0	0	0	0
1327	RTA00000422F.l.03.1	39147	2	0	0	0	0	0	0	0
1329	RTA00000403F.o.14.1	38971	2	0	0	0	0	0	0	0
1333	RTA00000127A.f.11.1	81463	1	0	0	0	0	0	0	0
1335	RTA00000403F.o.07.1	39037	2	0	0	0	0	0	0	0
1336	RTA00000403F.d.19.1	39243	2	0	0	0	0	0	0	0
1338	RTA00000406F.i.17.1	37902	2	0	0	0	0	0	0	0
1339	RTA00000418F.d.22.1	75324	1	0	0	0	0	0	0	0
1340	RTA00000340R.o.12.1	53732	1	0	0	0	0	0	0	0
1341	RTA00000125A.g.24.1	80397	1	0	0	0	0	0	0	0
1342	RTA00000130A.o.21.1	80218	1	0	0	0	0	0	0	0
1343	RTA00000420F.a.23.1	42158	1	1	0	0	0	0	0	0
1344	RTA00000411F.m.18.1	75629	1	0	0	0	0	0	0	0
1345	RTA00000407F.b.22.1	37487	2	0	0	0	0	0	0	0
1346	RTA00000409F.a.16.1	73990	1	0	0	0	0	0	0	0
1348	RTA00000341F.k.12.1	62985	1	0	0	0	0	0	0	0
1349	RTA00000129A.c.18.2	37216	2	0	0	0	0	0	0	0
1350	RTA00000410F.d.10.1	77561	1	0	0	0	0	0	0	0
1351	RTA00000351R.i.03.1	6874	6	3	0	0	1	0	0	0
1352	RTA00000135A.l.1.2	39426	2	0	0	0	0	0	0	0
1353	RTA00000420F.b.18.1	66136	1	0	0	0	0	0	0	0
1356	RTA00000403F.o.13.1	39049	2	0	0	0	0	0	0	0
1357	RTA00000411F.f.06.1	64186	1	0	0	0	0	0	0	0
1359	RTA00000351R.c.13.1	11476	6	0	0	0	0	0	0	0
1362	RTA00000420F.d.16.1	64485	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1363	RTA00000404F.i.12.1	39001	2	0	0	0	0	0	0	0
1364	RTA00000404F.o.10.2	16785	2	2	0	0	0	0	0	0
1365	RTA00000419F.d.07.1	21421	1	2	0	0	0	0	0	0
1366	RTA00000404F.p.02.2	39097	2	0	1	0	0	0	0	0
1367	RTA00000125A.k.14.1	79457	1	0	0	0	0	0	0	0
1368	RTA00000122A.j.22.1	81151	1	0	0	0	0	0	0	0
1369	RTA00000406F.i.13.1	37904	2	0	0	0	0	0	0	0
1370	RTA00000135A.b.23.1	35241	2	0	0	0	0	0	0	0
1373	RTA00000423F.l.04.1	14320	2	0	0	0	0	0	0	0
1374	RTA00000420F.b.04.1	63820	1	0	0	0	0	0	0	0
1376	RTA00000408F.i.18.2	74410	1	0	0	0	0	0	0	0
1378	RTA00000341F.j.05.1	36177	2	0	0	0	0	0	0	0
1379	RTA00000420F.a.16.1	63345	1	0	0	0	0	0	0	0
1381	RTA00000410F.j.01.1	73399	1	0	0	0	0	0	0	0
1382	RTA00000408F.p.21.1	77930	1	0	0	0	0	0	0	0
1383	RTA00000412F.d.19.1	75743	1	0	0	0	0	0	0	0
1384	RTA00000352R.c.04.1	71976	1	0	0	0	0	0	0	0
1385	RTA00000413F.f.19.1	65189	1	0	0	0	0	0	0	0
1386	RTA00000411F.e.03.1	73648	1	0	0	0	0	0	0	0
1389	RTA00000418F.c.04.1	41587	1	1	0	0	0	0	0	0
1390	RTA00000418F.o.17.1	79069	1	0	0	0	0	0	0	0
1391	RTA00000418F.e.21.1	74773	1	0	0	0	0	0	0	0
1392	RTA00000419F.d.14.1	64945	1	0	0	0	0	0	0	0
1396	RTA00000410F.j.20.1	73601	1	0	0	0	0	0	0	0
1399	RTA00000119A.j.9.1	82060	1	0	0	0	0	0	0	0
1403	RTA00000340F.i.13.1	79299	1	0	0	0	0	0	0	0
1404	RTA00000412F.g.03.1	64740	1	0	0	0	0	0	0	0
1405	RTA00000122A.g.17.1	32655	1	1	0	0	0	0	0	0
1407	RTA00000419F.n.12.1	66086	1	0	0	0	0	0	0	0
1410	RTA00000351R.p.14.1	13166	2	3	0	0	0	0	0	0
1411	RTA00000403F.e.08.1	19126	3	0	0	0	0	0	0	0
1412	RTA00000124A.k.20.1	80913	1	0	0	0	0	0	0	0
1413	RTA00000121A.n.2.1	33585	1	1	0	0	0	0	0	0
1414	RTA00000422F.m.24.1	39159	2	0	1	0	1	1	2	2
1415	RTA00000408F.e.24.2	75002	1	0	0	0	0	0	0	0
1418	RTA00000403F.b.12.1	78775	1	0	0	0	0	0	0	0
1419	RTA00000404F.a.09.1	38985	2	0	0	0	0	0	0	0
1421	RTA00000403F.o.19.1	78615	1	0	0	0	0	0	0	0
1424	RTA00000410F.b.10.1	74504	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1426	RTA00000413F.h.12.1	66929	1	0	0	0	0	0	0	0
1427	RTA00000406F.k.14.1	38651	2	0	0	0	0	0	0	0
1429	RTA00000411F.f.17.1	65661	1	0	0	0	0	0	0	0
1430	RTA00000411F.k.10.1	64506	1	0	0	0	0	0	0	0
1431	RTA00000411F.g.21.1	64500	1	0	0	0	0	0	0	0
1432	RTA00000119A.h.24.1	82266	1	0	0	0	0	0	0	0
1434	RTA00000408F.m.22.2	72949	1	0	0	0	0	0	0	0
1437	RTA00000410F.i.17.1	78147	1	0	0	0	0	0	0	0
1440	RTA00000129A.a.13.2	79780	1	0	0	0	0	0	0	0
1441	RTA00000129A.k.21.1	82067	1	0	0	0	0	0	0	0
1442	RTA00000350R.g.10.1	9026	7	0	0	1	0	0	0	0
1443	RTA00000413F.d.23.1	66030	1	0	0	0	0	0	0	0
1447	RTA00000411F.d.10.1	76445	1	0	0	0	0	0	0	0
1448	RTA00000404F.b.19.1	39281	2	0	0	0	0	0	0	0
1449	RTA00000418F.c.07.1	73245	1	0	0	0	0	0	0	0
1450	RTA00000418F.j.15.1	74855	1	0	0	0	0	1	0	0
1453	RTA00000413F.b.16.1	65126	1	0	0	0	0	0	0	0
1455	RTA00000350R.m.14.1	39171	2	0	0	0	0	0	0	0
1456	RTA00000418F.l.11.1	77158	1	0	0	0	0	0	0	0
1457	RTA00000130A.d.5.1	82051	1	0	0	0	0	0	0	0
1458	RTA00000339F.n.05.1	39648	2	0	0	0	0	0	0	0
1460	RTA00000407F.a.23.1	23489	2	1	0	0	0	0	0	0
1462	RTA00000403F.h.11.1	39219	2	0	0	0	0	0	0	0
1463	RTA00000406F.j.13.1	38688	2	0	0	0	0	0	0	0
1464	RTA00000352R.p.09.1	16915	4	0	0	0	0	0	0	0
1465	RTA00000413F.g.24.1	65481	1	0	0	0	0	0	0	0
1469	RTA00000420F.a.08.1	19473	1	2	0	0	0	0	0	0
1472	RTA00000404F.i.22.1	39082	2	0	0	0	0	0	0	0
1473	RTA00000124A.k.23.1	81350	1	0	0	0	0	0	0	0
1474	RTA00000404F.e.11.1	38991	2	0	0	0	0	0	0	0
1475	RTA00000129A.d.2.4	80119	1	0	0	0	0	0	0	0
1478	RTA00000419F.o.15.1	32487	1	1	0	0	0	0	0	0
1479	RTA00000119A.m.17.1	79536	1	0	0	0	0	0	0	0
1480	RTA00000410F.b.07.1	78916	1	0	0	0	0	0	0	0
1481	RTA00000420F.b.19.1	36873	2	0	0	0	0	0	0	0
1483	RTA00000411F.b.21.1	10051	1	0	0	0	0	0	0	0
1485	RTA00000356R.c.16.1	16915	4	0	0	0	0	0	0	0
1487	RTA00000412F.h.11.1	63175	1	0	0	0	0	0	0	0
1490	RTA00000420F.a.11.1	66460	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1491	RTA00000120A.c.7.1	80985	1	0	0	1	0	0	0	0
1492	RTA00000404F.e.15.1	39101	2	0	0	0	0	0	0	0
1493	RTA00000422F.n.20.1	38676	2	0	0	0	0	0	1	0
1494	RTA00000423F.h.20.1	38639	2	0	0	0	0	0	0	0
1497	RTA00000410F.b.18.1	76701	1	0	0	0	0	0	0	0
1499	RTA00000423F.g.15.1	35173	2	0	0	0	0	0	0	0
1500	RTA00000413F.b.04.1	66427	1	0	0	0	0	0	0	0
1503	RTA00000346F.f.11.1	38528	2	0	0	0	0	0	0	0
1506	RTA00000422F.i.02.1	76436	1	0	0	0	0	0	0	0
1507	RTA00000410F.a.08.1	73324	1	0	0	0	0	0	0	0
1509	RTA00000419F.e.02.1	65010	1	0	0	0	0	0	0	0
1511	RTA00000403F.g.13.1	38718	2	0	0	0	0	0	0	0
1513	RTA00000407F.a.01.1	12501	3	1	0	0	0	0	0	0
1516	RTA00000411F.f.14.1	62984	1	0	0	0	0	0	0	0
1517	RTA00000411F.c.04.1	76858	1	0	0	0	0	0	0	0
1518	RTA00000135A.m.18.1	19255	2	0	0	0	0	0	0	0
1519	RTA00000413F.c.17.1	36831	2	0	0	0	0	0	0	0
1521	RTA00000404F.j.01.1	26859	2	0	0	0	0	0	0	0
1522	RTA00000138A.p.10.1	81625	1	0	0	0	0	0	0	0
1526	RTA00000423F.h.07.1	37933	2	0	0	0	0	0	0	0
1527	RTA00000413F.e.04.1	64176	1	0	0	0	0	0	0	0
1528	RTA00000406F.h.03.1	38585	2	0	0	0	0	0	0	0
1529	RTA00000403F.e.24.1	16432	2	2	0	0	0	0	0	0
1531	RTA00000403F.i.11.1	23535	2	1	0	0	0	0	0	0
1532	RTA00000419F.g.02.1	62839	1	0	0	0	0	0	0	0
1533	RTA00000347F.e.05.1	39814	2	0	0	0	0	0	0	0
1534	RTA00000408F.l.16.1	73468	1	0	0	0	0	0	0	0
1536	RTA00000423F.f.09.1	64823	1	0	0	0	0	0	0	0
1537	RTA00000419F.k.03.1	40822	1	1	0	0	0	0	0	0
1538	RTA00000406F.b.02.1	38744	2	0	0	0	0	0	0	0
1539	RTA00000418F.o.14.1	33524	1	1	0	0	0	0	0	0
1541	RTA00000404F.b.09.1	39166	2	0	0	0	0	0	0	0
1547	RTA00000406F.k.11.1	38715	2	0	0	0	0	0	0	0
1549	RTA00000406F.c.06.1	37924	2	0	0	0	0	0	0	0
1550	RTA00000418F.n.07.1	76316	1	0	0	0	0	0	0	0
1551	RTA00000419F.n.15.1	63484	1	0	0	0	0	0	0	0
1552	RTA00000408F.n.06.2	76642	1	0	0	0	0	0	0	0
1553	RTA00000420F.c.04.1	65007	1	0	0	0	0	0	0	0
1554	RTA00000411F.j.15.1	66871	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1556	RTA00000128A.m.23.1	81441	1	0	0	0	0	0	0	0
1557	RTA00000406F.g.03.1	38690	2	0	0	0	0	0	0	0
1558	RTA00000405F.h.05.2	75706	1	0	0	0	0	0	0	0
1559	RTA00000129A.n.24.1	81409	1	0	0	0	0	0	0	0
1562	RTA00000418F.n.11.1	78977	1	0	0	0	0	0	0	0
1565	RTA00000120A.h.9.1	80736	1	0	0	0	0	0	0	0
1566	RTA00000413F.a.12.1	63403	1	0	0	0	0	0	0	0
1567	RTA00000412F.o.05.1	63575	1	0	0	0	0	0	0	0
1571	RTA00000354R.n.04.1	22049	3	0	0	0	0	0	0	0
1573	RTA00000406F.h.05.1	38542	2	0	0	0	0	0	0	0
1574	RTA00000410F.b.24.1	75104	1	0	0	0	0	0	0	0
1575	RTA00000423F.d.11.1	38950	2	0	0	0	0	0	0	0
1578	RTA00000119A.k.1.1	81282	1	0	0	0	0	0	0	0
1579	RTA00000420F.f.07.1	66312	1	0	0	0	0	0	0	0
1580	RTA00000404F.k.22.2	39084	2	0	0	0	0	0	0	0
1581	RTA00000422F.e.07.1	38964	2	0	0	0	0	0	0	0
1582	RTA00000410F.f.12.1	73883	1	0	0	0	0	0	0	0
1584	RTA00000411F.m.11.1	73196	1	0	0	0	0	0	0	0
1587	RTA00000403F.o.10.2	38964	2	0	0	0	0	0	0	0
1590	RTA00000413F.c.10.1	65600	1	0	0	0	0	0	0	0
1591	RTA00000411F.b.17.1	72893	1	0	0	0	0	0	0	0
1593	RTA00000408F.k.19.1	77593	1	0	0	0	0	0	0	0
1596	RTA00000119A.i.8.1	82593	1	0	0	0	0	0	0	0
1598	RTA00000418F.g.03.1	78737	1	0	0	0	0	0	0	0
1599	RTA00000411F.a.09.1	78629	1	0	0	0	0	0	0	0
1601	RTA00000419F.j.11.1	73183	1	0	0	0	0	0	0	0
1603	RTA00000404F.n.18.2	37169	2	0	0	0	0	0	0	0
1604	RTA00000122A.n.16.1	80553	1	0	0	0	0	0	0	0
1605	RTA00000420F.c.07.1	65555	1	0	0	0	0	0	0	0
1608	RTA00000408F.j.13.2	42275	1	1	0	0	0	0	0	0
1610	RTA00000423F.a.01.1	39103	2	0	0	0	0	0	0	0
1613	RTA00000341F.e.20.1	67422	1	0	0	0	0	0	0	0
1614	RTA00000419F.m.22.1	75600	1	0	0	0	0	0	0	0
1615	RTA00000419F.m.23.1	64263	1	0	0	0	0	0	0	0
1616	RTA00000419F.b.06.1	76728	1	0	0	0	0	0	0	0
1618	RTA00000406F.p.08.1	37573	2	0	0	0	0	0	0	2
1619	RTA00000129A.n.17.1	79811	1	0	0	0	0	0	0	0
1621	RTA00000407F.b.08.1	37513	2	0	0	0	0	0	0	0
1623	RTA00000406F.i.08.1	37946	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1624	RTA00000403F.h.07.1	26856	2	0	0	0	0	0	0	0
1625	RTA00000418F.n.24.1	73153	1	0	0	0	0	0	0	0
1627	RTA00000409F.l.20.1	74394	1	0	0	0	0	0	0	0
1628	RTA00000418F.l.06.1	73317	1	0	0	0	0	0	0	0
1629	RTA00000346F.o.22.1	7381	2	6	0	0	0	0	0	0
1630	RTA00000129A.k.22.1	79639	1	0	0	0	0	0	0	0
1632	RTA00000418F.m.22.1	74567	1	0	0	0	0	0	0	0
1633	RTA00000413F.c.12.1	65334	1	0	0	0	0	0	0	0
1635	RTA00000418F.g.20.1	74626	1	0	0	0	0	0	0	0
1636	RTA00000413F.d.15.1	64943	1	0	0	0	0	0	0	0
1639	RTA00000412F.c.10.1	76372	1	0	0	0	0	0	0	0
1640	RTA00000122A.j.17.1	62736	1	0	0	0	0	0	0	0
1645	RTA00000418F.j.19.1	78399	1	0	0	0	0	0	0	0
1646	RTA00000137A.p.12.1	80614	1	0	0	0	0	0	0	0
1648	RTA00000418F.p.10.1	75323	1	0	0	0	0	0	0	0
1649	RTA00000408F.k.12.1	77246	1	0	0	0	0	0	0	0
1650	RTA00000137A.j.11.4	79752	1	0	0	0	0	0	0	0
1652	RTA00000419F.n.24.1	65995	1	0	0	0	0	0	0	0
1653	RTA00000418F.l.03.1	79058	1	0	0	0	0	0	0	0
1655	RTA00000419F.m.13.1	79052	1	0	0	0	0	0	0	0
1656	RTA00000418F.j.14.1	32623	1	1	0	0	0	0	0	0
1657	RTA00000403F.a.10.1	73952	1	0	0	0	0	0	0	0
1658	RTA00000420F.a.21.1	66241	1	0	0	0	0	0	0	0
1659	RTA00000127A.e.6.1	5885	4	2	0	0	0	0	0	0
1660	RTA00000405F.g.21.2	38966	2	0	0	0	0	0	0	0
1661	RTA00000405F.g.21.1	38966	2	0	0	0	0	0	0	0
1662	RTA00000419F.m.06.1	75749	1	0	0	0	0	0	0	0
1663	RTA00000423F.g.03.1	38007	2	0	0	0	0	0	0	0
1665	RTA00000418F.f.03.1	78911	1	0	0	0	0	0	0	0
1668	RTA00000120A.c.20.1	43235	1	1	0	0	0	1	0	0
1669	RTA00000138A.m.15.1	41603	1	1	0	0	0	0	0	0
1670	RTA00000408F.f.14.2	73024	1	0	0	0	0	0	0	0
1671	RTA00000418F.p.20.1	78023	1	0	0	0	0	0	0	0
1672	RTA00000423F.e.21.1	66961	1	0	0	0	0	0	0	0
1673	RTA00000419F.j.22.1	73525	1	0	0	0	0	0	0	0
1674	RTA00000410F.d.18.1	75458	1	0	0	0	0	0	0	0
1675	RTA00000403F.b.24.1	78838	1	0	0	0	0	0	0	0
1677	RTA00000410F.e.09.1	76093	1	0	0	0	0	0	0	0
1680	RTA00000353R.h.10.1	39498	2	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1682	RTA00000411F.d.21.1	74794	1	0	0	0	0	0	0	0
1683	RTA00000340F.m.04.1	19406	2	1	0	0	0	0	0	0
1684	RTA00000411F.n.09.1	78962	1	0	0	0	0	0	0	0
1685	RTA00000127A.h.22.2	13155	2	3	0	0	0	0	0	0
1686	RTA00000420F.e.09.1	66325	1	0	0	0	0	0	0	0
1687	RTA00000405F.p.03.1	11346	3	3	0	0	0	0	0	0
1688	RTA00000419F.a.18.1	78484	1	0	0	0	0	0	0	0
1691	RTA00000121A.n.23.1	26981	2	0	0	0	0	0	0	0
1692	RTA00000121A.n.15.1	40849	1	1	0	0	0	0	0	0
1693	RTA00000403F.i.23.1	11364	4	2	0	0	0	0	0	0
1694	RTA00000405F.a.03.1	39065	2	0	0	0	0	0	0	0
1696	RTA00000419F.p.08.1	65560	1	0	0	0	0	0	0	0
1697	RTA00000126A.n.6.2	79917	1	0	0	0	0	0	0	0
1698	RTA00000413F.c.03.1	64527	1	0	0	1	0	0	0	0
1699	RTA00000422F.k.24.1	39118	2	0	0	0	0	0	0	0
1700	RTA00000412F.c.17.1	75620	1	0	0	0	0	0	0	0
1702	RTA00000347F.g.08.1	23121	3	0	0	0	0	0	0	0
1703	RTA00000419F.o.06.1	64643	1	0	0	0	0	0	0	0
1704	RTA00000340R.j.07.1	38954	2	0	0	0	0	0	0	0
1705	RTA00000423F.j.02.1	38617	2	0	0	0	0	0	0	0
1706	RTA00000419F.c.04.1	63749	1	0	0	0	0	0	0	0
1707	RTA00000411F.a.01.1	74524	1	0	0	0	0	0	0	0
1708	RTA00000406F.f.05.1	22961	2	1	0	0	0	0	0	0
1709	RTA00000410F.n.05.1	77830	1	0	0	0	0	0	1	0
1710	RTA00000404F.e.06.1	39315	2	0	0	0	0	0	0	0
1712	RTA00000411F.c.03.1	79280	1	0	0	0	0	0	0	0
1718	RTA00000405F.l.07.1	38636	2	0	0	0	0	0	0	0
1720	RTA00000411F.n.06.1	73886	1	0	0	0	0	0	0	0
1721	RTA00000422F.k.15.1	19253	2	0	0	0	0	0	0	0
1722	RTA00000406F.h.16.1	38618	2	0	0	0	0	0	0	0
1723	RTA00000419F.f.24.1	18717	1	1	0	0	0	0	0	0
1724	RTA00000411F.d.18.1	76063	1	0	0	0	0	0	0	0
1727	RTA00000408F.d.15.1	78467	1	0	0	0	0	0	0	0
1728	RTA00000339F.b.22.1	6867	7	3	0	0	0	0	0	0
1730	RTA00000411F.n.02.1	78049	1	0	0	0	0	0	0	0
1731	RTA00000419F.b.17.1	63261	1	0	0	0	0	0	0	0
1733	RTA00000130A.e.20.1	79502	1	0	0	0	0	0	0	0
1735	RTA00000411F.i.13.1	66138	1	0	0	0	0	0	0	0
1736	RTA00000420F.e.20.1	64762	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1737	RTA00000126A.p.23.2	80915	1	0	0	0	0	0	0	0
1739	RTA00000406F.g.08.1	37963	2	0	0	0	0	0	0	0
1740	RTA00000409F.a.08.1	74978	1	0	0	0	0	0	0	0
1741	RTA00000406F.d.24.1	37997	2	0	0	0	0	0	0	0
1744	RTA00000418F.i.12.1	78971	1	0	0	0	0	0	0	0
1745	RTA00000121A.h.19.1	80334	1	0	0	0	0	0	0	0
1746	RTA00000419F.b.10.1	78566	1	0	0	0	0	0	0	0
1747	RTA00000406F.m.10.1	38004	2	0	0	0	0	0	0	0
1748	RTA00000406F.o.05.1	37894	2	0	0	0	0	0	0	0
1749	RTA00000408F.b.04.2	39933	2	0	0	0	0	0	0	0
1750	RTA00000411F.k.04.1	65407	1	0	0	0	0	0	0	0
1752	RTA00000134A.l.9.1	81814	1	0	0	0	0	0	0	0
1754	RTA00000418F.k.04.1	75864	1	0	0	0	0	0	0	0
1757	RTA00000419F.p.18.1	63002	1	0	0	0	0	0	0	0
1759	RTA00000419F.a.24.1	79290	1	0	0	0	0	0	0	0
1761	RTA00000129A.e.14.1	80053	1	0	0	0	0	0	0	0
1762	RTA00000404F.a.01.1	19251	2	0	0	0	0	0	0	0
1765	RTA00000408F.n.16.2	73720	1	0	0	0	0	0	0	0
1769	RTA00000412F.l.14.1	62792	1	0	0	0	0	0	0	0
1770	RTA00000129A.b.6.2	39111	2	0	0	0	0	0	0	0
1771	RTA00000406F.n.12.1	37517	2	0	0	0	0	0	0	0
1772	RTA00000418F.e.03.1	73442	1	0	0	0	0	0	0	0
1774	RTA00000403F.g.03.1	23537	2	1	0	0	0	0	0	0
1775	RTA00000412F.p.06.1	65485	1	0	0	0	0	0	0	0
1776	RTA00000419F.b.21.1	65366	1	0	0	0	0	0	0	0
1779	RTA00000351R.j.16.1	64773	1	0	0	0	0	0	0	0
1781	RTA00000419F.f.18.1	64047	1	0	0	0	0	0	0	0
1782	RTA00000423F.i.16.1	38604	2	0	0	0	0	0	0	0
1784	RTA00000411F.f.04.1	64526	1	0	0	0	0	0	0	0
1785	RTA00000125A.c.17.1	80619	1	0	0	0	0	0	0	0
1786	RTA00000404F.g.08.1	38980	2	0	0	0	0	0	0	0
1787	RTA00000423F.c.13.1	39059	2	0	0	0	0	0	0	0
1790	RTA00000404F.k.15.1	18225	2	0	0	0	0	0	0	0
1792	RTA00000339F.l.12.1	7711	4	1	0	0	0	0	0	0
1793	RTA00000406F.b.01.1	39006	2	0	0	0	0	0	0	0
1794	RTA00000407F.c.08.1	37549	2	0	0	0	0	0	0	0
1796	RTA00000403F.b.05.1	74300	1	0	0	0	0	0	0	0
1800	RTA00000408F.j.05.2	73878	1	0	0	0	0	0	0	0
1802	RTA00000419F.c.14.1	65727	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1806	RTA00000346F.h.24.1	4379	9	2	0	0	0	0	0	0
1807	RTA00000420F.b.02.1	64013	1	0	0	0	0	0	0	0
1808	RTA00000413F.b.24.1	65117	1	0	0	0	0	0	0	0
1809	RTA00000412F.d.08.1	75328	1	0	0	0	0	0	0	0
1811	RTA00000419F.m.18.1	76014	1	0	0	0	0	0	0	0
1812	RTA00000419F.l.24.1	74628	1	0	0	0	0	0	0	0
1813	RTA00000408F.c.06.1	78619	1	0	0	0	0	0	0	0
1814	RTA00000405F.h.21.2	39072	2	0	0	0	0	0	0	0
1816	RTA00000405F.g.05.2	38987	2	0	0	0	0	0	0	0
1817	RTA00000411F.f.20.1	63501	1	0	0	0	0	0	0	0
1819	RTA00000420F.d.19.1	43146	1	1	0	0	0	0	0	0
1820	RTA00000195R.a.06.1	35265	2	0	1	0	0	0	0	0
1821	RTA00000123A.f.2.1	80379	1	0	0	0	0	0	0	0
1822	RTA00000411F.j.11.1	66154	1	0	0	0	0	0	0	0
1827	RTA00000419F.j.03.1	77578	1	0	0	0	0	0	0	0
1829	RTA00000423F.h.11.1	38977	2	0	0	0	0	0	0	0
1830	RTA00000413F.b.17.1	21704	1	2	0	0	0	0	0	0
1833	RTA00000423F.f.03.1	63852	1	0	0	0	0	0	0	0
1834	RTA00000419F.e.10.1	63225	1	0	0	0	0	0	0	0
1836	RTA00000403F.d.02.1	39224	2	0	0	0	0	0	0	0
1838	RTA00000418F.j.20.1	77101	1	0	0	0	0	0	0	0
1846	RTA00000356R.h.05.1	35052	2	0	1	0	0	0	0	0
1848	RTA00000340F.i.15.1	26815	1	0	0	0	0	0	0	0
1850	RTA00000345F.c.12.1	23824	2	1	0	0	0	0	0	0
1852	RTA00000412F.o.03.1	65039	1	0	0	0	0	0	0	0
1853	RTA00000409F.d.16.1	76090	1	0	0	0	0	0	0	0
1856	RTA00000408F.j.17.2	78935	1	0	0	0	0	0	0	0
1857	RTA00000126A.j.15.2	40425	2	0	0	0	0	0	0	0
1861	RTA00000410F.b.17.1	77458	1	0	0	0	0	0	0	0
1862	RTA00000419F.l.22.1	78444	1	0	0	0	0	0	0	0
1864	RTA00000422F.f.22.1	38703	2	0	0	0	0	0	0	0
1867	RTA00000418F.c.05.1	76475	1	0	0	0	0	0	0	0
1868	RTA00000418F.p.21.1	78068	1	0	0	0	0	0	0	0
1870	RTA00000340F.i.08.1	12005	2	1	0	0	0	0	0	0
1871	RTA00000410F.o.04.1	79018	1	0	0	0	0	0	0	0
1872	RTA00000411F.l.16.1	16122	1	3	0	0	0	0	0	0
1873	RTA00000411F.j.03.1	66263	1	0	0	0	0	0	0	0
1874	RTA00000126A.k.24.1	39428	2	0	0	0	0	0	0	0
1876	RTA00000120A.m.10.3	81376	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1877	RTA00000419F.f.16.1	64679	1	0	0	0	0	0	0	0
1878	RTA00000408F.c.23.1	42261	1	1	0	0	0	0	0	0
1881	RTA00000136A.h.6.1	81620	1	0	0	0	0	0	0	0
1886	RTA00000418F.e.20.1	73741	1	0	0	0	0	0	0	0
1888	RTA00000405F.l.03.1	38580	2	0	0	0	0	0	0	0
1889	RTA00000418F.m.02.1	74550	1	0	0	0	0	0	0	0
1891	RTA00000406F.c.05.1	22077	3	0	1	0	0	0	0	0
1893	RTA00000411F.k.21.1	65349	1	0	0	0	0	0	0	0
1897	RTA00000418F.i.06.1	75151	1	0	0	0	0	0	0	0
1898	RTA00000423F.a.03.1	26796	2	0	0	0	0	0	0	0
1900	RTA00000423F.k.21.2	37499	2	0	0	0	0	0	0	0
1902	RTA00000404F.c.18.1	38982	2	0	0	0	0	0	0	0
1905	RTA00000411F.g.24.1	65233	1	0	0	0	0	0	0	0
1907	RTA00000405F.m.07.1	37733	2	0	0	0	0	0	0	0
1908	RTA00000411F.j.07.1	66963	1	0	0	0	0	0	0	0
1910	RTA00000353R.h.04.1	17123	4	0	0	0	0	0	0	0
1911	RTA00000408F.f.10.2	75309	1	0	0	0	0	0	0	0
1913	RTA00000405F.o.03.1	37575	2	0	0	0	0	0	0	0
1914	RTA00000413F.b.18.1	39873	2	0	0	0	0	0	0	0
1920	RTA00000408F.c.08.1	73473	1	0	0	0	0	0	0	0
1922	RTA00000410F.c.06.1	77784	1	0	0	0	1	0	0	0
1924	RTA00000405F.b.08.1	39182	2	0	0	0	0	0	0	0
1925	RTA00000409F.l.24.1	73174	1	0	0	0	0	0	0	0
1926	RTA00000406F.j.06.1	38952	2	0	0	0	0	0	0	0
1927	RTA00000423F.h.03.1	37903	2	0	0	0	0	0	0	0
1929	RTA00000121A.k.22.1	79523	1	0	0	0	0	0	0	0
1931	RTA00000411F.m.06.1	24195	2	1	0	0	0	0	0	0
1932	RTA00000126A.b.9.1	81279	1	0	0	0	0	0	0	0
1935	RTA00000404F.l.05.1	38671	2	0	0	0	0	0	0	0
1941	RTA00000419F.p.10.1	41448	1	1	0	0	0	0	0	0
1942	RTA00000120A.c.19.1	81016	1	0	0	0	0	0	0	0
1948	RTA00000411F.k.14.1	63987	1	0	0	0	0	0	0	0
1949	RTA00000420F.e.05.1	63908	1	0	0	0	0	0	0	0
1952	RTA00000128A.j.10.1	80085	1	0	0	0	0	0	0	0
1953	RTA00000412F.f.10.2	65405	1	0	0	0	0	0	0	0
1955	RTA00000422F.k.17.1	38955	2	0	0	0	0	0	0	0
1957	RTA00000347F.h.10.1	22779	3	0	0	0	0	0	0	0
1959	RTA00000419F.l.02.1	75736	1	0	0	0	0	0	0	0
1961	RTA00000418F.b.20.1	73560	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
1964	RTA00000408F.n.05.2	77883	1	0	0	0	0	0	0	0
1965	RTA00000419F.o.09.1	66396	1	0	0	0	0	0	0	0
1970	RTA00000422F.o.08.2	26832	2	0	0	0	0	0	0	0
1973	RTA00000418F.m.18.1	76479	1	0	0	0	0	0	0	0
1974	RTA00000347F.e.20.1	39911	2	0	0	0	0	0	0	0
1975	RTA00000419F.e.23.1	65772	1	0	0	0	0	0	0	0
1982	RTA00000411F.g.05.1	64664	1	0	0	0	0	0	0	0
1983	RTA00000404F.h.10.1	37148	2	0	0	0	0	0	0	0
1984	RTA00000422F.n.14.1	26787	2	0	0	0	0	0	0	0
1986	RTA00000120A.m.13.3	80608	1	0	0	0	0	0	0	0
1987	RTA00000412F.i.03.1	65617	1	0	0	0	0	0	0	0
1988	RTA00000418F.l.02.1	39316	2	0	0	0	0	0	0	0
1990	RTA00000411F.j.04.1	66219	1	0	0	0	0	0	0	0
1995	RTA00000404F.a.18.1	36267	2	0	0	0	0	0	0	0
1996	RTA00000408F.l.14.1	12001	2	3	0	0	0	0	0	0
1997	RTA00000405F.d.10.1	39000	2	0	0	0	0	0	0	0
1999	RTA00000418F.h.23.1	75153	1	0	0	0	0	0	0	0
2001	RTA00000418F.j.11.1	73853	1	0	0	0	0	0	0	0
2002	RTA00000408F.o.13.1	74895	1	0	0	0	0	0	0	0
2003	RTA00000419F.o.07.1	14059	1	0	0	0	0	0	0	0
2004	RTA00000419F.n.17.1	63186	1	0	0	0	0	0	0	0
2005	RTA00000403F.f.15.1	22768	3	0	0	0	0	0	0	0
2006	RTA00000408F.d.03.1	22768	3	0	0	0	0	0	0	0
2008	RTA00000346F.f.02.1	62757	1	0	0	0	0	0	0	0
2010	RTA00000413F.i.21.1	64066	1	0	0	0	0	0	0	0
2012	RTA00000419F.h.21.1	64828	1	0	0	0	0	0	0	0
2021	RTA00000121A.a.2.1	81843	1	0	0	0	0	0	0	0
2022	RTA00000527F.g.13.1	36035	2	0	0	0	0	0	0	0
2025	RTA00000426F.h.11.1	75479	1	0	0	0	0	0	0	0
2030	RTA00000522F.b.22.1	75181	1	0	0	0	0	0	0	0
2033	RTA00000522F.a.23.1	38613	2	0	0	0	0	0	0	0
2035	RTA00000523F.b.02.1	65163	1	0	0	0	0	0	0	0
2036	RTA00000425F.j.14.1	73397	1	0	0	0	0	0	0	0
2039	RTA00000522F.e.16.1	75283	1	0	0	0	0	0	0	0
2042	RTA00000523F.h.17.1	65586	1	0	0	0	0	0	0	0
2044	RTA00000522F.p.07.1	76888	1	0	0	0	0	0	0	0
2045	RTA00000522F.n.08.1	76343	1	0	0	0	0	0	0	0
2046	RTA00000425F.c.06.1	78041	1	0	0	0	0	0	0	0
2047	RTA00000427F.b.23.1	64297	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2048	RTA00000527F.p.02.1	36844	2	0	0	0	0	0	0	0
2049	RTA00000427F.d.08.1	63967	1	0	0	0	0	0	0	0
2051	RTA00000426F.m.07.1	63504	1	0	0	0	0	0	0	0
2052	RTA00000427F.c.10.1	65478	1	0	0	0	0	0	0	0
2055	RTA00000424F.m.15.1	73759	1	0	0	0	0	0	0	0
2056	RTA00000426F.f.11.1	63102	1	0	0	0	0	0	0	0
2058	RTA00000426F.f.20.1	65134	1	0	0	0	0	0	0	0
2063	RTA00000527F.i.19.2	38089	2	0	0	0	0	0	0	0
2068	RTA00000523F.e.18.1	62898	1	0	0	0	0	0	0	0
2069	RTA00000527F.k.21.1	36051	2	0	0	0	0	0	0	0
2072	RTA00000522F.n.02.1	74959	1	0	0	0	0	0	0	0
2075	RTA00000425F.f.19.1	32635	1	1	0	0	0	0	0	0
2076	RTA00000528F.e.23.1	19242	3	0	0	0	0	0	0	0
2077	RTA00000522F.n.16.1	26769	1	0	0	0	0	0	0	0
2078	RTA00000427F.c.20.1	26527	1	0	0	0	0	0	0	0
2079	RTA00000527F.k.06.1	12469	3	1	0	0	0	0	0	0
2081	RTA00000523F.i.06.1	66341	1	0	0	0	0	0	0	0
2082	RTA00000427F.f.21.1	36853	2	0	0	0	0	0	0	0
2083	RTA00000427F.j.19.1	41395	1	1	0	0	0	0	0	0
2084	RTA00000522F.b.01.1	75691	1	0	0	0	0	0	0	0
2085	RTA00000424F.i.24.1	79101	1	0	0	0	0	0	0	0
2086	RTA00000523F.c.01.1	65710	1	0	0	0	0	0	0	0
2087	RTA00000427F.b.15.1	66891	1	0	0	0	0	0	0	0
2090	RTA00000522F.j.15.2	76535	1	0	0	0	0	0	0	0
2093	RTA00000426F.f.19.1	66701	1	0	1	0	0	0	0	0
2096	RTA00000523F.i.22.1	64688	1	0	0	0	0	0	0	0
2098	RTA00000425F.i.17.1	43213	1	1	0	0	0	0	0	0
2101	RTA00000425F.p.12.1	73219	1	0	0	0	0	0	0	0
2102	RTA00000427F.j.07.1	64819	1	0	0	0	0	0	0	0
2104	RTA00000527F.i.05.2	37481	2	0	0	0	0	0	0	0
2107	RTA00000523F.k.01.1	41437	1	1	0	0	0	0	0	0
2108	RTA00000425F.j.11.1	76667	1	0	0	0	0	0	0	0
2109	RTA00000424F.b.22.4	72971	1	0	0	0	0	0	0	0
2111	RTA00000525F.a.03.1	36786	2	0	0	0	0	0	0	0
2112	RTA00000527F.i.21.2	37490	2	0	0	0	0	0	0	0
2113	RTA00000424F.a.24.4	73951	1	0	0	0	0	0	0	0
2114	RTA00000522F.k.14.1	74280	1	0	0	0	0	0	0	0
2115	RTA00000522F.n.05.1	73260	1	0	0	0	0	0	0	0
2116	RTA00000523F.c.18.1	66179	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2117	RTA00000523F.b.13.1	66330	1	0	0	0	0	0	0	0
2119	RTA00000527F.p.16.1	23798	2	1	0	0	0	0	0	0
2120	RTA00000425F.c.20.1	73581	1	0	0	0	0	0	0	0
2121	RTA00000424F.i.21.1	73482	1	0	0	0	0	0	0	0
2122	RTA00000523F.j.19.1	65910	1	0	0	0	0	0	0	0
2124	RTA00000424F.b.22.1	72971	1	0	0	0	0	0	0	0
2125	RTA00000527F.b.18.1	37469	2	0	0	0	0	0	0	0
2129	RTA00000525F.e.16.1	36837	2	0	0	0	0	0	0	0
2131	RTA00000522F.d.08.1	74284	1	0	0	0	0	0	0	0
2134	RTA00000527F.g.07.1	37488	2	0	0	0	0	0	0	0
2136	RTA00000525F.b.05.1	21116	2	1	0	0	0	0	0	0
2137	RTA00000425F.n.05.1	73965	1	0	0	0	0	0	0	0
2138	RTA00000523F.d.18.1	64072	1	0	0	0	0	0	0	0
2139	RTA00000525F.a.02.1	37454	2	0	0	0	0	0	0	0
2141	RTA00000426F.h.09.1	78797	1	0	0	0	0	0	0	0
2144	RTA00000427F.g.05.1	63138	1	0	0	0	0	0	0	0
2145	RTA00000424F.m.12.1	77675	1	0	0	0	0	0	0	0
2151	RTA00000427F.h.12.1	36894	2	0	0	0	0	0	0	0
2152	RTA00000523F.c.15.1	36935	2	0	0	0	0	0	0	0
2153	RTA00000427F.k.17.1	64965	1	0	0	0	0	0	0	0
2155	RTA00000424F.c.14.3	76614	1	0	0	0	0	0	0	0
2156	RTA00000522F.k.10.2	77619	1	0	0	0	0	0	0	0
2157	RTA00000424F.m.22.1	72943	1	0	0	0	0	0	0	0
2158	RTA00000527F.h.17.1	37799	2	0	0	0	0	0	0	0
2159	RTA00000527F.c.22.1	37496	2	0	0	0	0	0	0	0
2160	RTA00000425F.k.22.1	78123	1	0	0	0	0	0	0	0
2161	RTA00000424F.m.14.1	77491	1	0	0	0	0	0	0	0
2162	RTA00000522F.k.19.1	32625	1	1	0	0	0	0	0	0
2163	RTA00000523F.i.18.1	64463	1	0	0	0	0	0	0	0
2164	RTA00000425F.j.22.1	73882	1	0	0	0	0	0	0	0
2165	RTA00000527F.g.23.1	37538	2	0	0	0	0	0	0	0
2166	RTA00000426F.m.24.1	63943	1	0	0	0	0	0	0	0
2168	RTA00000425F.d.21.1	78920	1	0	0	0	0	0	0	0
2170	RTA00000424F.d.04.3	76505	1	0	0	0	0	0	0	0
2171	RTA00000424F.d.04.1	76505	1	0	0	0	0	0	0	0
2172	RTA00000427F.c.12.1	66995	1	0	0	0	0	0	0	0
2174	RTA00000527F.l.13.1	36904	2	0	0	0	0	0	0	0
2175	RTA00000522F.h.13.1	40823	1	1	0	0	0	0	0	0
2176	RTA00000424F.l.19.1	75454	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2179	RTA00000427F.a.06.1	66550	1	0	0	0	0	0	0	0
2180	RTA00000525F.c.19.1	38159	2	0	0	0	0	0	0	0
2181	RTA00000523F.f.06.1	62871	1	0	0	0	0	0	0	0
2182	RTA00000424F.h.10.1	72925	1	0	0	0	0	0	0	0
2183	RTA00000522F.a.12.1	33515	1	1	0	0	0	0	0	0
2184	RTA00000522F.h.01.1	75010	1	0	0	0	0	0	0	0
2186	RTA00000425F.e.21.1	77203	1	0	0	0	0	0	0	0
2187	RTA00000523F.f.07.1	62799	1	0	0	0	0	0	0	0
2189	RTA00000424F.j.12.1	73827	1	0	0	0	0	0	0	0
2191	RTA00000523F.d.12.1	64888	1	0	0	0	0	0	0	0
2192	RTA00000523F.e.10.1	62878	1	0	0	0	0	0	0	0
2193	RTA00000425F.f.11.1	79275	1	0	0	0	0	0	0	0
2194	RTA00000426F.m.18.1	62974	1	0	0	0	0	0	0	0
2197	RTA00000522F.g.15.1	76536	1	0	0	0	0	0	0	0
2198	RTA00000522F.n.12.1	74117	1	0	0	0	0	0	0	0
2200	RTA00000424F.d.10.3	73110	1	0	0	0	0	0	0	0
2204	RTA00000527F.c.04.1	23090	3	0	0	0	0	0	0	0
2206	RTA00000527F.h.21.1	37630	2	0	0	0	0	0	0	0
2207	RTA00000425F.c.07.1	76042	1	0	0	0	0	0	0	0
2209	RTA00000525F.c.15.1	7692	2	0	0	0	0	0	0	0
2210	RTA00000424F.d.22.3	76189	1	0	0	0	0	0	0	0
2211	RTA00000523F.h.12.1	65745	1	0	0	0	0	0	0	0
2212	RTA00000522F.g.22.1	77504	1	0	0	0	0	0	0	0
2215	RTA00000522F.j.12.2	74341	1	0	0	0	0	0	0	0
2216	RTA00000523F.i.08.1	65099	1	0	0	0	0	0	0	0
2218	RTA00000425F.j.20.1	26760	1	0	0	0	0	0	0	0
2220	RTA00000427F.f.24.1	64572	1	0	0	0	0	0	0	0
2221	RTA00000527F.a.13.1	37740	2	0	0	0	0	0	0	0
2225	RTA00000424F.a.09.4	77833	1	0	0	0	0	0	0	0
2227	RTA00000525F.f.07.1	37500	2	0	0	0	0	0	0	0
2228	RTA00000424F.j.07.1	79211	1	0	0	0	0	0	0	0
2229	RTA00000424F.m.10.1	34251	1	1	0	0	0	0	0	0
2231	RTA00000522F.g.06.1	78221	1	0	0	0	0	0	0	0
2232	RTA00000424F.h.03.1	74447	1	0	0	0	0	0	0	0
2233	RTA00000424F.n.06.1	74737	1	0	0	0	0	0	0	0
2234	RTA00000427F.c.22.1	63990	1	0	0	0	0	0	0	0
2235	RTA00000424F.k.12.1	77666	1	0	0	0	0	0	0	0
2236	RTA00000425F.f.02.1	76982	1	0	0	0	0	0	0	0
2237	RTA00000427F.h.11.1	26494	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2238	RTA00000425F.j.16.1	75631	1	0	0	0	0	0	0	0
2240	RTA00000427F.f.17.1	63803	1	0	0	0	0	0	0	0
2241	RTA00000522F.o.18.1	76366	1	0	0	0	0	0	0	0
2242	RTA00000427F.j.22.1	66367	1	0	0	0	0	0	0	0
2243	RTA00000426F.p.10.1	65845	1	0	0	0	0	0	0	0
2244	RTA00000522F.m.02.1	76834	1	0	0	0	0	0	0	0
2247	RTA00000425F.e.15.1	75921	1	0	0	0	0	0	0	0
2250	RTA00000424F.n.13.1	74942	1	0	0	0	0	0	0	0
2251	RTA00000424F.g.14.1	74879	1	0	0	0	0	0	0	0
2252	RTA00000426F.e.17.1	64089	1	0	0	0	0	0	0	0
2256	RTA00000427F.g.19.1	64611	1	0	0	0	0	0	0	0
2258	RTA00000522F.c.01.1	74938	1	0	0	0	0	0	0	0
2259	RTA00000522F.g.17.1	76486	1	0	0	0	0	0	0	0
2260	RTA00000523F.j.17.1	63610	1	0	0	0	0	0	0	0
2261	RTA00000522F.n.14.1	73410	1	0	0	0	0	0	1	0
2263	RTA00000523F.e.20.1	65164	1	0	0	0	0	0	0	0
2264	RTA00000424F.c.15.3	73533	1	0	0	0	0	0	0	0
2265	RTA00000426F.p.09.1	66665	1	0	0	0	0	0	0	0
2266	RTA00000522F.p.09.1	75204	1	0	0	0	0	0	0	0
2267	RTA00000426F.m.21.1	64915	1	0	0	0	0	0	0	0
2268	RTA00000425F.j.21.1	77373	1	0	0	0	0	0	0	0
2270	RTA00000523F.h.21.1	41440	1	1	0	0	0	0	0	0
2271	RTA00000427F.h.24.1	65193	1	0	0	0	0	0	0	0
2272	RTA00000425F.f.24.1	40841	1	1	0	0	0	0	0	0
2273	RTA00000425F.m.03.1	76045	1	0	0	0	0	0	0	0
2274	RTA00000426F.m.08.1	63781	1	0	0	0	0	0	0	0
2275	RTA00000523F.d.24.1	64799	1	0	0	0	0	0	0	0
2276	RTA00000523F.c.14.1	66015	1	0	0	0	0	0	0	0
2277	RTA00000523F.b.20.1	66492	1	0	0	0	0	0	0	0
2278	RTA00000522F.h.07.1	75149	1	0	0	0	0	0	0	0
2279	RTA00000527F.g.10.1	37820	2	0	0	0	0	0	0	0
2282	RTA00000427F.i.22.1	63199	1	0	0	0	0	0	0	0
2284	RTA00000527F.n.07.1	15939	2	2	0	0	0	0	0	0
2285	RTA00000425F.e.09.1	75550	1	0	0	0	0	0	0	0
2286	RTA00000427F.h.02.1	63652	1	0	0	0	0	0	0	0
2287	RTA00000426F.f.16.1	65613	1	0	0	0	0	0	0	0
2288	RTA00000425F.i.21.1	75305	1	0	0	0	0	0	0	0
2289	RTA00000427F.k.19.1	62851	1	0	0	0	0	0	0	0
2291	RTA00000426F.g.16.1	41446	1	1	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2292	RTA00000527F.l.05.1	13016	4	0	0	1	1	0	0	0
2293	RTA00000426F.m.02.1	66237	1	0	0	0	0	0	0	0
2296	RTA00000522F.l.22.1	75801	1	0	0	0	0	0	0	0
2297	RTA00000427F.h.19.1	63047	1	0	0	0	0	0	0	0
2299	RTA00000522F.g.21.1	77310	1	0	0	0	0	0	0	0
2301	RTA00000522F.g.20.1	77688	1	0	0	0	0	0	0	0
2304	RTA00000425F.k.20.1	74048	1	0	0	0	0	0	0	0
2306	RTA00000522F.b.07.1	78634	1	0	0	0	0	0	0	0
2307	RTA00000426F.g.19.1	63672	1	0	0	0	0	0	0	0
2308	RTA00000525F.d.19.1	36860	2	0	0	0	0	0	0	0
2310	RTA00000427F.d.10.1	40685	1	1	0	0	0	0	0	0
2313	RTA00000424F.a.05.4	77976	1	0	0	0	0	0	0	0
2315	RTA00000424F.a.05.1	77976	1	0	0	0	0	0	0	0
2316	RTA00000522F.l.15.1	74691	1	0	0	0	0	0	0	0
2317	RTA00000425F.e.02.1	76143	1	0	0	0	0	0	0	0
2318	RTA00000525F.c.11.1	37895	2	0	0	0	0	0	0	0
2320	RTA00000522F.c.14.1	75449	1	0	0	0	0	0	0	0
2321	RTA00000424F.m.08.1	19402	1	2	0	0	0	0	0	0
2322	RTA00000527F.f.18.1	37577	2	0	0	0	0	0	0	0
2324	RTA00000522F.a.06.1	73662	1	0	0	0	0	0	0	0
2327	RTA00000522F.d.23.1	73868	1	0	0	0	0	0	0	0
2330	RTA00000523F.j.10.1	63384	1	0	0	0	0	0	0	0
2331	RTA00000527F.p.08.1	36013	2	0	0	0	0	0	0	0
2333	RTA00000426F.f.17.1	66334	1	0	0	0	0	0	0	0
2334	RTA00000523F.j.21.1	36925	2	0	0	0	0	0	0	0
2339	RTA00000523F.a.01.1	74923	1	0	0	0	0	0	0	0
2341	RTA00000427F.j.06.1	63676	1	0	0	0	0	0	0	0
2342	RTA00000424F.m.04.1	79017	1	0	0	0	0	0	0	0
2343	RTA00000523F.i.17.1	65779	1	0	0	0	0	0	0	0
2346	RTA00000525F.c.18.1	24208	2	1	0	0	0	0	0	0
2347	RTA00000527F.e.09.1	37521	2	0	0	0	0	0	0	0
2348	RTA00000424F.j.08.1	73972	1	0	0	0	0	0	0	0
2350	RTA00000527F.c.09.1	64859	1	0	0	0	0	0	0	0
2353	RTA00000523F.c.03.1	36913	2	0	0	0	0	0	0	0
2354	RTA00000427F.k.21.1	62880	1	0	0	0	0	0	0	0
2356	RTA00000427F.d.09.1	66486	1	0	0	0	0	0	0	0
2357	RTA00000426F.n.17.1	66572	1	0	0	0	0	0	0	0
2360	RTA00000426F.m.03.1	66480	1	0	0	0	0	0	0	0
2361	RTA00000424F.h.06.1	77552	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2362	RTA00000425F.d.06.1	77660	1	0	0	0	0	0	0	0
2363	RTA00000427F.e.12.1	62813	1	0	0	0	0	0	0	0
2366	RTA00000426F.n.23.1	18176	1	0	0	0	0	0	0	0
2367	RTA00000522F.m.19.1	41544	1	1	0	0	0	0	0	0
2368	RTA00000522F.a.05.1	32611	1	1	0	0	0	0	0	0
2369	RTA00000427F.i.09.1	65916	1	0	0	0	0	0	0	0
2370	RTA00000424F.j.09.1	74387	1	0	0	0	0	0	0	0
2371	RTA00000424F.n.11.1	73874	1	0	0	0	0	0	0	0
2373	RTA00000527F.e.13.1	37588	2	0	0	0	0	0	0	0
2375	RTA00000425F.j.19.1	77925	1	0	0	0	0	0	0	0
2376	RTA00000522F.g.12.1	78783	1	0	0	0	0	0	0	0
2377	RTA00000523F.a.07.1	75804	1	0	0	0	0	0	0	0
2378	RTA00000425F.e.19.1	73409	1	0	0	0	0	0	0	0
2379	RTA00000425F.n.19.1	78324	1	0	0	0	0	0	0	0
2384	RTA00000427F.k.07.1	63742	1	0	0	0	0	0	0	0
2387	RTA00000522F.a.17.1	79032	1	0	0	0	0	0	0	0
2388	RTA00000527F.l.19.1	36856	2	0	0	0	0	0	0	0
2389	RTA00000424F.i.11.1	41569	1	1	0	0	0	0	0	0
2391	RTA00000424F.d.19.3	73180	1	0	0	0	0	0	0	0
2392	RTA00000522F.j.09.2	78522	1	0	0	0	0	0	0	0
2393	RTA00000424F.m.24.1	77045	1	0	0	0	0	0	0	0
2394	RTA00000522F.j.19.2	76224	1	0	0	0	0	0	0	0
2398	RTA00000527F.j.12.2	37503	2	0	0	0	0	0	0	0
2399	RTA00000522F.g.11.1	75432	1	0	0	0	0	0	0	0
2400	RTA00000522F.k.02.2	77622	1	0	0	0	0	0	0	0
2401	RTA00000427F.e.13.1	66080	1	0	0	0	0	0	0	0
2402	RTA00000426F.f.18.1	63271	1	0	0	0	0	0	0	0
2403	RTA00000427F.a.12.1	63377	1	0	0	0	0	0	0	0
2404	RTA00000424F.b.23.4	77322	1	0	0	0	0	0	0	0
2408	RTA00000427F.f.02.1	36822	2	0	0	0	0	0	0	0
2410	RTA00000424F.i.15.1	78043	1	0	0	0	0	0	0	0
2412	RTA00000522F.m.03.1	79194	1	0	0	0	0	0	0	0
2413	RTA00000522F.a.20.1	74070	1	0	0	0	0	0	0	0
2414	RTA00000424F.b.15.4	74958	1	0	0	0	0	0	0	0
2415	RTA00000527F.g.14.1	37532	2	0	0	0	0	0	0	0
2416	RTA00000522F.d.06.1	74809	1	0	0	0	0	0	0	0
2418	RTA00000427F.e.10.1	64599	1	0	0	0	0	0	0	0
2419	RTA00000527F.c.16.1	22908	3	0	0	0	0	0	0	0
2421	RTA00000523F.f.17.1	63984	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2423	RTA00000527F.p.24.1	36832	2	0	0	0	0	0	0	0
2424	RTA00000425F.n.17.1	78304	1	0	0	0	0	0	0	0
2426	RTA00000425F.e.07.1	75992	1	0	0	0	0	0	0	0
2428	RTA00000523F.h.08.1	62893	1	0	0	0	0	0	0	0
2429	RTA00000522F.o.10.1	78798	1	0	0	0	0	0	0	0
2430	RTA00000425F.l.10.1	26893	1	0	0	0	0	0	0	0
2431	RTA00000427F.f.16.1	64122	1	0	0	0	0	0	0	0
2434	RTA00000425F.i.10.1	78736	1	0	0	0	0	0	0	0
2435	RTA00000426F.m.12.1	63740	1	0	0	0	0	0	0	0
2436	RTA00000527F.g.12.1	37746	2	0	0	0	0	0	0	0
2439	RTA00000425F.i.18.1	42255	1	1	0	0	0	0	0	0
2441	RTA00000424F.j.13.1	74485	1	0	0	0	0	0	0	0
2445	RTA00000424F.k.10.1	73232	1	0	0	0	0	0	0	0
2446	RTA00000522F.i.07.2	78377	1	0	0	0	0	0	0	0
2448	RTA00000522F.b.08.1	26915	1	0	0	0	0	0	0	0
2449	RTA00000522F.l.08.1	78781	1	0	0	0	0	0	0	0
2450	RTA00000525F.a.14.1	37566	2	0	0	0	0	0	0	0
2451	RTA00000424F.g.08.1	74928	1	0	0	0	0	0	0	0
2452	RTA00000425F.l.09.1	75251	1	0	0	0	0	0	0	0
2453	RTA00000522F.o.20.1	74853	1	0	0	0	0	0	0	0
2454	RTA00000527F.j.04.2	11809	3	1	0	0	0	0	0	0
2456	RTA00000523F.c.13.1	40668	1	1	0	0	0	0	0	0
2457	RTA00000427F.i.21.1	65540	1	0	0	0	0	0	0	0
2459	RTA00000522F.h.02.1	74947	1	0	0	0	0	0	0	0
2460	RTA00000522F.g.10.1	74294	1	0	0	0	0	0	0	0
2464	RTA00000425F.k.16.1	75282	1	0	0	0	0	0	0	0
2465	RTA00000525F.b.09.1	23472	2	1	0	0	0	0	0	0
2466	RTA00000522F.j.08.2	76613	1	0	0	0	0	0	0	0
2468	RTA00000523F.f.19.1	34169	1	1	0	0	0	0	0	0
2469	RTA00000425F.j.18.1	75561	1	0	0	0	0	1	0	0
2470	RTA00000426F.m.04.1	36865	2	0	0	0	0	0	0	0
2471	RTA00000527F.g.21.1	36028	2	0	0	0	0	0	0	0
2473	RTA00000525F.a.22.1	36848	2	0	0	0	0	0	0	0
2474	RTA00000522F.p.22.1	73322	1	0	0	0	0	0	0	0
2475	RTA00000424F.d.12.2	74342	1	0	0	0	0	0	0	0
2476	RTA00000424F.g.24.1	79156	1	0	0	0	0	0	0	0
2477	RTA00000427F.a.10.1	65370	1	0	0	0	0	0	0	0
2478	RTA00000426F.h.20.1	23187	3	0	0	0	0	0	0	0
2479	RTA00000424F.d.12.3	74342	1	0	0	0	0	0	0	0

SEQ ID NO:	Sequence Name	cluster	lib 1 clones	lib 2 clones	lib 15 clones	lib 16 clones	lib 17 clones	lib 18 clones	lib 19 clones	lib 20 clones
2480	RTA00000425F.c.03.1	74643	1	0	0	0	0	0	0	0
2481	RTA00000523F.f.16.1	26522	1	0	0	0	0	0	0	0
2482	RTA00000427F.f.15.1	66734	1	0	0	0	0	0	0	0
2485	RTA00000522F.p.18.1	76376	1	0	0	0	0	0	0	0
2493	RTA00000522F.g.18.1	73226	1	0	0	0	0	0	0	0
2495	RTA00000522F.h.05.1	73358	1	0	0	0	0	0	0	0
2497	RTA00000425F.n.16.1	18265	1	0	0	0	0	0	0	0
2498	RTA00000527F.l.21.1	36439	2	0	0	0	0	0	0	0
2501	RTA00000424F.d.17.3	73958	1	0	0	0	0	0	0	0
2502	RTA00000523F.j.02.1	62853	1	0	0	0	0	0	0	0

Table 21. Clones Deposited on January 22, 1999

cDNA Library Ref No.	cDNA ES17	cDNA ES18	cDNA ES19
ATCC Accession No.	ATCC No.	ATCC No.	ATCC No.
Clone Names in Library	M00001368A:D07	M00001594A:D06	M00003906A:F04
	M00003917A:D02	M00001613D:H10	M00003908A:F12
	M00001673A:A04	M00001596D:E10	M00003914A:G09
	M00003868B:G11	M00001592C:G04	M00003915C:H04
	M00003917C:D03	M00001599D:A09	M00003905D:B08
	M00003791C:E09	M00001619B:A09	M00003908C:G09
	M00003870A:C05	M00001593B:E11	M00003914B:A11
	M00003922A:D02	M00001605A:E06	M00003916C:C05
	M00003861C:H02	M00001608A:D03	M00003959A:A03
	M00003931B:A11	M00001616C:A02	M00003905D:C08
	M00001679D:B05	M00001617A:D06	M00003908D:D12
	M00001679C:D05	M00001595C:E01	M00003901B:H04
	M00001687A:G01	M00001616C:A11	M00004031A:E01
	M00003945A:E09	M00001608C:E11	M00004029C:C12
	M00003908A:H09	M00001610C:E06	M00003911A:F10
	M00001649B:G12	M00001612B:D11	M00003914C:F09
	M00003813D:H12	M00001618B:E05	M00003963D:B05
	M00004087C:D03	M00001621C:C10	M00003986C:E09
	M00004269B:C08	M00001647A:H08	M00004031A:F07
	M00004348A:A02	M00001631D:B10	M00003907C:C02
	M00001679C:D01	M00001608D:E09	M00003911B:F08
	M00001490A:E11	M00001641B:C10	M00003914C:H05
	M00001387A:E10	M00001641D:E02	M00003918C:C12
	M00001397B:G03	M00001630D:H10	M00003914C:C02
	M00001441D:E04	M00001585C:D10	M00003914A:E04
	M00001352C:G09	M00001560A:H10	M00003903B:D03
	M00001370D:A12	M00001573B:C06	M00003905A:F09
	M00001387B:A06	M00001660C:D11	M00003867C:E11
	M00001397C:A10	M00001641C:C05	M00003870B:B08
	M00001536D:G02	M00001578B:B05	M00003879D:A08
	M00003895C:A10	M00001587C:C10	M00003891D:B10
	M00001464B:B03	M00001590B:C07	M00003901C:A08
	M00004370A:G05	M00001554A:E04	M00003903C:C04
	M00001490B:H11	M00001570C:G06	M00003905A:F10
	M00001530B:D10	M00001576A:B09	M00003906C:D06
	M00001579C:E09	M00001582A:H01	M00003907D:A12
	M00001587A:H03	M00001582B:E12	M00003905C:G11
	M00001457C:H12	M00001615B:F07	M00003914D:D10
	M00001535C:E01	M00001571C:A04	M00003972A:G09
	M00001561D:C05	M00001573D:D10	M00003975D:C06
	M00001589A:C01	M00001576A:F11	M00003905C:B02
	M00001664D:G07	M00001579C:G05	M00003907D:F11
	M00001565A:H09	M00001582D:A02	M00003914A:G06
	M00001381C:B08	M00001589B:E07	M00003914D:E03
	M00001395C:F11	M00001575B:B02	M00003972C:F08
	M00001429D:F11	M00001578C:G06	M00003976C:D06
	M00001449A:F01	M00001591A:B08	M00003907C:C04
	M00001391C:H02	M00001607A:F11	M00003905B:C06
	M00001429D:H12	M00001579C:E06	M00004088C:A12
	M00001450A:G11	M00001661C:F11	M00004103C:D04
	M00001344B:F12	M00001650B:C10	M00004107A:D01

cDNA Library Ref No. ATCC Accession No.	cDNA ES17 ATCC No.	cDNA ES18 ATCC No.	cDNA ES19 ATCC No.
	M00001391D:C06	M00001654C:E04	M00004110A:E04
	M00003971A:A06	M00001656B:A08	M00004062A:H06
	M00001346A:E04	M00001662C:B02	M00004075D:C10
	M00001455C:G07	M00001656B:D05	M00004081D:H09
	M00001402D:F02	M00001661C:F10	M00004089A:B08
	M00001438D:C06	M00001663A:C11	M00004103D:F10
	M00001349B:G05	M00001669A:C10	M00004107B:B04
	M00001389C:A08	M00001651B:B12	M00004032C:B02
	M00001439B:A10	M00001653B:E06	M00004078C:F04
	M00001455B:A09	M00001659C:F02	M00004038B:H10
	M00001441B:D11	M00001661B:F03	M00004089A:E02
	M00001453A:B01	M00001663C:F10	M00004096B:F05
	M00001456D:E08	M00001669A:G12	M00004104C:H12
	M00001399A:C03	M00001674D:C10	M00004110D:A10
	M00004496C:H03	M00001651B:E06	M00004036D:F02
	M00004135D:G02	M00001651C:C05	M00004088C:E04
	M00004692A:E07	M00001657C:C07	M00004104D:A04
	M00004374D:E10	M00001662A:C12	M00004107D:E12
	M00004405D:C04	M00001663D:C06	M00004115D:D08
	M00004312B:H07	M00001590B:C05	M00003846A:D03
	M00003976C:A10	M00001483C:G06	M00004072C:F08
	M00004043A:D02	M00001653A:G07	M00004039B:G08
	M00004081C:H06	M00001625B:C10	M00003986D:D02
	M00004050D:A06	M00001626C:D12	M00003914A:B07
	M00001361B:C07	M00001634D:D02	M00003914D:B02
	M00004341B:G03	M00001641C:C06	M00003971B:B07
	M00001342B:E01	M00001642D:F02	M00003978C:A03
	M00004064D:A11	M00001647B:E04	M00003983B:C08
	M00004087A:G08	M00001632B:E05	M00004033D:D07
	M00004344B:H04	M00001639A:C11	M00004072D:H12
	M00004497A:H03	M00001642D:G10	M00004077B:H11
	M00001338C:E10	M00001624A:G11	M00004080A:F01
	M00001366D:E12	M00001626C:G08	M00004092C:B03
	M00001390D:E03	M00001672D:D04	M00004037B:C04
	M00001413B:H09	M00001639A:H06	M00004073C:D04
	M00004271B:B06	M00001662C:A04	M00004081A:A08
	M00004151D:E03	M00001641B:B01	M00004085B:B05
	M00001660B:C04	M00001673C:A02	M00004090C:C07
	M00003802D:B11	M00001650A:A12	M00004086D:B09
	M00001579C:E08	M00001659D:D03	M00004088D:B03
	M00001557D:C08	M00001661B:B05	M00004090C:C10
	M00003779B:E12	M00001671D:E10	M00004102C:D09
	M00001638A:D10	M00001652D:A06	M00004105C:E09
	M00003794A:B03	M00001654C:D05	M00004035A:G10
	M00001616C:F07	M00001656A:B07	M00003906A:H07
	M00001679A:F01	M00001647B:C09	M00004083B:G03
	M00001604C:E09	M00001635A:C06	M00001675B:E02
	M00001653B:E09	M00001482D:A04	M00003793C:D09
	M00001585A:F07	M00001485C:B10	M00003762B:H09
	M00003811D:A12	M00001457D:A07	M00001694C:F12
	M00001653C:F12	M00001461A:E05	M00001678D:C11
	M00001679D:F06	M00001477A:G07	M00001677D:B07

cDNA Library Ref No.	cDNA ES17	cDNA ES18	cDNA ES19
ATCC Accession No.	ATCC No.	ATCC No.	ATCC No.
	M00003751D:B02	M00001479D:H03	M00001677B:A02
	M00003801A:B10	M00001482C:D02	M00001675B:H03
	M00003844C:A08	M00001484D:G05	M00003808D:D04
	M00001636C:C01	M00001459B:D03	M00003752B:C02
	M00001669C:B01	M00001464B:C11	M00003819D:B11
	M00003755A:A09	M00001511A:A05	M00001677D:B02
	M00003798D:H08	M00001477B:C02	M00001694C:G04
	M00001444C:D05	M00001471A:D04	M00003789C:F06
	M00004040B:F10	M00001485C:H10	M00001678C:C06
	M00001355A:C12	M00001485D:E05	M00001675B:D02
	M00001401A:H07	M00001487C:G03	M00003750C:H05
	M00001393B:B09	M00001514A:B04	M00001694A:B12
	M00001409D:F11	M00001530C:G10	M00001677B:H06
	M00001387B:H07	M00001534A:G06	M00001675C:G01
	M00001394C:C11	M00001539A:C12	M00001675B:C01
	M00001344A:H07	M00001547A:F11	M00003857B:F07
	M00001490C:D07	M00001550D:A04	M00003812B:D07
	M00001352C:F06	M00001460A:F07	M00001694B:B08
	M00001476D:G03	M00001472C:A01	M00001677B:E06
	M00001399C:D09	M00001481B:A07	M00004037A:E04
	M00001347C:G08	M00001456D:F05	M00003870A:H01
	M00001453D:G12	M00001456D:G11	M00003842C:D11
	M00001382A:F04	M00001477D:F10	M00003828B:F09
	M00001392D:H04	M00001481A:G06	M00003856C:H09
	M00001429C:G12	M00001464A:B03	M00003851A:C10
	M00001454A:C11	M00001469A:G11	M00003841C:E04
	M00001517B:G08	M00001478B:D07	M00003837C:G08
	M00001535A:D02	M00001473A:C11	M00003828B:E07
	M00001352A:E12	M00001457A:G03	M00003772C:B12
	M00001381B:F06	M00001669B:G02	M00001677D:F03
	M00004117A:D11	M00001479D:G06	M00001678B:B12
	M00004217C:D03	M00001473D:B11	M00001678D:G03
	M00004270A:F11	M00001475A:A12	M00001675C:F01
	M00003996A:A06	M00001460A:G07	M00003809A:H04
	M00004056B:D09	M00001464A:D03	M00003771D:G05
	M00004142A:B12	M00001473D:G01	M00001678A:F05
	M00001396D:B03	M00001476D:C05	M00001677B:B06
	M00001370D:E12	M00001484A:A10	M00003794A:E12
	M00001390C:C11	M00001457C:F02	M00003771B:E05
	M00003989A:H11	M00001459B:A12	M00001678A:A11
	M00001426A:A09	M00001464A:E07	M00003805B:C04
	M00004498D:D05	M00001467A:B03	M00001680B:E10
	M00001391B:G12	M00001514A:B08	M00001679B:H07
	M00001391D:D10	M00001464A:B07	M00003904D:B12
	M00001376B:A02	M00001579A:C03	M00003856C:B08
	M00001405B:D07	M00001517A:G08	M00003858D:G06
	M00001368A:A03	M00001530B:G09	M00003870B:F04
	M00001392D:B11	M00001538A:F12	M00003871C:B05
	M00003900D:B10	M00001540C:B03	M00003875A:C04
	M00001494B:C01	M00001547A:F06	M00003901B:A09
	M00001352C:A05	M00001550A:F07	M00003901C:D03
	M00001408B:G06	M00001567B:G11	M00003904C:B06

cDNA Library Ref No. ATCC Accession No.	cDNA ES17 ATCC No.	cDNA ES18 ATCC No.	cDNA ES19 ATCC No.
	M00004252C:E03	M00001572A:A10	M00003901C:F09
	M00003901C:A03	M00001575B:G01	M00003904D:B10
	M00004071D:A10	M00001487D:C11	M00003850D:H11
	M00001377B:H01	M00001577B:A03	M00003902B:D06
	M00003939A:A02	M00001539D:E10	M00003879A:C01
	M00004250D:D10	M00001587A:F05	M00003877D:G05
	M00004290A:B03	M00001560A:F03	M00003881D:C12
	M00003911D:B04	M00001569B:G11	M00003903A:H09
	M00004128B:G01	M00001573A:A06	M00003905A:A06
	M00004142A:D08	M00001575D:A10	M00003875D:D09
	M00003977A:E04	M00001583A:D01	M00003879B:A06
	M00004236C:D10	M00001587A:F08	M00003823D:G05
	M00004388B:A08	M00001590B:B02	M00003763A:C01
	M00004409B:A11	M00001553A:E07	M00003903B:C02
	M00003965A:B11	M00001560A:H06	M00003905A:E07
	M00003988A:E10	M00001589C:A11	M00003867A:D12
	M00004138A:H09	M00001538A:C08	M00003857C:C09
	M00003933C:D06	M00001531A:H03	M00003829C:D10
	M00004193C:G11	M00001548A:G01	M00003839D:E02
	M00004039C:C01	M00001531A:H07	M00003841C:F03
	M00003924B:D04	M00001542A:E04	M00003903D:C06
	M00004375C:D01	M00001487A:F10	M00003852D:E08
		M00001503C:G05	M00003845D:A09
		M00001511A:G08	M00003824A:G10
		M00001539A:H12	M00003841C:F06
		M00001542A:F06	M00003848A:C09
		M00001549A:F01	M00003857C:F11
		M00001514A:A12	M00003816C:C01
		M00001516A:D05	M00003843A:E08
		M00001546C:C07	M00003850A:F06
		M00001549A:H11	M00003813B:A11
		M00001538A:D03	M00003855C:F10
		M00001544A:C09	M00003850D:B05
		M00001546B:F12	M00003841D:F06
		M00001550A:D09	M00003858B:G05
		M00001487B:F02	M00003854D:A12
		M00001513A:G07	M00003857C:G01
		M00001530A:F12	M00003816C:E09
		M00001538A:D12	M00003813A:G04
		M00001587A:G06	M00003850D:A05
		M00001551A:D04	
		M00001485B:C03	

Table 22. Clones Deposited on January 22, 1999

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES20 ATCC No. 207067	cDNA Ref No. ES27 ATCC No. 207074	cDNA Library Ref ES28 ATCC No. 207075
Clone Names in Library	M00004891D:A07	M00001623B:G07	M00001550D:H02
	M00004118B:C11	M00001619D:G05	M00001549C:D02
	M00004105A:B10	M00001616C:C09	M00001549A:A09
	M00004099A:F11	M00001615C:F03	M00001548A:B11
	M00004037C:D07	M00001614D:D09	M00001546C:G10
	M00004033D:C05	M00001608B:A03	M00001544C:C06
	M00003983D:A09	M00001607D:F07	M00003820B:C05
	M00004029B:H08	M00001623D:C10	M00001543A:H12
	M00004927A:A02	M00001599B:E09	M00001540C:B10
	M00003983C:F10	M00001632C:C09	M00001552B:G05
	M00003980B:C06	M00001605C:D12	M00001543C:F01
	M00004033D:B07	M00001625D:C07	M00001552D:G08
	M00004034C:E08	M00001629B:E06	M00001554B:B07
	M00005100B:H07	M00001594A:B12	M00001555A:B01
	M00005136A:D10	M00001632C:A02	M00001557A:F01
	M00005173D:H02	M00001567C:H12	M00001558A:E11
	M00004891D:C11	M00001635C:A03	M00001561C:E11
	M00004101A:F07	M00001636C:H09	M00001571D:B11
	M00003982B:B06	M00001638A:E07	M00001563B:D11
	M00004108C:E01	M00001639A:F10	M00001569C:B06
	M00005136D:B07	M00001656C:G08	M00001539B:H06
	M00004118D:A11	M00001632A:F12	M00001571B:E03
	M00005102C:C01	M00001557A:D02	M00001561D:C11
	M00005177C:A01	M00001529B:C04	M00001487C:D06
	M00004927C:H11	M00001534B:C12	M00001454B:D08
	M00005174D:B02	M00001535D:C01	M00003772D:E10
	M00004027A:D06	M00001536D:A12	M00001573C:D03
	M00005217A:G10	M00001540B:C09	M00001454D:E05
	M00003984A:B06	M00001540D:D02	M00001455D:F09
	M00003851C:D07	M00001541C:B07	M00001457C:C11
	M00003959C:G06	M00001546B:B02	M00001459B:C09
	M00005100B:G11	M00001575B:C09	M00001460A:E01
	M00005213C:G01	M00001554B:C07	M00001460C:H02
	M00003982B:H07	M00001578D:C04	M00001456A:H02
	M00004029C:B03	M00001557C:H07	M00001477B:F04
	M00004033D:G06	M00001558B:D08	M00003845D:B04
	M00004091B:H09	M00001560D:A03	M00001488A:E01
	M00003959D:A04	M00001561C:F06	M00001492D:A11
	M00004030D:B06	M00001564D:C09	M00001496C:G10
	M00004034C:C06	M00003748B:F02	M00001499A:A05
	M00004030C:D12	M00001570D:A03	M00001500A:B02
	M00003982C:H10	M00001660C:B12	M00001500D:E10
	M00003971C:F09	M00001577B:H02	M00001513D:A03
	M00004031B:A06	M00001548A:A08	M00001528A:C11
	M00003966B:D02	M00003868B:D12	M00001528C:H04
	M00004028B:G08	M00001718D:F07	M00001531B:E09
	M00004031C:H10	M00003829C:A11	M00001463A:F06

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES20 ATCC No. 207067	cDNA Ref No. ES27 ATCC No. 207074	cDNA Library Ref ES28 ATCC No. 207075
	M00004076D:B09	M00003832B:E01	M00003755A:B03
	M00004092D:B11	M00003842B:D09	M00001653B:G07
	M00003981C:F05	M00003845A:H12	M00001654D:G11
	M00004031D:F05	M00003847B:G03	M00001656B:A07
	M00004097B:D03	M00003847C:E09	M00001664B:D06
	M00003986D:G07	M00003853D:G08	M00001664C:H10
	M00004033B:C02	M00003828A:E04	M00001680B:C01
	M00004037B:A04	M00003867C:H09	M00001681A:F03
	M00004092C:B12	M00003822A:F02	M00001684B:G03
	M00005140D:G09	M00003868C:H10	M00001771A:A07
	M00004897D:G05	M00003871A:A05	M00003774C:D02
	M00004960B:D12	M00003879C:G10	M00003754D:D02
	M00005134C:G04	M00003880C:F10	M00001640B:F03
	M00005139A:F01	M00003881D:D06	M00003763B:H01
	M00005176A:C12	M00003884D:G07	M00003812C:A05
	M00005178A:A07	M00003887A:A06	M00003803C:D09
	M00005212A:A02	M00003889A:D10	M00003801B:B10
	M00005229D:H07	M00003889D:B09	M00003798D:E03
	M00004115C:H04	M00003858D:F12	M00003773B:G01
	M00004687A:C03	M00003774B:B08	M00003771A:G10
	M00004900C:E11	M00001680D:D02	M00001452A:E07
	M00004695B:E04	M00001528A:F09	M00004029B:F11
	M00005134D:A06	M00003748A:B07	M00003751B:A05
	M00004103B:B07	M00001655A:F06	M00001609B:A11
	M00005177A:B06	M00003750A:D01	M00001573D:F10
	M00005178A:A08	M00003761D:E02	M00001579C:B11
	M00004104D:B05	M00003763D:E10	M00001579C:H10
	M00004117B:G01	M00003768A:E02	M00001579D:G07
	M00004900D:B10	M00003829B:G03	M00001583B:E10
	M00005134D:H03	M00003772A:D07	M00001586D:E02
	M00005173C:A02	M00001661B:C08	M00001587D:A10
	M00005177A:H09	M00003778A:D08	M00001589A:D12
	M00005178B:H01	M00003799A:D09	M00001590C:H08
	M00005216C:B09	M00003800A:C09	M00001651B:A11
	M00003826B:E11	M00003804A:H04	M00001597A:E12
	M00001596A:G06	M00003806D:G05	M00001649C:B10
	M00005100B:D02	M00003808C:B05	M00001614A:E06
	M00005137A:E01	M00003811A:E03	M00001615C:D02
	M00004119A:A06	M00003815D:H09	M00001621D:D03
	M00004891D:E07	M00003818B:G12	M00001623D:G03
	M00004958B:D01	M00003769B:D03	M00001624A:F09
	M00005102C:F09	M00001390A:A09	M00001624C:A06
	M00005136D:C01	M00001432A:E06	M00001630B:A11
	M00005174D:H02	M00001381A:D02	M00001634B:C10
	M00005177C:B04	M00001383A:G04	M00001639D:B07
	M00005218B:D09	M00001384C:E03	M00001573D:F04
	M00004114B:D09	M00001384D:H07	M00004156B:A12
	M00004119D:A07	M00001385B:F10	M00004319D:G09
	M00004895C:G05	M00001385C:H11	M00004096A:G02

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES20 ATCC No. 207067	cDNA Ref No. ES27 ATCC No. 207074	cDNA Library Ref ES28 ATCC No. 207075
	M00004235A:A12	M00001386A:C02	M00004101C:G08
	M00005134B:E01	M00001372C:F07	M00004102A:H02
	M00004115C:G03	M00001389D:G11	M00004108A:A09
	M00005175B:H04	M00001371D:G01	M00004111D:D11
	M00005214B:D11	M00001392C:D10	M00004115D:C08
	M00004102D:B05	M00001392D:H06	M00004118D:E08
	M00004115A:B12	M00001397B:B09	M00004121C:F06
	M00004119D:H06	M00001398A:G03	M00004131B:H09
	M00004897D:F03	M00001400A:F06	M00004141D:A09
	M00004960B:A09	M00001410B:G05	M00004090A:F09
	M00005134C:E11	M00001413A:F02	M00004146A:C08
	M00005138B:D12	M00001415B:E09	M00004078B:A11
	M00005176A:A05	M00001425A:C11	M00004176B:E08
	M00005214C:A09	M00001386A:D11	M00004188C:A09
	M00004102C:D01	M00001354C:B06	M00004233C:H09
	M00004960B:A08	M00001339D:G02	M00004241D:F11
	M00001476D:A09	M00001660A:C12	M00004246C:A09
	M00001572A:B06	M00001528A:A01	M00004247C:C12
	M00005217D:F12	M00001343D:C04	M00004248B:E08
	M00005233A:G08	M00001347B:E01	M00004257C:H06
	M00005236B:F10	M00001348A:D04	M00004260D:C12
	M00005259B:C01	M00001349C:C05	M00004295B:D02
	M00005254D:B08	M00001350A:D06	M00004040D:F01
	M00005259C:B05	M00001352D:C05	M00004142D:E10
	M00001575A:D06	M00001380C:E05	M00003853D:D03
	M00005259D:H08	M00001354B:B10	M00003860D:H07
	M00003813C:D08	M00001380C:F02	M00003878C:E04
	M00001530D:E06	M00001354C:C10	M00003879A:G05
	M00004891B:B12	M00001355B:G11	M00003880B:C08
	M00001596B:C11	M00001356D:F06	M00003881A:D09
	M00004300C:H09	M00001360D:E11	M00003881C:G09
	M00001486D:D12	M00001361C:H11	M00003901B:A05
	M00001585D:F03	M00001362C:A10	M00003904D:D10
	M00001596B:D09	M00001363C:H02	M00003905C:G10
	M00001570D:E06	M00001366D:G02	M00003906B:F12
	M00001582C:E01	M00001369A:H12	M00003909A:H04
	M00001586C:E06	M00001352D:D02	M00004091B:D11
	M00001593B:D10	M00001485D:B10	M00003963A:E03
	M00001595C:H11	M00001457B:E03	M00004353C:H07
	M00001596B:H05	M00001457C:C12	M00003919A:A10
	M00001576A:C11	M00001458C:E01	M00003938A:B04
	M00001596C:F09	M00001462B:A10	M00003939C:F04
	M00001567A:H05	M00001464D:F06	M00003946D:C11
	M00001585D:D11	M00001467D:H05	M00003979A:F03
	M00004688A:A02	M00001468B:H06	M00003985C:F01
	M00004927A:E06	M00001505C:H01	M00003997B:G07
	M00005229D:H09	M00001470A:H01	M00003860D:A01
	M00004117B:A12	M00001457A:B07	M00004035A:A04
	M00004187D:G09	M00001479B:A01	M00004042D:H02
	M00005173B:F01	M00001469D:D02	M00004073B:B01

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES20 ATCC No. 207067	cDNA Ref No. ES27 ATCC No. 207074	cDNA Library Ref ES28 ATCC No. 207075
	M00005218A:G05	M00001487A:A05	M00003946A:H10
	M00004118A:H08	M00001352C:H02	M00001423D:A09
	M00005134A:D11	M00001488D:C10	M00004314B:G07
	M00005176C:C09	M00001490C:C12	M00001405D:D11
	M00005230D:F06	M00001493B:D09	M00001408A:H04
	M00005234D:B04	M00001504D:D11	M00001408D:D04
	M00005101C:E09	M00001376B:C06	M00001411D:F05
	M00004206A:E02	M00001506B:D09	M00001412A:E04
	M00001570C:A05	M00001511B:C06	M00001413A:F03
	M00005231A:H04	M00001476B:F10	M00001417B:C04
	M00005235A:A03	M00001450D:D04	M00001417D:A04
	M00004118B:B04	M00001433A:G07	M00001418B:F07
	M00005136D:D06	M00001470C:B10	M00001419D:C10
	M00005231C:B01	M00001437D:C04	M00001402B:F12
	M00004153B:B03	M00001447C:C01	M00001423A:G05
	M00004897C:D06	M00001448B:F06	M00001401C:H03
	M00005136D:G06	M00001449D:A06	M00001423D:D12
	M00005212B:A02	M00001433B:H11	M00001424B:H04
	M00005232A:C10	M00001451D:C10	M00001428B:A09
	M00004692A:H10	M00001452A:C07	M00001430A:A02
	M00005101C:B09	M00001453C:A11	M00001432D:F05
	M00004144A:F04	M00001456B:C09	M00001438B:B09
	M00003852B:D11	M00001454B:G03	M00001445B:E04
	M00001660D:E05	M00001454B:G07	M00001445C:A08
	M00003808A:F09	M00001454C:C08	M00001446C:D09
	M00001656A:D10	M00001454C:F02	M00001448A:G09
	M00001671A:H06	M00001454D:D06	M00001449C:H12
	M00003809C:H07	M00001456B:F10	M00001422C:F12
	M00003853C:C06	M00001455D:A09	M00001352C:H10
	M00003860A:A08	M00001455D:A11	M00004375A:H01
	M00003822B:D08	M00001448D:F09	M00004380B:A05
	M00003845A:E12		M00004444B:D11
	M00003854C:C02		M00001338B:E02
	M00003860B:G09		M00001341A:F12
	M00003822B:G01		M00001344A:G07
	M00001670A:C11		M00001345A:G11
	M00003852A:B03		M00001345B:E10
	M00003829D:A11		M00001345C:B01
	M00003854C:F01		M00001346B:B07
	M00003856B:C04		M00001405B:E09
	M00003905A:H11		M00001352B:F04
	M00001530A:F11		M00001451C:E01
	M00003840B:E07		M00001361A:H07
	M00003905B:G03		M00001362B:H06
	M00003840B:E08		M00001372C:G12
	M00003855A:C12		M00001375B:G12
	M00003905B:H05		M00001376A:C05
	M00003826B:B04		M00001376B:A08
	M00003851C:B06		M00001377C:E12
	M00003853B:C08		M00001382B:F12

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES20 ATCC No. 207067	cDNA Ref No. ES27 ATCC No. 207074	cDNA Library Ref ES28 ATCC No. 207075
	M00003829A:F03		M00001385A:F12
	M00001638C:G01		M00001394A:E04
	M00003845D:B02		M00001395A:C09
	M00001653D:G07		M00001396A:H03
	M00001578B:A02		M00001350B:G11
	M00001590B:H10		
	M00001595C:A09		
	M00001596A:E07		
	M00001607A:B06		
	M00001607A:D10		
	M00001652C:B09		
	M00001671B:F02		
	M00001632C:D08		
	M00001638C:H07		
	M00001652D:B09		
	M00001614C:E11		
	M00001633B:B11		
	M00001651C:A04		
	M00001639D:G12		
	M00001671C:F11		
	M00001638A:B04		
	M00001637C:H12		
	M00001669B:H06		
	M00001639D:F02		
	M00001590A:C08		
	M00001636A:C02		
	M00001614A:A04		
	M00001639D:G06		

Table 23. Library Deposited on January 22, 1999

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES29 ATCC No. 207076	cDNA Library Ref ES30 ATCC No. 207077
Clone Names in Library	M00001449D:B01	M00001594D:B08
	M00001476D:F03	M00001593A:B07
	M00001456C:B12	M00001594A:C01
	M00001469B:B01	M00001594A:D08
	M00001471A:B04	M00001594A:G09
	M00001472A:D08	M00001595C:B05
	M00001473A:A07	M00001594B:F12
	M00001473C:D09	M00001596D:E03
	M00001475B:C04	M00001594D:C03
	M00001475C:G11	M00001592C:F11
	M00001476A:D11	M00001590D:G07
	M00001476B:D10	M00001595D:A04
	M00001468A:C05	M00001595D:G03
	M00001476C:C11	M00001601A:A06
	M00001467A:H07	M00001590C:F10
	M00001477B:E02	M00001589B:B08
	M00001478B:H08	M00001589C:E06
	M00001479C:E01	M00001611B:A05
	M00001480A:D03	M00001601A:E02
	M00001480C:A05	M00001587A:D01
	M00001481A:H08	M00001591B:B12
	M00001481B:D09	M00001590B:G08
	M00001482A:H05	M00001592C:E05
	M00001482D:H11	M00001591B:B06
	M00001483C:G09	M00001591D:C07
	M00001485A:C05	M00001591D:F06
	M00001476B:F08	M00001592A:E02
	M00001460A:E11	M00001592A:H05
	M00001456C:C11	M00001592B:A04
	M00001457A:C05	M00001587A:B10
	M00001457A:G12	M00001609D:G10
	M00001458A:A11	M00005231D:B09
	M00001458C:D10	M00001614B:E08
	M00001458D:A01	M00005217C:C01
	M00001458D:A02	M00001587A:B01
	M00001458D:C11	M00001613D:B03
	M00001458D:D01	M00001613A:F03
	M00001459B:C11	M00001611C:H11
	M00001468A:H10	M00001611C:C12
	M00001460A:C10	M00001611B:E06
	M00001485B:F05	M00001611B:A09
	M00001460A:H11	M00001610D:D05
	M00001461A:F05	M00001610B:C07
	M00001462A:D03	M00001610C:E07
	M00001464A:B02	M00001610A:E09

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES29 ATCC No. 207076	cDNA Library Ref ES30 ATCC No. 207077
	M00001464A:E10	M00001601A:E12
	M00001465A:B12	M00001609B:C09
	M00001465A:C12	M00001608D:D11
	M00001465A:E10	M00001608B:A09
	M00001465A:G06	M00001607D:F06
	M00001466A:F08	M00001607B:C05
	M00001467A:C10	M00001606A:H09
	M00001460A:B12	M00001605A:H03
	M00001545A:B12	M00001605A:E09
	M00001535A:D10	M00001605A:A06
	M00001536A:F11	M00001604A:C11
	M00001537A:H05	M00001604A:C07
	M00001539A:E01	M00001604A:B08
	M00001539A:H02	M00001604A:A09
	M00001539B:G07	M00001610A:H05
	M00001539D:B10	M00005214B:A06
	M00001540D:E02	M00005228A:A09
	M00001541B:E05	M00001567A:B09
	M00001542A:G12	M00001561A:D01
	M00001485B:D09	M00001559A:C08
	M00001545A:B10	M00001559A:A11
	M00001533A:G05	M00001558A:G09
	M00001545A:F02	M00001555A:B12
	M00001545A:G05	M00001554A:A08
	M00001546A:D08	M00001552A:H10
	M00001548A:H04	M00001552A:F06
	M00001550A:E07	M00005231C:B07
	M00001551A:A11	M00005218D:G10
	M00001551A:D06	M00001570A:H01
	M00001551A:H06	M00005214D:D10
	M00001551D:H07	M00001570C:G03
	M00001552A:E10	M00005213C:A01
	M00001450A:B08	M00005212D:F08
	M00001544A:F05	M00005212A:D10
	M00001512A:G05	M00005211C:E09
	M00001483B:D04	M00005211A:E09
	M00001485B:H03	M00005210D:C09
	M00001485C:C08	M00005179D:B03
	M00001486B:D07	M00005179B:H02
	M00001486B:E12	M00005177D:F09
	M00001487B:A11	M00005177C:G04
	M00001487B:E10	M00005177B:H02
	M00001507A:A11	M00001614D:B08
	M00001507A:B02	M00001615A:D06
	M00001507A:C05	M00005216B:D02
	M00001507A:E04	M00001579C:A01

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES29 ATCC No. 207076	cDNA Library Ref ES30 ATCC No. 207077
	M00001534A:D03	M00001585B:C03
	M00001511A:G01	M00001585B:A06
	M00001533D:A08	M00001584D:H02
	M00001513A:F05	M00001584A:G03
	M00001514A:G03	M00001583D:B08
	M00001516A:D02	M00001583B:F02
	M00001516A:F06	M00001583A:F07
	M00001517A:B11	M00001583A:A05
	M00001529D:C05	M00001582D:F02
	M00001530A:A09	M00001582D:B01
	M00001530A:E10	M00001582A:A03
	M00001532A:C01	M00001579D:H09
	M00001532D:A06	M00001567D:B03
	M00001485B:D10	M00001579C:H06
	M00001511A:A02	M00001585B:F01
	M00004249D:B08	M00001579B:F04
	M00004185D:E04	M00001579A:E03
	M00004188D:G08	M00001578C:F05
	M00004197C:F03	M00001577D:H06
	M00004198B:D02	M00001577B:F10
	M00004204D:C03	M00001576C:G05
	M00004208B:F05	M00001575D:D12
	M00004208D:B10	M00001575D:B10
	M00004210B:B05	M00001575D:A02
	M00001362D:H01	M00001573B:G08
	M00004216D:D03	M00001573A:E01
	M00004167A:H03	M00001572A:B05
	M00004275A:B03	M00001571D:F05
	M00004285C:A08	M00001579D:F04
	M00004316A:G09	M00001636A:F08
	M00004465B:D04	M00001643B:E05
	M00004493B:D09	M00001642C:G02
	M00001347B:H04	M00001642A:F03
	M00001351C:B06	M00001641D:C04
	M00001360A:G10	M00001641C:H07
	M00004216D:C03	M00001641C:F01
	M00004076D:D04	M00001641C:D02
	M00001484C:A04	M00001641B:F12
	M00001456B:G01	M00001634A:B04
	M00003972D:C09	M00001636B:G11
	M00003974C:E04	M00001649C:D05
	M00003979A:E11	M00001636A:C03
	M00003983C:F03	M00001635D:D05
	M00003989B:F11	M00001635D:C12
	M00004031D:B05	M00001635B:H02
	M00004177C:A01	M00001635B:H01

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES29 ATCC No. 207076	cDNA Library Ref ES30 ATCC No. 207077
	M00004076B:G03	M00001634D:G11
	M00004167D:A07	M00001634D:D04
	M00004078A:A06	M00001634A:H05
	M00004085A:B02	M00001641A:A11
	M00004107B:A06	M00001638B:E12
	M00004111C:E11	M00001640A:H02
	M00004130D:H01	M00001614C:E06
	M00004157D:B03	M00001636D:F09
	M00004159C:F09	M00001637A:A03
	M00004162C:A07	M00001637A:A06
	M00004135B:G01	M00001637A:E10
	M00004040A:G12	M00001637A:F10
	M00001453B:H12	M00001637C:C06
	M00001448A:E11	M00001644A:H01
	M00001448B:F09	M00001638B:E03
	M00001448B:H05	M00001649A:E11
	M00001448C:E11	M00001638B:F10
	M00001448C:F10	M00001639A:C03
	M00001448D:F12	M00001639A:G07
	M00001449B:B03	M00001639B:H01
	M00001449C:C05	M00001639B:H05
	M00001449D:G10	M00001639C:A09
	M00001448A:B12	M00001639C:C02
	M00001453A:D08	M00001649C:E11
	M00001451B:A04	M00001649C:H10
	M00001454A:F11	M00001637C:E03
	M00001454A:G03	M00001617A:A08
	M00001455A:F04	M00001622A:H12
	M00001455B:E07	M00001621C:H12
	M00001455D:A06	M00001621B:G05
	M00001364B:B06	M00001620D:H02
	M00004117A:G01	M00001620D:G11
	M00001455D:D11	M00001619D:D10
	M00001456B:A06	M00001619C:C07
	M00001451A:C10	M00001619A:E05
	M00001395A:E03	M00001623A:F04
	M00001366D:C06	M00001618A:A03
	M00001365A:H10	M00001618B:D09
	M00001366D:C12	M00001617A:A01
	M00001373D:B03	M00001616D:C11
	M00001453B:F08	M00001615C:G05
	M00001444D:C01	M00001615C:A11
	M00001375B:C06	M00001615B:G07
	M00001392C:D05	M00001633D:H06
	M00001395A:A12	M00001639C:A10
	M00001395A:H02	M00001615B:A09

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES29 ATCC No. 207076	cDNA Library Ref ES30 ATCC No. 207077
	M00001397D:G08	M00001615B:G01
	M00001434A:B10	M00001618A:F10
	M00001416A:D09	M00001632C:H07
	M00001433C:F10	M00001633D:D12
	M00001416A:H02	M00001633D:D09
	M00001428D:B10	M00001618A:F08
	M00001428B:D01	M00001633D:G09
	M00001426D:D12	M00001624A:A03
	M00001400C:D02	M00001633C:F09
	M00001427C:D01	M00001633C:H05
		M00001633C:B09
		M00001633A:E06
		M00001633C:H11
		M00001632C:B10
		M00001625D:G10
		M00001631D:G05
		M00001629C:E07
		M00001629B:B08
		M00001626C:E04
		M00001626C:C11
		M00001632A:B10
		M00001624B:B10
		M00001633C:A05
		M00001625C:G05

Table 24. Clones Deposited on January 22, 1999

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES31 ATCC No. 207078	cDNA Ref No. ES32 ATCC No. 207079	cDNA Library Ref ES33 ATCC No. 207080
Clone Names in Library	M00003843A:E04	M00003906A:F12	M00005254D:A10
	M00003842C:G03	M00003906B:H06	M00005260B:E11
	M00003842A:A03	M00003906C:C05	M00005260A:F04
	M00003841D:A04	M00003907A:F01	M00005260A:A12
	M00003841B:E06	M00003907B:C03	M00005259B:D12
	M00003841C:H11	M00003907B:D05	M00005257D:H11
	M00003844A:A11	M00003918A:D08	M00005257D:G07
	M00003841C:F01	M00003918A:F09	M00005257D:A06
	M00003841C:H08	M00003918C:H10	M00005257C:G01
	M00003841C:D07	M00003924A:D08	M00005257A:H11
	M00003844D:A07	M00003958B:E11	M00005236B:H10
	M00003845D:G08	M00003958B:H08	M00005236B:G03
	M00003852C:B06	M00003960A:G07	M00005257C:E05
	M00003854B:A07	M00003971B:A10	M00001608C:D02
	M00003854B:D04	M00003972D:H02	M00001608C:G04
	M00003859D:C05	M00003973C:C03	M00001608D:F11
	M00003860B:F11	M00003974B:B11	M00001609C:A12
	M00003867B:G07	M00003974D:F02	M00001609C:G05
	M00003867B:G08	M00003974D:H04	M00001610C:B07
	M00003841B:E03	M00003975C:F07	M00001612D:D12
	M00003822D:B10	M00003977C:A06	M00001612D:F06
	M00003867D:A06	M00003977C:B03	M00001613A:D02
	M00003868B:G06	M00003977D:A03	M00001614A:B10
	M00003867B:D10	M00003977D:A06	M00001614C:G07
	M00003831C:G05	M00003977D:D04	M00001615C:E07
	M00003901C:B01	M00003978D:G04	M00001625C:F10
	M00003868C:C07	M00003980A:F04	M00001626D:A02
	M00003820A:A08	M00003980B:C11	M00001629A:H09
	M00003820B:D07	M00003981C:B04	M00001629D:B10
	M00003820B:D10	M00003982A:B12	M00001629D:D10
	M00003822D:C06	M00003982C:G04	M00001630C:F09
	M00003823B:F07	M00003984D:B08	M00001631A:D03
	M00003824C:D07	M00003985B:G04	M00001631A:F06
	M00003825B:B10	M00003985D:E10	M00001631A:F12
	M00003825B:B11	M00003986B:A08	M00001631B:H04
	M00003828A:D05	M00003986C:D09	M00001633A:F11
	M00003822D:D04	M00003986D:C08	M00001633A:G10
	M00003830C:A03	M00003987B:E12	M00001633B:A12
	M00003840D:H10	M00003987B:F08	M00001633B:E03
	M00003832A:A09	M00003987C:G03	M00001633C:A08
	M00003833B:B03	M00003988D:A08	M00001633C:E12
	M00003833B:C12	M00003989C:D03	M00001635B:B02
	M00003834B:G04	M00003989C:G05	M00001636A:H12
	M00003835A:A09	M00003989D:F12	M00001638A:C08
	M00003835B:H11	M00004029B:F01	M00001638B:C08
	M00003835D:G06	M00004029C:C05	M00001639D:C12
	M00003837C:E05	M00004029C:G10	M00001640A:F05
	M00003837C:F10	M00004030D:F11	M00001642D:G08

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES31 ATCC No. 207078	cDNA Ref No. ES32 ATCC No. 207079	cDNA Library Ref ES33 ATCC No. 207080
	M00003839A:D07	M00004034A:A01	M00001647D:G07
	M00003839D:E11	M00004034C:G02	M00001649A:E10
	M00003829C:H05	M00004034D:E09	M00001650D:D10
	M00003901B:C03	M00004035B:H09	M00001650D:F11
	M00003878C:F06	M00004036D:B04	M00001651C:D11
	M00003878C:G08	M00004036D:B09	M00001651C:G12
	M00003879A:A02	M00004038A:F02	M00001652B:D06
	M00003879A:B08	M00004038D:G06	M00001652D:G02
	M00003879A:C11	M00004039A:C03	M00001652D:G06
	M00003879A:D02	M00004039A:H11	M00001653A:A05
	M00003879B:G02	M00004039B:A05	M00001653D:H07
	M00003880B:D11	M00004039B:E12	M00001654A:E08
	M00003880C:E11	M00004040C:A01	M00001654B:A01
	M00003880C:H03	M00004051D:E01	M00001654C:D10
	M00003901B:F10	M00004072D:F09	M00001654C:G07
	M00003890B:C08	M00004073A:D10	M00001654C:G09
	M00003877C:A11	M00004075B:G09	M00001655C:C07
	M00003819D:B01	M00004076A:D12	M00001655D:E08
	M00003901B:G11	M00004076D:H07	M00001655D:H11
	M00001692A:G06	M00004078A:C11	M00001656A:H12
	M00003903C:C05	M00004078A:E05	M00001656C:C04
	M00003903C:E12	M00004078A:F07	M00001656D:C04
	M00003903D:C12	M00004078B:C11	M00001657C:C11
	M00003903D:D10	M00004078B:F12	M00001657D:A10
	M00003903D:H11	M00004079D:G08	M00001659D:A09
	M00003904A:C04	M00004081A:E02	M00001661D:D05
	M00003904B:C03	M00004081A:G01	M00001664B:E08
	M00003904C:A08	M00004081C:A10	M00001664B:F06
	M00003881B:F10	M00004083A:E08	M00001669B:C12
	M00003871D:G06	M00004083B:C01	M00001669C:B09
	M00003868D:D09	M00004086D:G08	M00001670A:F09
	M00003868D:D11	M00004087B:A12	M00001678C:F09
	M00003870C:A01	M00004087C:A01	M00001693A:H06
	M00003870C:A10	M00004088C:F01	M00003805D:E06
	M00003870C:E10	M00004088D:A11	M00003806C:A06
	M00003871A:A02	M00004088D:B05	M00003809B:A03
	M00003871A:B09	M00004088D:B10	M00003810A:A02
	M00003871A:C11	M00004090B:B04	M00003810B:B11
	M00003871A:G09	M00004090B:H06	M00003810C:B06
	M00003871C:E04	M00004092B:E05	M00003810D:H09
	M00003871C:F12	M00004093C:C02	M00003811C:C02
	M00003878C:D08	M00004096D:H03	M00003813B:F02
	M00003871D:E11	M00004099D:F01	M00003813C:H08
	M00003877C:G12	M00004100B:C07	M00003813D:B12
	M00003875A:A07	M00004103B:E09	M00003813D:C02
	M00003875A:B01	M00004105C:B05	M00003813D:G06
	M00003875B:F12	M00004105C:C08	M00003814B:C01
	M00003875C:A01	M00004107A:A12	M00003817C:A10
	M00003875C:A09	M00004107B:D07	M00003817C:G06
	M00003875C:G02	M00004108B:B02	M00003817D:D12

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES31 ATCC No. 207078	cDNA Ref No. ES32 ATCC No. 207079	cDNA Library Ref ES33 ATCC No. 207080
	M00003876B:C05	M00004108D:E07	M00003821A:H09
	M00003876C:D02	M00004108D:G04	M00003822B:G12
	M00003876C:F02	M00004110A:A10	M00003822C:A07
	M00003877B:H10	M00004110B:A07	M00003823C:B01
	M00003868D:B09	M00004118B:A03	M00003823C:C04
	M00003871D:A10	M00004118B:F01	M00003824A:G11
	M00001669D:D06	M00004118D:B05	M00003824B:C09
	M00001661A:B11	M00004119A:C09	M00003824C:A10
	M00001661B:F06	M00004136D:B02	M00003824D:D08
	M00001662A:C07	M00004137A:D06	M00003825B:F10
	M00001662A:G01	M00004139C:A12	M00003825D:F01
	M00001662B:F06	M00004149C:B02	M00003826C:F05
	M00001663C:F12	M00004159C:G12	M00003829A:B08
	M00001664A:F08	M00004169D:B11	M00003829C:E08
	M00001664D:F04	M00004187D:H06	M00003829D:D12
	M00001661A:E06	M00004228C:H03	M00003829D:F03
	M00001669A:B02	M00004244C:G07	M00003830D:B11
	M00001669B:B12	M00004358D:C02	M00003830D:H11
	M00001669C:C08	M00004690A:G08	M00003833D:H08
	M00001675A:G10	M00004891B:D01	M00003833D:H10
	M00001669D:C03	M00004891C:D04	M00003840A:C10
	M00001660B:E03	M00004895B:E12	M00003840B:F05
	M00001669D:F05	M00004895B:G04	M00003840C:C02
	M00001670B:G12	M00004895D:G07	M00003845C:D04
	M00001671A:A10	M00004898C:F03	M00003845D:A04
	M00001671B:G05	M00004899D:G06	M00003846B:C05
	M00001671C:C11	M00004959D:H12	M00003846C:F08
	M00001672D:E08	M00004960A:B08	M00003848B:E07
	M00001673A:G08	M00004960C:E10	M00003848D:G02
	M00001673B:B07	M00005100A:B02	M00003850C:G09
	M00001673B:F07	M00005100A:C01	M00003851A:A06
	M00001673D:D06	M00005101C:E12	M00003851B:D03
	M00001673D:F10	M00005102C:D03	M00003851B:E01
	M00001674A:G07	M00005134B:E08	M00003851C:F09
	M00001692D:B01	M00005139A:H03	M00003851D:H11
	M00001669C:D09	M00005140C:B10	M00003852B:G04
	M00001655C:E01	M00005140D:C06	M00003852C:F07
	M00001649D:A08	M00005178D:H04	M00003853B:C10
	M00001650A:C11	M00005210A:E06	M00003854C:C09
	M00001651A:H11	M00005212B:E01	M00003855A:A01
	M00001652A:A01	M00005212C:C03	M00003855A:F01
	M00001652B:G10	M00005212C:D02	M00003855B:B09
	M00001652D:E05	M00005212C:H02	M00003856A:G04
	M00001652D:E09	M00005212D:D09	M00003856B:A12
	M00001653B:C06	M00005212D:H01	M00003857A:E12
	M00001653B:G10	M00005216A:D09	M00003857A:H10
	M00001653C:D10	M00005216A:H01	M00003857C:E05
	M00001654D:A03	M00005217B:A06	M00003858B:G02
	M00001654D:E12	M00005218A:F09	M00003860D:E06
	M00001654D:F11	M00005228A:B03	M00003905C:F12

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES31 ATCC No. 207078	cDNA Ref No. ES32 ATCC No. 207079	cDNA Library Ref ES33 ATCC No. 207080
	M00001660C:B06	M00005228C:C05	M00003911A:D12
	M00001658D:G12	M00005229B:G12	M00003966B:A04
	M00001675C:A04	M00005229B:H04	M00003966C:A12
	M00001660B:D03	M00005229B:H06	M00003966C:F03
	M00001660B:A09	M00005229D:H03	M00003973D:F08
	M00001659D:C09	M00005230B:H09	M00003974D:E01
	M00001659D:B05	M00005232A:H12	M00003974D:H07
	M00001654D:F12	M00005233B:D04	M00003976B:E06
	M00001659A:D12	M00005233D:H07	M00003976B:H07
	M00001655A:B11	M00005235B:F10	M00003978A:E01
	M00001658B:A07	M00005236A:E04	M00003978A:E09
	M00001658A:G09	M00005236A:G10	M00003978C:A12
	M00001657D:A04	M00005236B:A12	M00003980C:E12
	M00001657B:B04	M00001448B:A07	M00003980C:F12
	M00001656B:E01	M00001448B:G07	M00003981A:A07
	M00001660B:E04	M00001448D:E11	M00003981B:B12
	M00001659C:F10	M00001455A:D10	M00003982A:G03
	M00003808C:A05	M00001455A:E11	M00003982B:C10
	M00001694D:C12	M00001476D:F12	M00003982B:H10
	M00003746C:E02	M00001478A:F12	M00003983A:D02
	M00003779D:E08	M00001482C:F09	M00003983A:F06
	M00003792A:B10	M00001485C:D07	M00003983A:G02
	M00003793D:A11	M00001485C:G06	M00003983D:E08
	M00003794D:G03	M00001485D:A05	M00003983D:H02
	M00003797A:C11	M00001487C:A11	M00003985A:C01
	M00003797A:D06	M00001487C:G09	M00003986C:G11
	M00003797A:G03	M00001530A:B02	M00003986D:H12
	M00003800B:F03	M00001530A:H05	M00004027A:A08
	M00003805A:F02	M00001530D:A11	M00004028A:B10
	M00003806B:C09	M00001539B:B10	M00004028A:G03
	M00001674A:G11	M00001567A:C04	M00004029B:A01
	M00003806D:D11	M00001567A:C11	M00004029B:A06
	M00001693D:E08	M00001567C:B08	M00004029B:G10
	M00003808D:D08	M00001567C:E07	M00004029C:F02
	M00003809A:C01	M00001570C:B02	M00004029C:F05
	M00003809A:F01	M00001570D:E05	M00004030B:A12
	M00003809B:B02	M00001570D:E07	M00004030B:D08
	M00003809B:E10	M00001573B:A06	M00004030C:A08
	M00003813A:B02	M00001573B:H12	M00004030C:C02
	M00003813A:D08	M00001575A:D05	M00004034C:F05
	M00003813B:E09	M00001575B:C01	M00004035B:F05
	M00003814B:C12	M00001576C:H02	M00004036A:A11
	M00003814B:F12	M00001577A:A03	M00004037C:D04
	M00003815C:C06	M00001578B:A06	M00004038A:E05
	M00003815C:D12	M00001579D:F02	M00004038B:D01
	M00003817B:C04	M00001582C:C04	M00004039C:E02
	M00003806B:G05	M00001582C:G02	M00004039D:B10
	M00001679A:D10	M00001584A:A07	M00004040A:A07
	M00001675C:C03	M00001584D:B06	M00004040A:B04
	M00001675C:D12	M00001584D:C11	M00004040A:C08

cDNA Ref No.; ATCC Accession No.	cDNA Library Ref ES31 ATCC No. 207078	cDNA Ref No. ES32 ATCC No. 207079	cDNA Library Ref ES33 ATCC No. 207080
	M00001675D:E10	M00001585D:B12	M00004040B:C05
	M00001676B:B09	M00001586C:H07	M00004040B:F07
	M00001676B:E01	M00001589D:A01	M00004069A:E12
	M00001676C:A04	M00001590D:B04	M00004069C:C08
	M00001676C:E07	M00001592B:B02	M00004077A:G12
	M00001676D:A02	M00001592D:H02	M00004085B:G01
	M00001676D:B02	M00001594C:E05	M00004087A:B05
	M00001677A:G11	M00001594C:H03	M00004090D:F12
	M00001677B:A12	M00001594D:G11	M00004092C:D08
	M00001677B:B04	M00001595A:C07	M00004097C:E03
	M00001677D:B01	M00001595A:D12	M00004097C:H08
	M00001678D:B11	M00001595A:E07	M00004097D:B05
	M00001681C:A08	M00001595B:G07	
	M00003819B:G01	M00001595B:G10	
	M00001693C:E09	M00001595B:H11	
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We Claim:

1. A library of polynucleotides, the library comprising the sequence information of at least one of SEQ ID NOS:1-3544, 3546-4510, 4512-4725, 4727-4748, and 4750-5252.

2. The library of claim 1, wherein the library is provided on a nucleic acid array.

3. The library of claim 1, wherein the library is provided in a computer-readable format.

4. The library of claim 1, wherein the library comprises a differentially expressed polynucleotide comprising a sequence selected from the group consisting of SEQ ID NOS:65, 174, 203, 252, 253, 387, 419, 420, 491, 552, 560, 581, 590, 648, 693, 726, 746, 990, 1095, 1124, 1205, 1354, 1387, 1780, 1899, 1915, 1979, 2007, 2024, 2245, and 2325.

5. The library of claim 1, wherein the library comprises a polynucleotide differentially expressed in a human breast cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS:15, 36, 44, 45, 89, 146, 154, 159, 165, 174, 172, 183, 203, 261, 364, 366, 387, 419, 420, 496, 503, 510, 512, 529, 552, 560, 564, 570, 590, 606, 644, 646, 693, 707, 711, 726, 746, 754, 756, 875, 902, 921, 942, 990, 1095, 1104, 1122, 1131, 1142, 1170, 1184, 1205, 1286, 1289, 1354, 1387, 1435, 1535, 1751, 1764, 1777, 1795, 1860, 1869, 1882, 1890, 1915, 1933, 1934, 1979, 1980, 2007, 2023, 2040, 2059, 2223, 2245, 2300, 2325, 2409, 2462, 2486, 2488, and 2492.

6. The library of claim 1, wherein the library comprises a polynucleotide differentially expressed in a human colon cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS:33, 65, 228, 250, 252, 253, 280, 282, 355, 370, 387, 443, 460, 491, 545, 560, 581, 603, 680, 693, 703, 704, 716, 726, 746, 752, 753, 1095, 1104, 1205, 1241, 1264, 1354, 1387, 1401, 1442, 1514, 1734, 1742, 1780, 1851, 1899, 1915, 1954, 2024, 2066, 2262, and 2325.

7. The library of claim 1, wherein the library comprises a polynucleotide differentially expressed in a human lung cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS: 10, 54, 65, 171, 174, 203, 252, 253, 254, 285, 419, 420, 466, , 491, 525, 526, 552, 571, 574, 590, 693, 700, 726, 742, 746, 861, 990, 922, 1088, 1288, 1355, 1417, 1422, 1444, 1454, 1570, 1597, 1979, 2007, 2024, 2034, 2038, 2126, and 2245.

8. The library of claim 1, wherein the library comprises a polynucleotide differentially expressed in a human cancer cell, where the polynucleotide comprises a sequence selected from the group consisting of SEQ ID NOS:648 and1899.

9. An isolated polynucleotide comprising a nucleotide sequence having at least 90% sequence identity to an identifying sequence of SEQ ID NOS:1-3544, 3546-4510, 4512-4725, 4727-4748, and 4750-5252, or a degenerate variant or fragment thereof.

10. The polynucleotide of claim 9, wherein the polynucleotide comprises a sequence of one of SEQ ID NOS:2503, 2504, 2550, 2555, 2578, 2656, 2667, 2712, 2723, 2728, 2738, 2734, 2754, 2758, 2760, 2832, 2835, 2842, 2843, 2849, 2893, 2933, 2956, 2971, 2981, 3009, 3018, 3019, 3046, 3084, 3190, 3129, 3173, 3226, 3227, 3274, 3290, 3356, 3365, 3377, 3381, 3390, 3391, 3404, 3407, 3408, 3409, 3418, 3419, 3451, 3597, 3600, 3618, 3632, 3635, 3646, 3648, 3657, 3665, 3669, 3670, 3671, 3656, 3680, 3686, 3695, 3696, 3700, 3710, 3736, 3762, 3763, 3774, 3775, 3791, 3804, 3806, 3836, 3895, 3905, 3919, 3920, 3927, 3936, 3951, 3974, 3998, 4036, 4038, 4044, 4056, 4072, 4117, 4119, 4152, 4153, 4154, 4172, 4175, 4159, 4175, 4205, 4216, 4223, 4228, 4238, 4241, 4243, 4251, 4253, 4261, 4263,4278, 4288, 4322, 4330, 4343, 4359, 4363, 4364, 4365, 4373, 4375, 4384, 4385, 4406, 4409, 4431, 4434, 4441, 4442, 4444, 4455, 4469, 4473, 4477, 4482, 4489, 4495, 4496, 4498, 4525, 4535, 4536, 4540, 4560, 4616, 4562, 4586, 4605, 4629, 4653, 4654, 4658, 4659, 4660, 4661, 4664, 4665, 4668, 4684, 4682, 4688, 4689, 4710, 4718, 4733, 4724, 4733, 4746, 4755, 4760, 4710, 4777, 4785, 4792, 4794, 4801, 4807, 4821, 4822, 4847, 4850, 4854, 4856, 4866, 4885, 4900, 4901, 4905, 4914, 4925, 4929, 4931, 4943, 4944, 4959, 5111, 5020, 5041, 5046, 5059, 5083, 5090, 5094, 5102, 5125, 5174, 5197, 5208, 5217, 5237, 5239, 5241, 5243, 5248, and 5252.

11. A recombinant host cell containing the polynucleotide of claim 9.

12. An isolated polypeptide encoded by the polynucleotide of claim 9.

13. An antibody that specifically binds a polypeptide of claim 12.

14. A vector comprising the polynucleotide of claim 9.

15. A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as ATCC accession number xx, xx, xx, xx, xx, xx, xx, xx, or xx.

16. A method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, the method comprising the step of:

detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where the gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:10, 15, 33, 36, 44, 45, 54, 65, 89, 146, 154, 159, 165, 171, 172, 174, 183, 203, 228, 250, 252, 253, 254, 261, 280, 282, 285, 355, 364, 366, 370, 387, 419, 420, 443, 460, 466, 491, 496, 503, 510, 512, 525, 526, 529, 545, 552, 560, 564, 570, 571, 574, 581, 590, 603, 606, 644, 646, 648, 680, 693, 700, 703, 704, 707, 711, 716, 726, 742, 746, 752, 753, 754, 756, 861, 875, 902, 921, 922, 942, 990, 1088, 1095, 1104, 1122, 1131, 1142, 1170, 1184, 1205, 1286, 1288, 1289, 1354, 1355, 1387, 1417, 1435, 1444, 1454, 1535, 1570, 1597, 1734, 1742, 1751, 1764, 1777, 1780, 1795, 1860, 1869, 1882, 1890, 1899, 1915, 1933, 1934, 1954, 1979, 1980, 2007, 2023, 2024, 2034, 2040, 2059, 2126, 2223, 2245, 2262, 2300, 2325, 2409, 2486, 2462, 2488, 2492, 1241, 1264, 1401, 1422, 1442, 1514, 1851, 1915, 2007, 2024, 2038, 2066, and 2245;

wherein detection of the differentially expressed gene product is correlated with a cancerous state of the cell from which the test sample was derived.

17. The method of claim 16, wherein said detecting step is by hybridization of the test sample to a reference array, wherein the reference array comprises an identifying sequence of at least one of SEQ ID NOS: 65, 174, 203, 252, 253, 387, 419, 420, 491, 552,

560, 581, 590, 648, 693, 726, 746, 990, 1095, 1124, 1205, 1354, 1387, 1780, 1899, 1915, 1979, 2007, 2024, 2325, and 2245.

18. The method of claim 16, wherein the cell is a breast tissue derived cell, and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:36, 44, 45, 89, 146, 154, 159, 165, 172, 174, 183, 203, 261, 364, 366, 387, 419, 420, 496, 503, 510, 512, 529, 552, 560,564, 570, 590, 606, 644, 646, 693, 707, 711, 726, 746, 754, 756, 875, 902, 921, 942, 990, 1095, 1104, 1122, 1131, 1142, 1170, 1184, 1205, 1286, 1289, 1354, 1387, 1435, 1535, 1751, 1764, 1777, 1795, 1860, 1869, 1882, 1890, 1915, 1933, 1934, 1979, 1980, 2007, 2023, 2040, 2059, 2223, 2245, 2300, 2325, 2409, 2462, 2486, 2488, and 2492.

19. The method of claim 16, wherein the cell is a colon tissue derived cell, and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:33, 65, 228, 250, 252, 253, 280, 282, 355, 370, 387, 443, 460, 491, 545, 560, 581, 603, 680, 693, 703, 704, 716, 726, 746, 752, 753, 1095, 1104, 1205, 1241, 1264, 1354, 1387, 1401, 1442, 1514, 1734, 1742, 1780, 1851, 1899, 1915, 1954, 2024, 2066, 2262, and 2325.

20. The method of claim 16, wherein the cell is a lung tissue derived cell, and the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS: 10, 54, 65, 171, 174, 203, 252, 253, 254, 285, 419, 420, 466, 491, 525, 526, 552, 571, 574, 590, 693, 700, 726, 742, 746, 861, 922, 990, 1088, 1288, 1355, 1417, 1422, 1444, 1454, 1570, 1597, 1979, 2007, 2024, 2034, 2038, 2126, and 2245.

21. The method of claim 16, wherein the differentially expressed gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS:648 and 1899.

SEQUENCE LISTING

<110> Williams, Lewis T.
Escobedo, Jaime
Innis, Michael A.
Garcia, Pablo Dominiguez
Sudduth-Klinger, Julie
Reinhard, Christoph
Giese, Klause
Randazzo, Filippo
Kennedy, Giulia C.
Pot, David
Kassan, Altaf
Lamson, George
Drmanac, Radoje
Crkvenjakov, Radomir
Dickson, Mark
Drmanac, Snezana
Labat, Ivan
Leshkowitz, Dena
Kita, David
Garcia, Veronica
Jones, William Lee
Stache-Crain, Birjit

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<400> 22
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ctaatcattt ctagctggct ggcctcctca gagcatagga aacctgaggt caggaattcg 120
agaccagcct ggccaacatg gtaaaacccc atctctacta aaaatataaa aattagccag 180
gcatggtggc gcacacctgt aatcccagct aatcaagagg ctgaggcagg agaattgctt 240
aaatctggga ggcggaagtt gcagtgagcc aagatcgcgc cactgaactc cagcctaggc 300

<210> 23
<211> 300
<212> DNA
<213> Homo sapiens

<400> 23
aagttcaagc aatgattaat ctagcttccc tcctggtgga tgactgaggc ctttgcctga 60
ggacaacttt aaagagatat tgaatgaagc tatgatacct gtagcagtta ctgccatttt 120
ggacccataa actgacaatc cttaaacatt accaggaggg cagagcggaa agaacattga 180
tgtcatcact gagttgctgg attaccttac tctagaaata gccaactctg catgtttggt 240
tatttttta aaaagtcttc tttattattt acatcatttt gaatgggctc taactctagc 300

<210> 24
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 24
agtcaatcca aatgatttca gagacctgac tttgctgttt gaccactctc agcttttgg 60
tatcagactc ccttcactgg ctcccaaaaa ctccagggcc atgtttctgg aacagtggaa 120
agcagggaaa tagaaatggg gcctcaggaa ttagaaataa ggctttggca ttcaaatgtc 180
gcacctagca tgctgtgact agcgataagt gtgcaaggag tgttgaagca gtaggaagac 240
ttgtggtgag gcggggcagg ggaatnnnnn nnnnnnnnnn ncagagacca nnggcctttc 300

<210> 25
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 25
tgttcctgtg ccagaaagaa agttaaaata cttgcttaag aaagggaggg gggtgggagg 60
ggtgtaggga gagggaaggg agggnnnnnn nnnnnnggcn tacnttttcc tacatttcan 120
tntccctttt ncctatctaa gcngtnctat ctngtcaatn cacttntcnn tnnnttaacn 180
ccnttccnnn ncanctttcc cttnntcctn cctntatact nttgctntga nntgctgncc 240
anatntgttt cccttcctcc atcctnncat acccccttact t 281

<210> 26
<211> 300
<212> DNA
<213> Homo sapiens

<400> 26
cgaggcagtt agctagttgt ctgtgaaata aaatactaat gattgaactt tctaggaagt 60
acctattctg ctaatagtgt aaatatacac ttatccaggg tcagaaatac tcaagtttac 120
ccacttaaaa gatctagaaa atacatgaac ttgggcttac ttgccagtta aaattgttta 180
tctcagaatt gtaccatcac cttaattaaa gtagatatgc taggattatc ctgataacta 240
attaacatag cctttcccct tagtgttctt cacctgaatg tagtagtgga ctcttcaagt 300

<210> 27
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 27
gtgctgcaga caacacacct tcctgatgga ggtgtccggc tgatggagaa gtctgtgggc 60
ttgtaaatca tctttgatgt taaccaggcc gacgctgtgg ccacattccg aaagattaac 120
cctgtcaaac cctannnnnn nnnnnnnnnn nnnggatttg atnagcctgt nccanacctc 180
tgcagcctcn ancggtngtn ntaccatagt ggggatgacc ctctgatact ttgncctggt 240
ngancatgnt gacanntgct tctacagctt nngggac 277

<210> 28
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 28
tggcatcanc nagccgtgca gtccgctntt cactgttnna nggcctccna gtgnntcana 60
gcattggacc catctntanc aaaagtngag gccaaaaagn tnagtgactt gacaagtgnc 120
agagtaaccg tgtagacaga gcagtgtana cagaaatcaa ncntcagtcc cangngtana 180
cctgatcntg gngatcactg ccctgagtgg cttgccagca cagccagngc catcagtaat 240
ttgnangacn tancacnnnc nnnnttaagt taaaaaaccc ccattnnnna agg 293

<210> 29
<211> 300
<212> DNA
<213> Homo sapiens

<400> 29
ggctaacttg ccttgtttta ctattgatgt ttgtgtcctg tgtccttaac actttaagca 60
gcgtgttctc acctaaaggc taatagtttt aagtaagttt ctttttcttt ttttaattta 120
aaaattaaaa aatttttaat taacttttt taaattaaaa aaaattatta attattttta 180
atagacagga tcttgctatg ctgtccaggc tggtcttgaa ctcctgggct caagtgatcc 240
tcctgccttg gcctcccaaa gtgctggtat tacaggtgtg agtcactgca cctggccaag 300

<210> 30
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 30
ttaaaggatt taaggannna nanntncttn tggtttgccc nttccnacnn tnctggggga 60
aanganncnc nannaggtna ttctnnttcc ctnangccna nanggnaacn tggnttgncc 120
ttaaacnttt gnnttanatn gggtanntgn ntttttnaaa antnggtgcc ntnaangann 180
ntttgagctt tgcagtagat tatgctgcat cctcgtggca aaattctgta ttcttagtga 240
ttgttacaaa ccccttttatt gctgtctgag aaaggaaaga t 281

<210> 31
<211> 300
<212> DNA
<213> Homo sapiens

<400> 31
gtcaagggct gcatgaagtg cgagggccga agagtctgtg tggactcagt gggacatggg 60
cgtggaagag cagggaggtc tgaatgggaa gtaaagacac agatgcgggt atgcacacag 120
ttctttgaag atgctcggcc gaggagacaa gagtaatcag gtcaggggca aaaaggggta 180
ctcgcctgag gaagtaaaca ttggatgtcc acagctcaga gttagttcaa ggtcacattc 240
aaattagata ccccgatttc ccccggcctg ctgtctaaat gccaaatcaa gtcatggctt 300

<210> 32
<211> 300
<212> DNA
<213> Homo sapiens

<400> 32
gagcagaaac gcaagatatt tccctttgct ggctaaacag aagcctgggc acccagaatg 60
tgatatcctg accaatgttt ttgcaattct ctcagcgaag aatctttctg atgccacagc 120

cagtattgta atggacatag ttgatgacct tcttaacctt ccagatttcg agcctacaga 180
aacagttttg aacttgctgg taactggatg tgtataccct ggcatagcag aaaacatcgg 240
tgagtctatc acaataggag gaagattaat tctacctcat gtacctgcaa ttcttcagta 300

<210> 33
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 33
gtccagggcc cangttttaa tttnttttta aaaagcttta ggtcttgccg ggacggtggt 60
tcacncnnnn nnnnnnnnnn nnnnnnnagg cctaggcggg tggatcacaa ggtcagcagt 120
tcaagaccag cctgaccagc atggtgagac cctgtctcta ctggaaatac aaaaaaattg 180
gctgggcgag gtggcaggca cctgtggtcc cagctacctg ggaggctgag gcgggagagt 240
ctcttgaaac tggaaggcag aggttgcggt gagccgagat tgcgcc 286

<210> 34
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 34
gtaggttgaa agcctggtca gctattctgc aagacagtca aaaattgttt acagggctgg 60
acagcatatt gctattgaaa aatagctatt aggagacctt gcacaatttg tgaaacattg 120
ttaggctcat tgtactgtgt aaaatcagga aagaatttgg gaacatactg atacaacaaa 180
aagataggtt gtcaaaccct cacttcacca gaaagctaaa ttaaccagat aagtctttct 240
gaannnnnnn nnnnnnnnnt ttgntcctgc gctgtacnna naccttanan tgggtaatct 300

<210> 35
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 35
attgaggaag atctaggtaa aacctttaag ttaaccttct aagtctcaga cacgtaaacc 60
caagtgtggc aaaggaactc attgctctcg aaatgcatat atgttggttt atagactgca 120
aactcaagaa aagcccaaca ctactgttca agttccagcc tttcttcaag agctggtata 180
tcgggataat tccaaatttg aggagtggtg tattgaaatg gctgagatgc nnnnnnnnnn 240
nnnnnnnaaa ggaaaagctn ancacgaaga ggntaaggag ctgtaccaaa ggttacctgc 300

<210> 36

<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 36
gcttggtcac ccccgaggag agcaggaagc tgcggttctg gaacctggag tttgagagcc 60
agtctttcct gtatagacag gtacggagga tgacggctgt gctggtggcc gtggggctgg 120
gggctttggc acctgcccag gtgaagacga ttctggannn nnnnnnnccc ctggncaagc 180
acnacacaca tgtngcccca ncccacggct tantcctcan ntcacgcgct gtacnggaac 240
ctctncnctg cctnctgcac cctgcaggnt nnaaactacn gcacccactg ataa 294

<210> 37
<211> 300
<212> DNA
<213> Homo sapiens

<400> 37
gtgaatgctg tgcctgtggc cccacctgtg tgtgatgtcg ccagaaccca gccgactcct 60
tcagagaaag ctgcaggagt cctggagggg gcccttgggc cacatgttgt cactaacctt 120
tatctctatc caatcaaatc ctgtgctgca tttgaggtga ccaggtggcc tgtatgaaac 180
caagggctgc tatatgaccg gagctggatg gttgtgaatc acaatggtgt ttgcctgagt 240
cagaagcagg aaccccggct ctgcctgatc cagcccttca tcgacttgcg gcaaaggatc 300

<210> 38
<211> 300
<212> DNA
<213> Homo sapiens

<400> 38
tcttgttcaa cattatatcc ttagggatta gtacataggc ttgcaaatag caggtatgaa 60
taaaaaatta ttgaatgagt aaatgaattt aaaatataag ttacttaggc ggtatcttca 120
ggcatatctg tgtttatgtg gtattcaatg gcccacaaat gtctacatcc taattcctaa 180
gatctgtaaa cattaatttg catgacaaaa gagactttac agatgtgatt aaatgaaagg 240
attttgacat gcagataata tcctgtattc ttcatgtgga accaatgtat ttacaagggt 300

<210> 39
<211> 300
<212> DNA
<213> Homo sapiens

<400> 39
cttctgcccc cggcacttgc catgttccag tgggggggcag atcctcagga cttcacgggt 60
atggttgcca gctgtgttcc tggcccctgg acacacagtg tggcatcctc atgtttgcac 120
actttcccca ggctccagtg gcctggatgt caatgtttac aaaggggcaa ggacctctca 180
tggacactgg cctctagccc tctgtttttg tttgatgaat tctgttataa cctatggggt 240
caggatatga gtcctgggca ttatttatcc aggacccatc ctcttgggtg ggttttgggt 300

<210> 40
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 40
aatttcnctt tcnnagnttn cgnncggnct taangntttt tngggcnaaa gnccccntnn 60
ggngnctant ttgtgatncn gngngaaaan atttttctca ttctgaggtc cacatggcac 120
cttctgggcc agcagctgtg gccggtgtat caagggcgcc cttaaagctg gaacattcca 180
gcaagcttct tgcgcttctc tgcacccggc aggcccactt tcctggcacc ctcgacttta 240
tataaaagtt gcactgcgtt tcaaaaaccc acccctgaag aataa 285

<210> 41
<211> 300
<212> DNA
<213> Homo sapiens

<400> 41
gtttcattta agaagaatga gctagataaa tgtgctcttc tggttacccc accctgacag 60
agtgcatttt tacacggcta gcaggggttg agactgcagc ctggcctgcc agccattgga 120
ggtgtttaag gaagggcaga taatgtgact ctttgcgggg tgccatctgc ttacccatta 180
gcgagcagag ggggtttctg cgggtgaccc ccagcatatt tctaggttac ttatgggcag 240
atttgtaagt gacaaaactc cagctgatgc tgggaatggg gagagggccc ttgagggact 300

<210> 42
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 42
cgtctgtaat cccagctgct tgggaggctg aggcaggaga atcacttgaa ccctggaggt 60
ggcggttgca gtgagcacag atcatgccac tgcactccag cctgggcaac aaaacgagac 120
ttcgtctcaa aaaaaaaaan nnnnnnnnnn nnatcctttg gncgggttct cccaaattnt 180
tttgaggggn ccatggncaa cngcttnagc tttgttttgg caacccccntg cccnaagncn 240
catataggct gtncttnacc ttgtttccaa ggctgaggan canaaagtan cctntgtttt 300

<210> 43
<211> 300
<212> DNA
<213> Homo sapiens

<400> 43
ccatagcctg ttgagtgttc ccagatgtga ctcacctttc tgctgccctc ttcatgcagg 60
cctactgact cataattcac ttgtcccaaa agccacccca caagcctgag ccaacctgct 120
gcctgacgcc acagtcattg gcagaggtct gggcattatt aatctataaa aatccatgct 180
ttacacctgg acagtacaca gggacttcag agattgcacg ttggaataca ttctcccaag 240
actgaggttg ttcggtttta attcctgtag tccaatcaca caatttctta tggaaaacct 300

<210> 44
<211> 300
<212> DNA

<213> Homo sapiens

<400> 44
caaaagataa tgtgaaactg ttggtggact ctctggtgag gggtgggcag aacttgctgc 60
tactagagtt cttgggttct ccatgatgtt caccctgggg ctggcccact gtgtcctgaa 120
tgtttttgtt atttttgtt ttatttttta aacaaactgc tgtttttata tacctggaat 180
ctgttgttgg cttcagagcc agtggttaaa gagcagggtc ccaaggattg ggagatctag 240
tgtctgctct cctgccctgc aactcaattg ggccttttc ggtgacctca tccaaggcca 300

<210> 45
<211> 300
<212> DNA
<213> Homo sapiens

<400> 45
cttgatggca gtagaaagac ctcattttca taacataact actcttgata ctttctttaa 60
aaacactttt tattaaagat tctatcatga ggtatttggc tgggagctgg gaggctaaag 120
cgctcatgtc ctggctcttc agtgaattta actgtgtgac cttgggcaag tcacttaacc 180
tctctgtgct tcagtctccc tgtcttgtaa aatgggagta atacctacct cacagggttg 240
ttgtggggat taattagaga taatgtctgt aaagcattta aggttcttga agaaggcact 300

<210> 46
<211> 300
<212> DNA
<213> Homo sapiens

<400> 46
ggccggttat tctctcttta cagatagcta tagacatcat tttaggaagt gttgcagtct 60
ggcatttgtg ctattgttca ttctctgtga aggctgttca tagttgctat agcctgtgtt 120
tagttttgtg atttcatcaa tcccatcttt ctgtgtgagt aatgcattct aaacatccta 180
ccccacttta gaaacggacg tggggaacgc ttggtcattt aagccaacaa taaatttagg 240
tgaatgtccc taagtgttta ctgtttttat ccagtcaagg atttgctttt ccttgaacat 300

<210> 47
<211> 300
<212> DNA
<213> Homo sapiens

<400> 47
gttatattaa attattcttt gtttttcttt ttcttttaat aaagcctgca agttactaaa 60
ttgtagtttc ataaattctg tagtaaagta tcatcttggc agtgtgccaa aggtgaaaat 120
gatgctttct ctaacagaga aattcttagt gactccagtc gtagaaaaac gtctttacaa 180
cctgaataag attgaagaat tgtgaacata ccatggccta ttggatgaat catttgccgt 240
aggctaaatc agactgtagg gtttgcgatg gatttatgga gtatgtgggt atagaaatca 300

<210> 48
<211> 300
<212> DNA
<213> Homo sapiens

<400> 48
gatgtcacta gacaactggc agtttaatgc tcacacccct gaactagaag aggttccaca 60
ggatccctgg ccaatgccag ggatctttag gtcagcagtc atgtcaagat gctctgattc 120
tccacaaacc cagcttcttt cccaaactgc agggaggtcg gtctgcagtg acttacctag 180
tattttgttg tatccctggc tcacagtgtc tccccggtct aggatcttcg aatcgaaatc 240
ccatgaagca catattgcag tgctctctga ctctcacccc tgaaatagag ctggtgggat 300

<210> 49
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 49
ctgtttcnnt cctaatggat agttagctga tttctgttgt ttttctctga naaccaatgt 60
tgcaatgtgt ctttagtctg gatagctatt gttaaactgc ctacaaagtg agcagatcta 120
ttaatatcag tttacacttg ggcctttggg gtttgagagg acctttttct ctgcaaccat 180
ctgtgggctg atttttgcat tttacttgtg ataacaaggg agggtaactg ccccctttcc 240
atcatccccc aaaagggaaa aaatgagcac tagcataaaa gttctttgga gaaatat 297

<210> 50
<211> 300
<212> DNA
<213> Homo sapiens

<400> 50
ttccttggcc actctaagtc agatagtcca gagccaggcc ctttgggatg tgacaccgag 60
ataaatcaga gaaaagctgt gaagcttggg gaacagaggg acttttggtg aagtaggtgg 120
tctgcagttt ctatcttctt gggaaaagca agctggaaaa gtgaacagtg gttggtaggc 180
catagtgctc ccagctgggt gacataatga ccacacagca cagtgatgtt attagcaact 240
gtgtggtgga gtagttgtgg gctggacaaa tcaatcgtgg gaaattgtta ggagttttat 300

<210> 51
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 51
agttctntta acaggatnnn atcgattcna attnggcntn angnntggcc nccctggggt 60
ncncaccaga agntcggana aaggcccaag gngnangcca cgcccagcag tggtnattgc 120
cccccactcc ttttttgagt ctatnagcat tgnttggttt tagctgtcat cagaagctgt 180
gagggaccca cagattttgg aaacgacctg gacacactat tgggaaggag atgtggacgg 240
cctgtctcct cctgcagggc ccaccctaag aatgtatttt taaacaca 288

<210> 52
<211> 300
<212> DNA
<213> Homo sapiens

<400> 52
agaaaggata atggagtttc tgtacaagat ttaccagaaa gagagtggtg tgtagacatg 60
cctggagcag acaccttgga gccgctgaca gaaggtgaag cagtccaaga aaatgtggaa 120
acttttccgc tgctctacac agtccacaaa cctgtccatt ttatttcgtt gaagctttgt 180
ctgagagata accaaataga cagtcaaagt aagttatctc agccacatat ggggagtgga 240

tgctgctgaa ttgtgattaa ttgggggagc catataggta catttggcat gatctgggcc 300

<210> 53
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 53
gctactctta cgcactcacg ttcattaact gcgttctgat ggcagaaggt agacagcaac 60
tggacaaggg tgaatttacg gagaagtacg tggtcccgcg gacaaggctg gcatccaagt 120
tcatcacact ctaccgggcg atacgggagc atggcttcta cgtcactgac tgtccccagc 180
agcaggcaca acccccctgag ggcggcggtt tgtgctgaga gctatgtaag cgcagcctnn 240
nnnnnnnnnn nnnnnnnngt tgntaccttt natcataact atggatatct aaatgcat 298

<210> 54
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 54
agtccctgag aggtggtggg aatggctgct tcattcctcg aggatgcccg ggccccacct 60
gggcttgtct ttctgtttag agggaagtgt aacntatctg ccatgaggaa cataaattca 120
tgtaangcca ttttctctta tncannncnt ntctttctan gtacantcnt tntctaggat 180
ttgngaagct ncttgcnctt gnaacaggnc tcangtnngn gnancnnttt ngnnnttncc 240
ncnnntcntg ntgntttttt cntntnnt 268

<210> 55
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 55
aatgtgaaat ccacattgtt tccacaggca ccatcagtaa tgtcgaacaa atggagaaag 60
ttgcaggtgg ggctaggaaa gctgtattcc tgtggattac tctagctggt catttgcccc 120
gattgtgaac tgcttgaaag aaaaacgaaa cttctaagat gtttgtcctt tcatgtcctt 180
tctgttggga tttcttattt ggngcncttn nctgnntanc ntnnnnctnn ttnattnggg 240
nntcctntna nctnttgtnn ncatcgnnta agttagtt 278

<210> 56
<211> 254
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(254)
<223> n = A,T,C or G

<400> 56
ggaaattggc ctataccagg agagcggatc ccagacgtgg ctgcattgtc catgggcttc 60
tctgtgaaag aagacctttc ttggccagga ctcgcagtgg gtaacctgtt tcatcgtcct 120
cgggctaccg tcatggtgat ggtgaaggga gnnnnnnnnn nnnntntacn cncaggcntt 180
nnntnttnat nnccnnngtc nccttncnan tnnatnttna ntncnnnntt ngnagntatc 240
tngtcgtnnt cctt 254

<210> 57
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 57
gagacatcat gtcaacagaa atggagatgt gcactgggga aactgccggc cgggccgctg 60
gcccgtggac gcctgggagg tggccaaggc cttcatgccc cgaggactag cagacaaaca 120
aggacctgag gaatgtgatg cagttgctct tttaagtctc atcaacttct nnnnnnnctn 180
tgnngcnnat gtntacantg ccaccaacgt gnttntgtgn actcgcncan tcatggacta 240
tctctatgat natgannntt ctaggancnt ngnggataat actacnttnn antccttctg 300

<210> 58
<211> 300
<212> DNA
<213> Homo sapiens

<400> 58
acaaggtgct ggcagtgaag tgggggcaga ctgagcctgt gtagtgaagt gtcttgagga 60
acgtcagctg tatcttttag gaaaccaaaa ctgcatagac attgaaccca ggcagaaggt 120
catgaagtca gagctaagaa atgctagtgg ggatagggggg tgagatagag ttgggaaatg 180
tttcagagct acaggtgaca gttgttggtg tccagttgga tatgtaccat gaagggaaga 240
agcagtcaga gtgggcacca agctttctag cctggaggac tgaatggttc tgtgcacatt 300

<210> 59
<211> 300
<212> DNA
<213> Homo sapiens

<400> 59
ctctcaaata gaaatgggag ataagaaata tatctgtgca atattaaatt gaaaaaaaaa 60
acccataaaa agtgtcaaag gcaaataatt tgctctagat cacaaaacta gttagcacaa 120
ggctaggatt ataaccaggg tctaggaaaa aatcctgaag gtgatttaac tgagtgttag 180
gccctgtcaa gccacctgct aaggctcatg gtctttcaga ctagcttcaa cattccaaat 240
caggcaatag ctacaacgga aagataattg gacggggaat cctgagatca gagtcctagt 300

<210> 60

<211> 300
<212> DNA
<213> Homo sapiens

<400> 60
aacgtgctgt acaccagcct gcccgtgctc ctcatggggc tgctcgacca ggtaggagcc 60
tcgcacaagc agggacactt ctggacagat gagaatgcgt tagagaagtc ccaagcaaac 120
gtttcaatgc attcttctgg tgtttacttc tttctgatca aaccctatta taattctgtt 180
gtcaggcatc aagggtcatg gctgtgcttc ttgttttgta ataaggaaag aggatttctc 240
tgtagtccca gctactcggg aggctgatgc aggagtatga cttgagccca ggtgttcaag 300

<210> 61
<211> 300
<212> DNA
<213> Homo sapiens

<400> 61
ctgttcctaa ccctttcaac tggggggtct caagtgggtg aggactccat ggccacggca 60
gcagaactgt ctcttctgaa aaccagactc cggggcccct gggtcagcac ctctaggtca 120
ttccacagac ttacacagtt taaagaaaga gccagcgaac atggggtgat cctggggtgc 180
cactgggatc ccaagccagg cccggaggtc tgcctgtttc gtccccagaa acttgagctg 240
gcatcctccg ttggtttgca ctgggcacgg ggactggaga gccaccaggc cactgagcgc 300

<210> 62
<211> 300
<212> DNA
<213> Homo sapiens

<400> 62
cctgcttcca ggtctccctg tccccccttgc ctgccttctt ccctgctctg tcccctaagc 60
tccctccagg cagggaaaag aggccaggtg ctaaaaatga gcctttctca agcacgtgag 120
cagcggaagg cagacaggcg ccagagccca gcactccctt ttccagcagc tgtggtgggg 180
gagggttccc ctccagtttg tcaagagttg aaggaggctc tgtggccagg tgacctggct 240
gccttccact ccttgtacct cagtctaaac atggagtggc cgctgacaag gcgctccagc 300

<210> 63
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 63
ccccactcgg ggtatgtgaa tgcccagctg gagaaggaag tgcccatctt cacaaagcag 60
cgcattgact tcacccctc cgagcgcatt accagtcttg tcgtctccag caatcagctg 120
tgcatgagcc tgggcaagga tacactgctc cgcattgact tgggcaaggc aaatgagccc 180
aaccacgtgg agctgggacg taaggatgac gcaaaagttc acaagatgtt ccttgaccat 240
actggctctc acctgctgat tgcctgagca gnacggangt ctttacgtga acccacttga 300

<210> 64
<211> 300
<212> DNA
<213> Homo sapiens

<400> 64
gagtttttg tgatattgag gcattcatac agagctgcag ttagacgggg ttacgggggc 60
taaaagcaga aaaaaaattc catttcatcg ggatggaact gaaggatttt attctataaa 120
gcggccctgg ttgaatctgg caattctttt tgccaagatc cctagcagaa gatttagcca 180
tgtccttccc ctcacttgtg tgagtggccc cttctgaatc tctccagcag ccagaggcac 240
cgtgagaagc agaaagagct ggtaaataaa gccttgggca agcgacttct tagatcagaa 300

<210> 65
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 65
cacctgacct tggcctgcac ccccggcagc tcccccacac ttttgcgctg gttccacgac 60
tgcctgggct tttgccactt gccgctgagc ccaggtgaag atcccgagct gggccttgaa 120
atgacagcag ggtttgggct tgggggaatg agaggttaca gcnnnnnnnn nggccatgan 180
gggcananat tgnatcccac atatttgann ngngcngaga ncccttttng gggggngtaa 240
angtacaacn angaagcnct nttaggacta aggtttaana aagntgcttt ttacccatt 299

<210> 66
<211> 300
<212> DNA
<213> Homo sapiens

<400> 66
atttgtacca actgtaccat ctgcttgcca ctgctccaaa cttttaccca cttgcttttg 60
gtaaagaggt cacctgcgta tttaaaatat ccttttgtaa tgtattggga aggtgcgaga 120
acatatgaaa atggttgtca atggagatgg aaggggcttt attctcactt aagagagccc 180
tgggaggaat aaggttttat ctggatcagg tatccaattg cattggataa acgtggcctg 240
aggcaggata aaatttaaaa acacaataat aagcctcctg gtgacatctc tgttcctttt 300

<210> 67
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 67
tgtatcgggt cctgttccag ccggcatcgc cgggtggctt ccaggcctca gagctgtgtg 60
gcagggcccc ctgctggggc tggacatcac tgcagtccag tgcaaagccg nnnnnnnnac 120
ccaggtgtnc cccccaacta aacnaaactg gnggcttgga agccccnncn natgggaang 180
tncaaaaaaa ggtcttggnt ttctcttcta atgcctttct taactcctga antcgtttgc 240
tcctaaatct tggtaattct ttttctctgg attttggttt cttttggctt tcccttg 297

<210> 68
<211> 300
<212> DNA

<213> Homo sapiens

<400> 68
ccccactcgg ggtatgtgaa tgcccagctg gagaaggaag tgcccatctt cacaaagcag 60
cgcattgact tcacccccttc cgagcgcatt accagtcttg tcgtctccag caatcagctg 120
tgcatgagcc tgggcaagga tacactgctc cgcattgact tgggcaaggc aaatgagccc 180
aaccacgtgg agctgggacg taaggatgac gcaaaagttc acaagatgtt ccttgaccat 240
actggctctc acctgctgat tgccctgagc agcacggagg tcctctacgt gaacccactt 300

<210> 69
<211> 300
<212> DNA
<213> Homo sapiens

<400> 69
ccccactcgg ggtatgtgaa tgcccagctg gagaaggaag tgcccatctt cacaaagcag 60
cgcattgact tcacccccttc cgagcgcatt accagtcttg tcgtctccag caatcagctg 120
tgcatgagcc tgggcaagga tacactgctc cgcattgact tgggcaaggc aaatgagccc 180
aaccacgtgg agctgggacg taaggatgac gcacaagttc acaagatgtt ccttgaccat 240
actggctctc acctgctgat tgccctgagc agcacggagg tcctctacgt gaacccactt 300

<210> 70
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 70
gtttgtttcc ccgagatgtg aacttgctga aggaaaacag tgtaaagagg aaggccatac 60
agagaactgt cagctcttca ggatgtgaag gcaagaggaa tgaagacaag gaagcagtga 120
gcatgttggt taactgccct gcctactaca gtgtgtctgc tcccaaggct gagctactga 180
acaaaatcaa agagatgcca nnnnnnnnnn nntgaggaag aggaacaggc anatgtcaat 240
gaaaagaagg ctgatctcat tggaagtctc acccacaagc tggagaccct ccaggaggcg 300

<210> 71
<211> 300
<212> DNA
<213> Homo sapiens

<400> 71
tcaggccgct gggtgacggt gtgctggcca gatagttcct ggggctgcag gtggcttctt 60
tcgccccatc cctcccatcc cctttcattc ttcctgtcaa cacatctcag accctggaca 120
ccgaatgagc cgtcggtacc cacaccccag ggcaattcag tggaggggta ggtggctcgt 180
tcccccacgt tgccccagga agaggaccct gtccccggca tcctgaccca cctcccttag 240
agaccgagag cctctaagga taaacccatt cacccgtgtt tcagaggctt ttttttcctc 300

<210> 72
<211> 300
<212> DNA
<213> Homo sapiens

<400> 72

gttcagggtt ggtgggtctg tggaccttga gctagttttt aatcaacatg gaaactccag 60
tgatctattt aaaaacttgc attgggtcat gccaggttta ttggaggtta taccctccaa 120
tgtatttcca actcagggtt aaagccaagg tccttatggt ggaagatggg gcatataaac 180
tggcattctg gcgctcacac actccaatat ctactactct cccctcttgc tcgctcagct 240
gtggcttgct tattcagctt tttgctcttc ctggaataca tcaaacatat gtaggcccag 300

<210> 73
<211> 300
<212> DNA
<213> Homo sapiens

<400> 73
ctttgaagag aggaggggga ctttagagag ggatgaaaat gagccctggg agggaggaag 60
ggacgaggag gggtggctgc atgttaccgt cccctacctc tccccacgtg gagggtggag 120
cagttatgag ggaggaagtc aactgctgtt cagcctcaga ataaaggtgc cgttcactgg 180
ctcagttacc tcctgtgtac cggcatcttg tgttgggaat gttccccccc ccctagggac 240
caaggaccac ccctacaaaa agagtaatgg ttgggtgata ctccctcaag ccaaagagga 300

<210> 74
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 74
gggattaaca atgctgaagg actcttagta gtagtgactg tcatctgtgc ccctctaact 60
ttcctgagcc tcacacacaa cctgtgggca ggatggagta gatcatgttg ctgactgctg 120
ccgtaggcaa gtaaatggag ccagaaagtc ccactgttga cagggtgcca cagctgacca 180
gggactgtca ttctctccac ccacaggctg tggagggtga ccacagcatg tgcccacctc 240
caccaatccg caacgagcag ccggnactgg tgctgnggca gaggntgccg tcattgccca 300

<210> 75
<211> 300
<212> DNA
<213> Homo sapiens

<400> 75
tgggggctct gaagtttcac caggtggacg ctggggagcg ggctcccgag cacttgtcta 60
cctcccgcca gtcctgacaa cttttctggc caacctaccc agcttcgctt ggctggcgag 120
cgcatctgct gctggggttc gcggtgcaga tggagacgca gtggtggcca gagggtgatg 180
gagaagacgg gaaaagcgac agccacgctc ctggctgaag ccgcaggacg caaataactt 240
actttgtacc tgacagtttc tcacgttgtt gtggaggccc tgtttcctgg aaataaactc 300

<210> 76
<211> 300
<212> DNA
<213> Homo sapiens

<400> 76
gcagggcagg gctaaagttg gaaatggaaa tgaaggagca ggtagccatg cagccttgtg 60
ctttccagca acagggtgga cacttggtcc caagaggacg cagctgaaag accctctggc 120
agggagaacg tgtgaggact ctgtggtgga ttctgagttg tgcctctctg gcttaatctc 180

atctgattct agcagtaact ccaagaggta agcacatttg tgagtcctgt tttccaatgg 240
aaaagctaca tgaggcccac caggtcccag aactcaacaa tggtggggct ggggttcaaa 300

<210> 77
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 77
aaaggaccta agtgtgaaat accccgaaga cgtccccatc acccttccaa acctgttgag 60
gttcattttg catcactcag accctgcttc cagcccccag aatgtggcta actctcctac 120
caaggagtgt cttcagagcg aggcagtctt acagcggggg cacatctccc acttggagag 180
agagatccag aaactgagag cagaaataag cagcctccag cgagcacaag tgcaggtgga 240
gtcccagntc tccagtgccc gcntanntgn ntacnttgnt ngtngtngnt gatttt 296

<210> 78
<211> 300
<212> DNA
<213> Homo sapiens

<400> 78
tgaaaaaaat cacagctcct gcagcaagtc tatgcctggg taacaaccaa cccacaaaat 60
ccaagaggag gtccccctct cccgcctctg tgaggcttga ggagcagtat gtatctgggc 120
cagcctggtc ctcagagtgt ggaattaaca cctttcctct agcaactgtt tgtgctgctg 180
agaacagcac agactctctg gcagcctggt tctctccaga gggaagcctg tgaagcagaa 240
gaaacatatg gcatctgcac tcagggcgcc cagttccatc cggccttgct ataaaatgac 300

<210> 79
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 79
caaaaagctg ctgctgggca gccccagctc gctgagcccc ttctctaagc gcatcaagct 60
cgagaaggag ttcgacctgc ccccggccgc gatgcccaac acggagaacg tgtactcgca 120
gtggctcgcc ggctacgcgg cctccaggca gctcaaagan cccttcctta gcttcggaga 180
ctccagacaa tcgccttttg cctcctcgtc ggagcacgcc ccatattagt ggtccgggcc 240
cgggcaggcc cagctcaaaa gagggcagac gcagcgacac ttgttcttac acacccccat 300

<210> 80
<211> 300
<212> DNA
<213> Homo sapiens

<400> 80
ctcccagcct cctcctccaa cgccctttttg atccaagatt gagtaagaga cattggcaga 60

tgctgagaag gacaacccaa ttgttttaac ttgcagaccg aggggagat gggttccagt 120
ctgcacatga ctcgtgcaca gtcccccac cccaccctga cttagaaaat tccaaaccga 180
ctacaagacc agaaacaaac cacatgccag tcgcccccct gtctgtacac acatgtggag 240
ttcagagcca cccttggaga gaggctgctc aggctcagct ccctgtgctg ggctttctag 300

<210> 81
<211> 300
<212> DNA
<213> Homo sapiens

<400> 81
acatagcccc cacccctgag ggatgagaca gctccctgca ggcaggctgt gcccagtcat 60
ctcaagccta cagctgggct gctggctgca gggtctggag ggcggtgggg agggtggcag 120
acagagtagc aagacccccа cttccctggc cttcttcaca gacctgcgtc atgcgggcct 180
gggaccgcag caagcccctg ctcttctgcc cggccatgaa caccgccatg tgggagcacc 240
cgatcacagc gcagcaggta gaccagctca aggcctttgg ctatgtcgag atcccctgtg 300

<210> 82
<211> 300
<212> DNA
<213> Homo sapiens

<400> 82
ggaagaggat gactgggtat gctgtgccac ccttgagggc catgaatcca ctgtgtggag 60
cttgggcttt gacccgagtg gccagcgcct ggcgtcttgt agtgatgacc gtactgtgcg 120
tatctggcgt cagtatctac caggcaatga acaaggggtg gcatgcagcg gctctgaccc 180
cagttggaaa tgtatctgta ctttgtccgg cttccactca aggaccattt atgacattgc 240
ttggtgtcag ctgacagggg ctctggccac agcttgtggg gatgacgcga tccgcgtgtt 300

<210> 83
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 83
cagagctgta tcttcagtgg tgtgatgaag ctacagtagg ggagatcact catgctaggt 60
atggatctcc ttacccttgg cctctgaatc atattttggc ctatcaaaaa cagtggnnnn 120
nnnnnnnnnn nngtaaaaaa attttnggng gggggagaaa aaatcnggac ccggtgttan 180
aggatgtaga ccagtgctgt caagctctct ctcaaagact gggaacacaa ccgtatttct 240
tcaataagca gcctactgaa cttgacgcac tggtatttgg ccatctatac accattctta 300

<210> 84
<211> 300
<212> DNA
<213> Homo sapiens

<400> 84
gtcctaccca aacctgtggc cgccactttt gaattctcag attgccctga attttgccac 60
ttttaaataa tgtgctgaat aagctcagca actaaaaacc attacccaag aacgtttctt 120
gtgagtgagc tgatttattc tgattcatta tattcctttt ggtagatttt ataccccttg 180
gggaaataat acaacaaaaa catctcttaa aaatgctggg atggggccat atctactagc 240

agaggccaga tggtcagata tgatttctgc aaacccatct tgaccttgag tatgtgaagg 300

<210> 85
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 85
tggtgcccat attgatgtgg atanacagaa agataagaat ggcgagagaa tgatcacaat 60
aaggggtggc ccagaatcac caagatatgc agttcaacta atcaatgcac tcattcaaga 120
tcctgctaag gaactggaag acttgattcc taaaaatcat atcagaacac ctgccagcac 180
caaatcaatt catgctaact tctcatctgg agtaggtacc ccagcagctt ccagtaaaaa 240
tgcatttcct ttgggtgctc caactcttgt aacttcacag gcaacaacgt tatttacgtc 300

<210> 86
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 86
gaattccatt accanatgct actngctctt tgttgcttta tcncnangcc atcgattcga 60
atnnaggacg agncganngg tatcgncann gatngntntn ntncgctcnt gacccatang 120
cttngnatng ggatnnagng acagtntcnt gnnaaacatc tatnacnntn atganggcta 180
tcnntttaat gatnttgaga atnatgacng gcttgatgac tanaacaatg cngaagatna 240
ncgccactga tggtggnaca tacttccctc ttttactact cgcctnacaa tcacaatctg 300

<210> 87
<211> 300
<212> DNA
<213> Homo sapiens

<400> 87
gtgcgctgtc caggaatgac gtgctgaagc aggaggtgcc agagggcttt ccctttgccc 60
atgtcctttg ggcaggatgt ggatgcagct gtcggggcag ctctggtcat gctccggaga 120
cacctcaacc agaaggaatc ttagacagca aactctttcg ccaaacgact gctgtgaatt 180
ttacctgatt aacattcctg acaccatctg tgggtcatcc tttccctgga ccgttcagtg 240
gacagctttc aagcagtgct tgttgtgagg tcccatcttg gccaagaact taccttcaga 300

<210> 88
<211> 300
<212> DNA
<213> Homo sapiens

<400> 88
ccaaggagtt ttccacccgt ctctcatggt cacagcgcta gtcattcatt tttgagaagt 60
tgcttctttt acatcagaaa accagtcaat catatggaga cttcttttgt gatgaaaaag 120

ggctttagaa gttaaataca tgcatgcaca tgaaaacatg cacaaccaca gcctcaatct 180
tgtatttagt ttggggaaag agaagagaat ttcctgtgga ttatttttc ctcaagtgca 240
cctctctggt taacccaaac tctgcaagaa agcactgtga ctaaaacata cataacgcct 300

<210> 89
<211> 300
<212> DNA
<213> Homo sapiens

<400> 89
agaaatcgga acaaaagtag aagttgtgga aaggaaagaa catttgcata ctgacatttt 60
aaaacgtggc tctgaaatgg acaacaactg ctcaccaacc aggaaagact tcactgaaga 120
taccatccca cgaacacaga tagaaagaag gaaaacaagc ctgtattttt ccagcaaata 180
taacaaagaa gctcttagcc ccccacgacg taaagccttt aagaaatgga cacctcctcg 240
gtcacctttt aatctcgttc aagaaacact ttttcatgat ccatggaagc ttctcatcgc 300

<210> 90
<211> 300
<212> DNA
<213> Homo sapiens

<400> 90
ttgattgtca taacaattag tggatgtgtc cagttctctg tatctttgac ttgatgcttt 60
atacatcatt tcatttgttg cttctaaggg aataagccat agaggcttct ccaggtttaa 120
aagaacagta aagtacctgg aaaaccaaca tttttgaatg tatggacact ggacatgaga 180
tatgtacaat gaaatcttaa aagaatctaa gaatttgccc tctttgcccc actccaccca 240
gtaatttgac attactagtg ccatgtatag gacccaactg agtattagaa tcagttttga 300

<210> 91
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 91
ataggaaagg gaagcccatt tcccaggtca aagcctttgc ttactcgttt atgtttattt 60
tatttttgag acagagtcta gctttgttgc ccaggctgga gttgcaggtg caatctcggc 120
tcattgcaac ctccgccttt tggattcgtg cagttctcct gcctcagcct ccaagtggtg 180
gggatcgcag gcacacgcca ccatgcctgg ctaatttttg nnnnnttann ggctgncncn 240
gngaancctn nnntntnctn nnnntnc 267

<210> 92
<211> 300
<212> DNA
<213> Homo sapiens

<400> 92
aaaaattgtg atgtaagtgg tacagtgggg agaatttagg gctctcagaa tgcagaaaac 60
tagccacctc cagttctgtg cctgaccacc atctgacttt ggataaatcc cttctgctct 120
cccacctagc tttatcattt gtaaaatgag tctctaggta cagcccttc tgggttgaga 180
cagagtttct gaggagtaaa agccatgtca ttgtggaaac aggcagctat tctcacagct 240
ggcatgagcc cactactccc ctataatcag tgctgataaa ctgctctcat ttgttggact 300

<210> 93
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 93
agtgtatcca gatctaagta atctcagtga actatacatt gcctaaaaag tggttttgta 60
atgatttgta gtcacatttc tattgggata tgtnnnnnnn aaggcgaaat gcttaaagtt 120
ccttttattt tttaaaagca gntagataga cacagacttg ccacctnata catctgctcc 180
ttggcaacat cnnggggaac nnactagccn acatgcctat ggctaaaaac tttnctttgc 240
nnactancgc nctgnttggn gcttcngntt ntannnt 277

<210> 94
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 94
attcggcacg ancccaatcc ctgggcgccc ctggtatcca aagggcccag ggaccctgtt 60
gcgctgccct ggcctcggca ttcgaggctc ccctagggcc gtgcctgtgc gtgtgcgtgt 120
gcgtgtgtgt gtgtgtgtac tgcatgccca cccgggtagc aagctggtgg acagatctgc 180
tctgtggagg ggcgggcacc agntccactt atgtgcctgt gctccgaggg ccaatgggct 240
gcagggcctg cttggaggaa ggatttgtgt gtaggaggcc tctccgaggg caattctgtt 300

<210> 95
<211> 300
<212> DNA
<213> Homo sapiens

<400> 95
aaaacctgct gtcaaggctt gaagagccgg cacactcaat ggcaaacaca gcaccgagtc 60
tgctctgaat cctggaggat ctggccctcc tctcaacccc cactcacagt caccgtctta 120
caactcaggg ccacctggga tcagtcatca gtcagggtgc gtaagccttg aataccaggt 180
agcctcagga gtgaaaagat aaatgtccta gatcattacc ttattcagtg tccccacctt 240
gcagcgcatt ccaaccacct gggagcattt aaaactccag atgcccacac cacaccctgg 300

<210> 96
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 96
gtaacctgac acccagggag ggagggaggg aggggctgnn nnnnnnnnnc ctgnanngng 60
ggnctcacct gttctnnntt nttnttnttt tnnntntang ntcacnntng ttancatnnt 120
ttntancttg nntttatttn tnttttnttt ntnanctttn tttntnttgt tntnnttctt 180
ttttttncntt tatttttgnn ttctnccntn ntntttntgg tttttanttn ntntttnttt 240
ttttnttttn tntttnnntt ngnttctntt ntntgtcttc ttt 283

<210> 97
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 97
gtttcacatt tgctgccatg agcaaagagg aggtcgacag gtacaatttt gtgatgctgg 60
ccctgtcctc ctcattcctg gtgttatcct atctcttgac ccgttggtgt ggcagcgtgg 120
gcttcatctt ggccaactgc tttaacatgg gcattcggat cacgcagagc ctttgcttca 180
tccaccgcta ctaccgaagg agcccccaca ggcccctggc tggcctgcac ctatcgnnnn 240
nnnngnncgg gacatttgcc ctcagtggtg tggttnc 277

<210> 98
<211> 300
<212> DNA
<213> Homo sapiens

<400> 98
aagactttgg aaacacacat taaaatattt catgctccga acgccagcgc accaagtagc 60
agcctcagca ctttcaaaga taaaaacaaa aatgatggcc ttaaacctaa gcaggctgac 120
agtgtagagc aagctgttta ttactgtaag aagtgcactt accgagatcc tctttatgaa 180
atagttagga agcacattta cagggaacat tttcagcatg tggcagcacc ttacatagca 240
aaggcaggag aaaaatcact caatggggag tccccttagg ctcgaatgcc cgagaagaga 300

<210> 99
<211> 300
<212> DNA
<213> Homo sapiens

<400> 99
gctagactca agctgtctgg agagtgtgaa acaaaagtgt gtgaagagtt gtaactgtgt 60
gactgagctt gatggccaag ttgaaaatct tcatttggat ctgtgctgcc ttgctggtaa 120
ccaggaagac cttagtaagg actctctagg tcctaccaaa tcaagcaaaa ttgaaggagc 180
tggtaccagt atctcagagc ctccgtctcc tatcagtccg tatgcttcag aaagctgtgg 240
aacgctacct cttcctttga gaccttgtgg agaagggtct gaaatggtag gcaaagagaa 300

<210> 100
<211> 300
<212> DNA
<213> Homo sapiens

<400> 100
aagtcctatg aagctttggt acagcatgtc atcgaagacc atgaacgtat aggctatcag 60
gtcactgcca tgattgggca cacaaatgta gtggttcccc gatccaaacc cttgatgcta 120

attgctccca aacctcaaga caagaagagc atgggactcc caccaaggat cggttccctt 180
gcttctggaa atgtccggtc tttaccatca cagcagatgg tgaatcgact ctcaatacca 240
aagcctaact taaattctac aggagtcaac atgatgtcca gtgttctgta taaaatgcaa 300

<210> 101
<211> 300
<212> DNA
<213> Homo sapiens

<400> 101
atgttgccca ggctggtctc aaactcttga cctcaagcaa tactcctgcc ttggcctccc 60
aaagtgctgg gataataggc atgagccatc atgcctggcc gaacttattt ttaaattctt 120
tgggaatcta aaaggactat gtgctttctt ttttactgga ttatgtgaga agataatagt 180
ttgcagagaa attcagtgaa gcagctgata aaatgcttta aaaatatatt tcagagaatt 240
gagcaataac agtgatgtca aaatagtagc cccaccttct ccagcccacc taaaccaaca 300

<210> 102
<211> 300
<212> DNA
<213> Homo sapiens

<400> 102
gatgcaaggg ctgaagctga aacttcagag agcatcggca tttaaggaag aaccttggct 60
gggcgtggtg gctcacgcct gtaatcccag cactttggga ggctgaggcg ggcggattgc 120
ttgagcccag gagtttgaga ccagctggcc aacgtggtga aaccccgtct ctactaaaaa 180
tacataaatt agctgggcgg tagtggcatg tgcctgtaat cccagctact cgggaggctg 240
agagaggaga atcacttgat tctcctggga ggcagaggtt gtggtagctg agatcgtgcc 300

<210> 103
<211> 300
<212> DNA
<213> Homo sapiens

<400> 103
attttagtgg ttttacagtc atttttcatt taatatttac agaagtccta tgaaataatg 60
actgtgatta gatactgtta ttattaagga aactgagcct tagagaggtt aggtaacttg 120
tctaaggtag agctatgata caaacccggg tctcattggt tgggcatttg tgtcagtcac 180
tgagtataag gtaactggga caaggagctc aagcagctcg tcgtttagta tcagagacag 240
agagctcagg ccatggcccc actatgaaca aagtggtctt aggacacaga aaaagagtga 300

<210> 104
<211> 300
<212> DNA
<213> Homo sapiens

<400> 104
gcctgtagtc ccagctgctc gggaggctga ggcaggagaa ttgcttgggc ccgggaggcg 60
gtggttgcag tgagccgagg ttgcgccact gcactccagc ctgagcaaca gagcgagact 120
ctgtctcaaa caaaaaccaa aagacatcag gaaacatgcc tcttatggaa tttgaggggg 180
aaaagtcagg gtcttggcag tgaccttgga caagccatta gcctcttgat acctcttttc 240
tcatctgtaa aatgaaggtg gtagttacct acttcacagg gttattaggg gattcaatgt 300

<210> 105
<211> 300
<212> DNA
<213> Homo sapiens

<400> 105
cagaggcttt gctagtatcc ttcaaccaat ttctagtaaa aatatcctat ataaccataa 60
ttatcaaaac cagaaaaaca acattggtag gatactataa agtactaatc ttattttgga 120
tttgacgaat ttttacatgt ttttttcttt tttagtttgt actctaagaa gttgtattac 180
atgtacagat tcgtgtaacc actgcaacca cataaaacta atgaacacaa agtccctcat 240
gctacctttt tatgcttaca ctccatccaa acctaactct gccaaccact tttctcctat 300

<210> 106
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 106
acctgagcta gggttgcagc agaaattgag ttgcagcttg cccttgtcca gacctatttt 60
ctgcttgcgt ttttgaaaca ggaggtgcac gtaccaccca attatctatg gcagcatgca 120
tgtataggcc gaactattat cagctctgat gtttnnnnnn nnnnnnnnna taatgcgana 180
gangccatca cnntnctatt gtgtctnaan tntngccntg ngntattcca tgncntcntn 240
ntatnnanct ntacnaatan gttttacgtn atncnnttcg atttttg 287

<210> 107
<211> 300
<212> DNA
<213> Homo sapiens

<400> 107
ccctggatga aaacctaggc agtaccattc aggacatagg catgggcaaa tacttcatga 60
ctaaaacacc aaaagcaatg tcaacaaaag ccaaaattga caaatgggat ctaactaaac 120
taaagaactt gtgtgcagtt ttatttggga gtgtgtgtgg ggtacctctg agtttcaaaa 180
atgaagaaag taagtagtca tgctttcctg actctttggt agacatagcc tttaagacag 240
tcattctgag ctgttatggt cttagggttc cctatactac taaaacttat tgatgacatg 300

<210> 108
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 108
atgcccntag tacgcaacaa ntccttcntg ctccaagagt aggaaaatta ctgttctntn 60
tgccagtgag attcctcttc tggtattacc tttgcttcaa agtccctgaa ttgcccattc 120
cccacttcat agcacttatt gctatctgga attacactaa atgtcacctt catgatggta 180
ggcaatttat tgccttagtc acagttatgt ctagagaaca agcagctggc tcatagtagg 240
cactcaacaa atatttgttc aatgaatgaa tttataaatg aatgc 285

<210> 109
<211> 300
<212> DNA

<213> Homo sapiens

<400> 109
aattgtaact tattccagga taaatgtcat atgcatatga ttttcatatg actttgatga 60
gtatcttcag ggaaaattcc taaaaatgaa attgctggat taaggggtaa atgcatgtat 120
agttttgtta gacagggcca catacccttc cttagaggta gtacctttt gtattcctgc 180
cagtaatata tgagagtcca cagagtatgt ggttaagctt tagaatgctt gtccatctga 240
tagggaagaa atcgtgttgc cttaatttgc ccttctttta ttatgaatca gattttaatc 300

<210> 110
<211> 300
<212> DNA
<213> Homo sapiens

<400> 110
cagccaatag ccatgtaact gagcttggaa gaggatcttg ctgtcctggc caacatctca 60
ctgcaattct atcagttgaa ttccctggat agtccaagct ttgtggatcc ctccaccaga 120
acaactggat cccagtacct gaatcctgaa tcttagactc ttatacttca aacactgatc 180
acgggaacag ccggctcagc agctcctgag ttcctaatgc tcagaacatg gatgagatga 240
taaatgtttg ttgtgttaag ctgccaacct ttggcggggg ggtattcgtc acaggcaaca 300

<210> 111
<211> 300
<212> DNA
<213> Homo sapiens

<400> 111
aagcaacttc ttgcctcttc tcaatataga attcaaagat ttgagaggtt ctgcaagctt 60
tttcctgaaa ccaagtacct ctggtgacag tttacaaagt ggaagcattc cattggcaaa 120
tgaatccttg gagcacaaac ctgtatccag tttagcagaa cctgacttga tcaactttat 180
ggacttccca aaacataacc agatcataac tgaagaaaca ggctctgcag ttgaaccaag 240
tgatgaaata aagagagcca gtggagatgt ccaaactatg aaaatttcat ctgtgcctaa 300

<210> 112
<211> 300
<212> DNA
<213> Homo sapiens

<400> 112
ggccggttat tctctcttta cagatagcta tagacatcat tttaggaagt gttgcagtct 60
ggcatttgtg ctattgttca ttctctgtga aggctgttca tagttgctat agcctgtgtt 120
tagttttgtg atttcatcaa tcccatcttt ctgagtgatt aatgcattct aaacatccta 180
ccccacttta taaacggacg tggggaacgc ttggtcattt aagccaacaa taaatttatg 240
ggaatgtccc taagtgttta ctgtctttat ccagtcaagg atttgctttt ccttgaacat 300

<210> 113
<211> 300
<212> DNA
<213> Homo sapiens

<400> 113
gacttgaaaa aaagtcacat ccagcaaatg cagggtcaca tgaaatatgg gcctcctgga 60
atccctacag tggatggaga ctggctcata ccttgccaga tccctctctc agttccagcc 120
ttctggacaa ggcctgggct aagaggagct gattcgttat ctcttcaccc actgccctct 180
cagtatcacc agtcccaaag acaggatacg tccctgtaac ccaatctctc ggttgattga 240
tagcagaaca gctcttgttg gtctgagaag gcaggataag tgaccacata tttatgccac 300

<210> 114
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 114
gggggnnaa aaaannnatt tnannnnttt ttttncaaan nanagggggn tntngntttt 60
tnnattaaaa nnnccggggn nnnnccatnn ngtttttttt aaaaannntg gnaannctnn 120
ggngtngggg cccctnaant gttttnaaag acnccccctt ccaaattttg aaaacattgt 180
aattggagaa gaaggtanct ctgcaaggtt aatctgtcat tctcaatttg ccttattgtc 240
ttgtttatta agatgttgga aaagcaggag gtagctgtgc ctcaattatt g 291

<210> 115
<211> 300
<212> DNA
<213> Homo sapiens

<400> 115
aaacagaatc ccttttcct ttttttgtta aaagtactca tccctaatat tacattgttc 60
tggaaggact gaaaataaca gaactcagca ccatgatcgg accgggacaa tcagattatt 120
tcattcctca gcaaacggag atcgatccga aaagtggaaa tatgagctct tctttggtgt 180
tggcatatgg accctgagag aaagaacttt aatttttct cttggactgc aataaagtat 240
agctgcctaa aatacgtttc ctgacacttg gaggtttgtc cacaatcggg aaaaaaggca 300

<210> 116
<211> 300
<212> DNA
<213> Homo sapiens

<400> 116
aacagaatcc ctttttcctt tttttgttaa aagtactcat ccctaatatt acattgttct 60
ggaaggactg aaaataacag aactcagcac catgatcgga ccgggacaat cagattattt 120
cattcctcag caaacggaga tcgatccgaa aagtggaaat atgagctctt ctttggtgtt 180
ggcatatgga ccctgagaga aagaacttta atttttctc ttggactgca ataaagtata 240
gctgcctaaa atacgtttcc tgacacttgg aggtttgtcc acaatcggtg aaataaaggc 300

<210> 117
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 117
caaaggccct ggggctcctt ctagctggag gaatgcaagg ctagcttgtc tggagcactg 60
agaggatggc ctgaactgag tggagagaga cagaccagga ccaaaccatg cagaggtcaa 120
gggccacatt cacctttca gagtgactca atcaaatttg tagtttgtaa aagtatttta 180
acagctctgc ggcaaagtgc aaatgaaaag tcttgatggc atggactgga gcggggacag 240

tggggatgga gaaaggggaa tggattggtn gnnnnnnnnn nggtanatnc atgtgaac 298

<210> 118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 118
cccgctgagt ggcagtggca ggaagtcggt ggaagcagat ccctgtgcag aagttgaatt 60
accagggcgg ccacacacgg gctgcacaac ctttgcagtc gtgcacggca agtgggatgt 120
ggcctccgcc catgattggg cacctggtca ggctgggaga tccaaatagc acccagtggg 180
cagctgtccg acccctggag gggcaagcca ggaaagaaac ttagggcccg ctgtgaccag 240
atgtccctcc cagttgggaa gactaaactg gtttggccaa tatctcccag gattcccctg 300

<210> 119
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 119
gaaagcagat gtagtagaca tctactgttt ttgcctaaac agaatccctt tttccttttt 60
ttgttaaaag tactcatccc taatattaca ttgttctgga aggactgaaa ataacagaac 120
tcagcaccat gatcggaccg ggacaatcag attatttcat tcctcagcaa acggagatcg 180
atccgaaaag tggaaatatg agctcttctt tggtgttggc atatggaccc tgagacnaaa 240
gaaccttaat tttttctctt ggactgcaat aaagtatagc tgcctaaaat acgtttcctg 300

<210> 120
<211> 300
<212> DNA
<213> Homo sapiens

<400> 120
atttgagaca ctggtttaaa tgaaaatgga tataaggtat gtataactgg gggtggggtg 60
agggtaggag gcatttacaa ctcagatttt atttattttg aaattatcaa ttgtataaat 120
ctaatttatt accaaatagg gtcttttaaa aaatattttt atcgttgaaa ccttgacagg 180
tacttcatat tcttctaata atttaaacag tccaataatg tggtatacac tttgacatcc 240
aagaactcac caagatgttt ttcagagatt tattctcgat ttaactatca tagcatttaa 300

<210> 121
<211> 300
<212> DNA
<213> Homo sapiens

<400> 121
ggagaactgc tcactccttt tccctcccca tacaaactca aagtcccctg ggccccaatt 60
cagagttatg tttttttgg cacatactag aaaggcagtg cctcagccct tccctgaatc 120
catggaggtg ttctgtttgg ggctttttag actgctgctg ctcagctggt tgcttgaact 180
gacagtaggc cagcctgttc tctgccattc cctagtcatc ctgtgcctca ccacagcttg 240
cttagagcaa gccttttctc agaccttagg cacagcctct cctctttacc tgatcaatgt 300

<210> 122

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 122
ctttagaaca tatcactact aagtatcagc ttatcttcag aacattacaa cattcaccgt 60
gttcatatgc tttctgagaa gtcaccactt gtaatttcag atcacataca cctgaaggca 120
ttttatagtt cctaaagtta acatgttaga tctttttttt ccaccccatg agggtctcac 180
tctcacccag gctggaatgn nnnnnnntga ttgtagcaca ctttggccac caactcctgg 240
gctcaagtga tcctcctgct ttggcctcct ctgagaagct gggattactg gggcacacca 300

<210> 123
<211> 300
<212> DNA
<213> Homo sapiens

<400> 123
caccttteet ccagtttcca ataacacatt cctcttttcc acctgagacc tcaccagaat 60
caccttttaat gtctatattc ctaccaatag tctttttaag gcaatatagg ctttctctaa 120
catgcacttc aaacttcaag atggagggga tgccatacaa caggactatg tgatggtttt 180
tggctgtgtc cataggaagt cacaacaggc aagggaaaga aaccagaacc cagtcatgga 240
gttaagaagt gagtcagaga gtagatgggt agggacagtg aggtaaggcc tctttctaag 300

<210> 124
<211> 300
<212> DNA
<213> Homo sapiens

<400> 124
ggaactatgc ccctcccact cccatcattg ccaattaagt ctttttccct taaaaatcag 60
ctaaacatct ttccccttga tcccttagtt atgtactctc attcttcgtg tactccatgt 120
gattcaatag cacagatact tcagtagcac ttaccataat tgccatgaaa taattgtgta 180
gtttgcttaa tatttgtttc tcatattaga atgtaagctc catgagagct aggatcatgt 240
ctgatttctt tgccattgta ttgcagtgcc taaaacaata ttttacaaat ttaagtaatt 300

<210> 125
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 125
accatttctg tacaacacaa gctggccttg gcagtttcgg tgcatagaaa atcaggtcct 60
acagctcgag agggcagagc cacagtccct ggacggcgtg gactgaggcc ggatccttcc 120
tggaggcctn nnnnnnnngg ggaccccagn anctcatcat cancattgct ggagccaagg 180
agtctgntac ccacgtnnnn tngnggatgc ccgatgncng ntttggtntt nttgacntgt 240
tnntgntnaa ntnnttnnng nttctantnn tctgat 276

<210> 126
<211> 300
<212> DNA
<213> Homo sapiens

<400> 126
cctggcagtg ttgtcagctc aacctggtgg gttcagttct gtcctgaggc ttctgctctc 60
attcatttag tgctacgctg cacagttcta cactgtcaag ggaaaaggga gactaatgag 120
gcttaactca aaacctgggc atggttttgg ttgccattcc ataggtttgg agagctctag 180
atctcttttg tgctgggttc agtggctctt caggggacag gaaatgcctg tgtctggcca 240
gtgtggttct ggagctttgg ggtaacagca ggatccatca gttagtaggg tgcatgtcag 300

<210> 127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 127
cataatcgca aagtggaaca tgaagctcta ggcagtagtc tcctgactgg cccagaggga 60
cttttggcca aagaacgaga gaacttaaag cgattaaaat gtctgcgacg ataccgccag 120
cgctatggag tggaagcctt actgcatagg cagttgaagg aacggagaat gctggccaca 180
gatggtgctg cccaacaggc ccataccact cgttccagtc agaggtgctt ggcctttgtg 240
gatgatgttc gttgttccaa tcagtctctt ccaatgacca gacactgcct tacccatatt 300

<210> 128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 128
aggtgcatag agttttgcct ataatcccaa cactttggga ggctgagatg gggagatcgc 60
ttaaggccag gagttcgagg ccagcctagg caacatagca agacccccat ctctattaaa 120
acaaacaaac aaacaaaatg ttaaataaag gaagcagatg agtatgtgct aactaggctg 180
gcatgtgtct ttgttggtga catggagcct ctgtcatccc ctcacagact gcatacgagg 240
attggttcat caccctctac aacgtgctgt acaccagcct gcccgtgctc ctcatggggc 300

<210> 129
<211> 300
<212> DNA
<213> Homo sapiens

<400> 129
gacccaggta gaccagctca agagttcatg ttctttgtca tcctcctgtg agctctctgt 60
aagtctcttt cttgcccatc accacatccc tagtactggg tatcagtctg gccacttggc 120
tttctggttt gccccaatgt ggtctattct tgatgcagct accaaagtaa tgttttaaaa 180
ccattatacc aagttactat ccttgtcaaa acccccagta actgccaatc tcacttagaa 240
taaaatccgg actcctgtga agcacagcat aaactggcca ctgcctatgc agcaacctca 300

<210> 130
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 130
gtcgaatgaa tcctttgtcg cctttagctt ttagtccttt gaagagaggt gagagtggaa 60
atcaagagat ttttttccac ggggaagttc tttttacaaa gcgttgattt ctcggcaccc 120
cgcggggcgg gcaactgaca cggcctccgg tgcaccttct gcgctgtgga gcctctgggg 180
ctcagctgnn nnnnnntcgg gtcgtgnggc ggtagggcgg gagcggngga agggaaaagc 240
naangctgga aaagaagcag ggcagttgng aaccagacat ccagacctcc tgaagggctc 300

<210> 131
<211> 300
<212> DNA
<213> Homo sapiens

<400> 131
ctggactctg agtcgtcttg gtcccaggag ccagtagtga aggcaacagt ctgcccacct 60
gtggacacca gatcctggga gctcctggtt agcaagtgag atctctggga tgtcagtgag 120
gctggttgaa gaccagaggt aaactgcaga ggtcaccacc cccaccatgt cccaggtgat 180
gtccagccca ctgctggcag gaggccatgc tgtcagcttg gcgccttgtg atgagcccag 240
gaggaccctg cacccagcac ccagccccag cctgccaccc cagtgttctt actacaccac 300

<210> 132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 132
aaaactttgg gccatttcag aatttagaga gtttaatgaa tgtgcccttg tttaagtata 60
aaagtacagt tcaagtttgt aactccatac tttgtccaaa gactggacgg gaaaaaagaa 120
agtcaccgga aaaccggttc ctgagaaagc tcctcaaacc agacatagaa agagaaagac 180
ttaagaattg cctgggctca ccttgatcgt aagttgacag tgctggactg gcagcaaagt 240
gaccgttgga gtttaatgag aggaatatac tcatcatcag tctatttaga agagatttcc 300

<210> 133
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 133
tagggtaann cngnannaaa angngcanta ngttnagacn ngncnnncnn tnacnatnnn 60
ngantagaac atntctatnn ngnnnnnana tntnannngn naaanagggt tntatgnnag 120
nacnctcntc ncnnnnatcc attctcatca gcactgtccc aggatcctgg agagggagaa 180
cccctggccc caggggaaag agggcggggt ctcccgtttc ctgtgcctgc accagccctg 240
cccccattgc gtctgcacac ccctgcgtgt aactgcattc cataccaact aata 294

<210> 134
<211> 300
<212> DNA
<213> Homo sapiens

<400> 134

ccaatggatg caggaaaact gagatgggat ttccccacgt tgcccaggct ggtctcctga 60
gctcaaagca atccagattg ctgggattac agctgtgagc caccgtgcct ggctgagatg 120
acttttaaaa aaagacttct ctaaagtaga aggaagggtg gaattgtatg cacaagaaga 180
aaaaaacctg gaagaaaaac atactaaaga ggctggagtg caatggcgcg atcttggctc 240
accgcaacct ccgcctcccg ggttcaagtg attctcctgc ctcagcctcc caggtagctg 300

<210> 135
<211> 300
<212> DNA
<213> Homo sapiens

<400> 135
agactcttca ttctatcacc ctgtctcaca aaagacttgc ccaaggctac gaagcaaggc 60
agtgactaga gtccagacat cagaactagt tccatgtttt ttttttcact accagtccct 120
aggccccaaa ccgcagatcc tgctgtgtga ccattaagcc cctgactgtt ctaggctcaa 180
cttccaaccc tttctgcagg tcctattacc tctgcctcat cctcccaaca tgataaccag 240
agtcttcctt cacattgtac tgcctacccc cttatgttcc caggctctcc cttggtttta 300

<210> 136
<211> 300
<212> DNA
<213> Homo sapiens

<400> 136
gtgtgcttgt gaaagtgtcc aggcgtgtgc acagccagtg cgcccacttc cgggctcctt 60
gctccctgct gtactgaagt tttggatttt gcatccaatc ctgtgtgcct gcccttctgc 120
cgaaggcttg tgaggggcct gagtcctctg cccatcagga tgacaggctc cttcctgcag 180
ggccatagga gggaagtttt ggaaacacag aatgattcca aggtgctctc gttcctgagg 240
gggactggtt tgtaacccat gacatctgtg ggcgagagag gcagctggga gcaggacact 300

<210> 137
<211> 300
<212> DNA
<213> Homo sapiens

<400> 137
gctgcatctg caatgaggat gccaccctac gctgcgctgg ctgcgatggg gacctcttct 60
gtgcccgctg cttccggtgg gtgcaggtgg aatgttctgt gcgagagctc aagggctgcc 120
tggatccctg acttgtatcc ctttgttcca cagagagggc catgatgcct ttgagcttaa 180
agagcaccag acatctgcct actctcctcc acgtgcaggc caagagcact gaagacaccc 240
tggtcctccc ggaagggcag tcccacaggc agcggcaccc atttctgggc cccgccacag 300

<210> 138
<211> 300
<212> DNA
<213> Homo sapiens

<400> 138
gcagggcaga gttctacctt ctcaaacccc ccagccggca catcacacac cggaggccag 60
gacccaagcc cagcagacac aggatctgct aacgcagctg gcagctgagg tggctatcga 120
tgaaagctgg aaaggaggag gcccagctgc ctctctccag aatgatctca accagggtgg 180
cccagggagc actaattcca agaggcaggc caactggtcc ttggaggagg agaagagcag 240
actgctggct gaggcagcac ttgagttgcg ggaggagaac acgaggcagg aacggattct 300

<210> 139
<211> 300

<212> DNA
<213> Homo sapiens

<400> 139
aaaagatgag tgattttgtg tgggaaaagc cttcccaggc gtctgtaccg aaaggagcag 60
caaacaaggg gctaatccat gagcagtgtt ctgtaggctc tgtgacatct ttggtttata 120
ggattttgga gccttttatg atctggaact atttgagggg tttcattata ggccttggtt 180
ctctccaggg gccagatgag tttattgtgg aatctttgaa aggacaaggc ctctgtgaat 240
gaatcagtcc cagggaagca tttggtggtg gcggcagtgg aggattgccc ggtgaaccta 300

<210> 140
<211> 300
<212> DNA
<213> Homo sapiens

<400> 140
ctgctccgag tcaggcgcgg taaaaggcat tttacatatg ttacaaccgt gctctgaggt 60
gggtgttgtc ttcttttgcc cgaaaaggaa acagagaggt taagaactcc cccagagcca 120
catggacaga gctgggatcg aaccgaggct ccaagtccca gtgttctttc cagtacctca 180
tgcatagacc agccttttcc tcatcaggca gatcctgcag aactggcacc tgggttgcac 240
tcagtggcct ctctgacgcc ccgcctgtgt ggacctctcc acccccctgcc ttggcagcag 300

<210> 141
<211> 300
<212> DNA
<213> Homo sapiens

<400> 141
gccacattct gaggaacatg tcatgttctg ggagggctaa ggcatcaagt aaggcctgtg 60
gggctggagg atcccaggca aggtggggca atccagagcc atgggggctt cccatgggaa 120
ttgggaggtc ccaaggcaga gtcagaggtt ccacaggagg agtcagagag tcaccaaggg 180
ctctcctggc ccagggagca gtcaacacca tggactgaac acttgctggg ctccaaccct 240
tgggccaggc tgcccatgtg gggccaggag gcagctcaga gtgggaggca gagagagaag 300

<210> 142
<211> 300
<212> DNA
<213> Homo sapiens

<400> 142
ggagtgtgtt cctcttgacc ctggggctgc atctcctcgt tggtgacttc ctggggttca 60
gaccctgcca cctcctccat tttggggagc aagatctcat ctgtctctgg gacaggagga 120
cctgggttct gcactggtga ggctgagtgt ggggagcagg ctctgagccc ccagctcccc 180
gtgtcccctg ctccccaggt gtacagtgcc accaacgtgg agctggtgac acgcacacgc 240
acggagcacc tctctgatca ggacaagtcg aggagcaaag cggggaagac tccattccag 300

<210> 143
<211> 300
<212> DNA
<213> Homo sapiens

<400> 143
caagcgccca tggagctgcc cctggagcag gtgcccccac cgagagtgat ggaaaagccc 60
gtcctcgcca cctccaggca tggccagcag cgagcggctg gctctgcagg agaagtgctg 120
ggtctgagct ccgtcacggc cgctcccgag agcccgaggt ccaagcccaa cacgacttgg 180
aataaatgat caagttatga attaaacaca agagaaatgt aattaccaca ggagccagct 240

gagaataaaa tggattacgc acatcacagt cattaaacgg tgatcacatg cgcctttcta 300

<210> 144
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 144
gccctgccca acctgctcca gggaccagtg gtcttgggaa gcttgggctg actgggattg 60
cagactccgg gtctggtgta tagggccctt ggcaaatccc tattcctttc tgggcctcct 120
tgaagagaca gtgggctgag cttctaggct ccctttgatt cttctgtgtg tggcccagaa 180
tgggacagac agactgagct gggcacagaa ataccatagt gacagaacca ttcgaagacc 240
ctgccctgat ggaggccccg ggccagggga ggaggcnnnn nnnggctgtc natctgaa 298

<210> 145
<211> 300
<212> DNA
<213> Homo sapiens

<400> 145
gcgacacttc cgcctgcacg agttcttccg gggcggaggt caccatggca gctgccttgg 60
ctcggcttgg tctgcggcct gtcaaacagg ttcgggttca gttctgtccc ttcgagaaaa 120
acgtggaatc gacgaggtac gaaggggaag tgggtagaag cgggaagtgg tgcgccttcc 180
ttcagccggg gctttaagcc ctcagcttgg cgctcctctg tttttccacc gtaggacctt 240
cctgcagacg gtgagcagtg agaaggtccg ctccactaat ctcaactgct cagtgattgc 300

<210> 146
<211> 300
<212> DNA
<213> Homo sapiens

<400> 146
aattgatgag ccttattaac tatcttttca ttatgagaca aaggttctga ttatgcctac 60
tggttgaaat ttttgaatct agtcaagaag gaaaatttga tgaggaagga aggaatggat 120
atcttcagaa gggcttcgcc taagctggaa catggataga ttccattcta acataaagat 180
ctttaagttc aaatatagat gagttgactg gtagatttgg tggtagttgc tttctcggga 240
tataagaagc aaaatcaact gctacaagta aagaggggat ggggaaggtg ttgcacattt 300

<210> 147
<211> 300
<212> DNA
<213> Homo sapiens

<400> 147
tgttcttgta gtgtttgttg ctattgttag aaagattatt agtgatatgt ggggtgtctt 60
agctaaacaa cagacacatg taagaaaaca ccagtttgat catggagagc tggtttacca 120
tgcattgcaa ttgttagcat atacagccct tggtatttta attatgagac taaaactctt 180
cttgacacca cacatgtgtg ttatggcatc actgatctgc tcaagacagc tatttggatg 240
gctcttttgc aaagtacatc ctggtgctat tgtgtttgct atattagcag caatgtcaat 300

<210> 148

<211> 300
<212> DNA
<213> Homo sapiens

<400> 148
attttgccat gtggcagttg gtttgtggag ttgggcaggt gtgaaagggt aaaactccac 60
ttctgaatgc tgcttctgcc ccctgggacc cagcacattg ttagaccatc ttcttgactg 120
aaaattctct cctgatgctg agccctgcac caccaccttc cttttcctaa ctatgaattg 180
atggcaaagt ccactcaaaa caaccagtta agtgctcacg agagagtagt caagcacctc 240
cagaaagaaa ccgggttttt gttcacatag caggaagtga ctccctgggt ggtaatttat 300

<210> 149
<211> 300
<212> DNA
<213> Homo sapiens

<400> 149
ttcaccaata gaacatgtca cacacgaact ggaaactgat tctgtgggcg acaagagtct 60
atagtaaacg ttatgacaga ttctttgaat gcgctaatct cagactggac taaagttggg 120
attaaattta atttgtactt gagttcagtg cattgctgtt ctgggcatag gaaatccagg 180
ttgctggtga tgaacagctg aaaagagctg tgtcaccatg gttgtctctg tcagtcatgt 240
gaccaccctt acccttgtaa aatcaagcaa gggagagatt attttctaat gtaaagaaaa 300

<210> 150
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 150
gcaggagaat cacttgaacc ctggaggtgg cggttgcagt gagcacagat catgccactg 60
cactccagcc tgggcaacaa aacgagactt cgtctcaaaa aaaaaaannn nnnnnnnnnn 120
atcctttggn cgggttctcc caaattnttt tgaggggncc atggncaacn gcttnagctt 180
tgttttggca accccntgcc cnaagncgca tataggctgt tcttnacctt gtttccaagg 240
ctgaggaaca naaagtancc tntgttttga ggaggnggaa gttaagtatn cnttaatttt 300

<210> 151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 151
agaaattaag gcctctgggt tcaatttttg gccccagtgt tgacctctgt gtaagcctgg 60
caggatgtct catttctggg tcacctttc cttgccaaca tagtgaggta tgtagaccaa 120
atcattgcta agagccttct aactcctaag acactaggtt tagtcagcca aaagcatgtg 180
attttcccag atttcccaaa ctccttgtaa cctaattgaa agtacacaat gaacttgcaa 240
gaatttaagc atccttagat gccagtcttc actttgggta ttttccagcc tcctcagtga 300

<210> 152
<211> 300
<212> DNA
<213> Homo sapiens

<400> 152
gcaaaataaa tcatcagcag ttgggccacc tgaaaaagtg agacggttta ctctggatag 60
acttaagcaa ctgggagtag atgtttccat taaaccacgg ctaggtgctg atgaagattc 120
ctttgtgata cttgaacctg aaaccaacag agaactggaa gccttgaagc agcgtttctg 180
gaagcatgct aatccagcag ccaaacccag ggctggtcag acagtgaatg tgaacgtcat 240
agtgaaagac atgggcactg atggaaagga agagctaaaa gcagatgtgg tacctgtgac 300

<210> 153
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 153
gagcttcgga agctgccagt gccacaggga cccaaccccg tggtggtggt gctgcagcag 60
gtcttccagc ttatccagaa ggtgctgagc aaatggttga atgatgccca ggttgnnnnn 120
nnggtgtgct ctatctttga taagtttgnt nntanactgc tgnatgactt tnanntcatg 180
gtgcanaaat gtgaaagatg ctttgccaaa tatgntaaat antgcttggg gccttgttnt 240
gaattttcnt caatntnncc atanatgatg natctttann gntcacccta ttc 293

<210> 154
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 154
tatcagacaa tattttatta ttttttcata gatgttctgc cacacaaaga acttggggtg 60
taaggataag gcaaaagctc caatcccatt attcagttct cctaggatgc acccctcagg 120
gagcctggcc agagttccga ggccnnnnnn nnnnnnntgn cncntgntcn acnntgnnng 180
gctncggcgc aggcnngnct gagnantncc atgangctga tagnannctg antctgccgg 240
ngaacngtna gganagagac nttactcgga 270

<210> 155
<211> 300
<212> DNA
<213> Homo sapiens

<400> 155
ctgcccggtg gagcgggtgc ttctcacctt ctgcaaccag tatggtgccc gcctctccct 60
gcgccagcca ggcttggctg aggctgtgtg tgtgaagttc ctggaggatg ccctggggca 120
gaagctgccc agaaggcccc agccagggcc tggagagcag ctcacagtct tccagttctg 180
gagttttgtg gaaaccttgg acagccccac catggaggcc tacgtgactg agaccgctga 240
ggaggtgcta ctggtgcgga atctgaactc ggatgatcag gctgttgtgc tgaaggccct 300

<210> 156
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 156
ttgattaaaa acngcctcct taacctctga agactgattt tgctttatca tgtttcaata 60
ataacatttc agaggttact ctgtagcccc agttgtaagc ttataaaaac aaactggaag 120
gctgaggagg ttatgggctg gcagccaggc tatgtttaca gctgctggag atggcagtag 180
ccttatactt tgagcaggta gtacatccca ggctgtgcta gaggtagatt tgttttttca 240
cgtttgatct gtggctggtg gccacctttg ttgatttggg cttacgagtt tcatagtagc 300

<210> 157
<211> 300
<212> DNA
<213> Homo sapiens

<400> 157
gttggcttgg tgtggatgca ggttgctctc aaggaggatc tggatgccct caaggaaaaa 60
tttcgaacaa tggaatctaa tcagaaaagc tcattccaag aaatccccaa acttaatgaa 120
gaactactca gcaagcaaaa acaacttgag aagattgaat ctggagagat gggtttgaac 180
aaagtctgga taaacatcac agaaatgaat aagcagattt ctctgttgac ttctgcagtg 240
aaccacctca aagccaatgt taagtcagct gcagacttga ttagcctgcc taccactgta 300

<210> 158
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 158
ggtgtccaca ctgaagggcc agctgcagca ggagcttcga aggagctcag cacccttctc 60
cccaccctcc ggcccccccag agaaatgagc tcctgctggc atctggagaa caccccctgtg 120
cctgggacag gggaggaccc ttcttttgga cagccccccc ccagagcccg gtcccttgnn 180
nnnnntaagc tgnnnnnnca ctgggagact ntgntantga aatnctnntc ctnngctaat 240
ttantcntan ncgngnggtn tcttncctgn nnccaagnca ncncatgcat gtttt 295

<210> 159
<211> 300
<212> DNA
<213> Homo sapiens

<400> 159
aagcccgcca cccactgtgg gactttctgg tgggctcctc agctcccacc ccaggctggg 60
gcccagattg tgaggtctgt gtgcatgtgt gtgtgtatgt gtgtgtgcat gcgtgtgtgt 120
gttgtgggga tctggcctgg cccttgggga tggggctgct ggggactgcc ccccttcccg 180
ccgtggccag gcgctctgtg tgctgtgtgt gccccaggct ctgttgaccc cgtccaggaa 240
ctaacttacc cagcttggtc tctcctgagt cctccaccct ggcctgggat tggccaggga 300

<210> 160

<211> 300
<212> DNA
<213> Homo sapiens

<400> 160
tgccctcagg cagccaaagc actttaaccc ctgcataggg agcagagggc ggtacggctt 60
ctggattgtt tcactgtgat tcctaggttt tttcgatgcc acgcagtgtg tgcttttgtg 120
tatggaagca agtgtgggat gggtctttgc ctttctgggt agggagctgt ctaatccaag 180
tcccaggctt ttggcagctt ctctgcaacc caccgtgggt cctggttggg agtggggagg 240
gtcaggttgg ggaaagatgg ggtagagtgt agatggcttg gttccagagg tgagggggcc 300

<210> 161
<211> 300
<212> DNA
<213> Homo sapiens

<400> 161
cccagctgga cctggtggcc ctttcctagt gcctctgctg ggggaggaga gcctgtgtgc 60
acgtggaggc taggaggtct caggtgctgc cctggcagca ccagagtgtg ggccgggccc 120
gagtgtctgc ccctcggccc tcagggtggg gcacttagca cccagaaggg accaaaagca 180
gggcatggcg gtgcagagga gtttgggagg tgtaaacagc cccatgcacg tggaggagga 240
gctggctttc agccccagac cccacgctag cactttccac gctgcttgcc cgctgatgat 300

<210> 162
<211> 300
<212> DNA
<213> Homo sapiens

<400> 162
gtccttgtcc agcctccaag acccacaagt cccttcctct gggaagcccc cctggcctgg 60
aggtgcacca ggaagaagtg gtctggggct ggcactaagc catggcccag ggaagactgg 120
gggacccact aggccaggat gagacctgca cgcagtggct cacagcagca cgatttgtga 180
cagcccgagg cggagaacac cgaacaccca gtgaaggtga ggggatcagc acggcgcggc 240
cacccacgca cccacgcgct ggaatgagac tcagccacaa ggaggtgcga agctctgacc 300

<210> 163
<211> 300
<212> DNA
<213> Homo sapiens

<400> 163
ctgacggagg ctttgctggc tgtggtgatg gggattgagt tgggggcaag ggtccctgcc 60
tagactgttg acgtcccctg ggaaggggac ccaaggatga attggctgtg aaggatcctc 120
cctgagactg gcaagggagg aggctgagca gaaggagtca tcatggagga gcggtgagaa 180
catggaaccg gactccaaga tgacgatcta aagacccggg agcgagaagc caaggccagg 240
ttctgggtgt agggcccaga gaagcagaac agcccagagc cccaggtgcc tggcctggcc 300

<210> 164
<211> 300
<212> DNA
<213> Homo sapiens

<400> 164
aggcagcagg tgaagaggca gggcccctga cggaggcttt gctggctgtg gtgatgggga 60
ttgagttggg ggcaagggtc cctgcctaga ctgttgacgt cccctgggaa ggggacccaa 120
ggatgaattg gctgtgaagg atcctccctg agactggcaa gggaggaggc tgagcagaag 180

gagtcatcat ggaggagcgg tgagaacatg gaaccggact ccaagatgac gatctaaaga 240
cccgggagcg agaaagccaa ggccaggttc tgggtgtagg gcccagagaa gcagaacagc 300

<210> 165
<211> 300
<212> DNA
<213> Homo sapiens

<400> 165
agacaaagaa aaggtggcaa tcatagaaga gttagtagta ggttatgaaa cctctctaaa 60
aagctgccgg ttatttaacc ccaatgatga tggaaaggag gaaccaccaa ccacattact 120
ttgggtccag tactacttgg cacaacatta tgacaaaatt ggtcagccat ctattgcttt 180
ggagtacata aatactgcta ttgaaagtac acctacatta atagaactct ttctcgtgaa 240
agctaaaatc tataagcatg ctggaaatat taaagaagct gcaaggtgga tggatgaggc 300

<210> 166
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 166
cttgacttcc aactgcccct gagatttgac ctccagtata aggggcaggc gggtgccctg 60
gagcgtccag tcctcattca ccgagcagtg ctcggttctg tggaaagact gttgggagtg 120
ctggcagaaa gctgcggggg gaaatggcca ctgtggctgt ccccgttcca ggtggtggtc 180
atccctgnnn nnnnnnnnna agaggaatac gccaaagagg ctcagcanat gcctgcgggc 240
tgcaggactg gncantgacc tggatgctnt antctggact gatcct 286

<210> 167
<211> 300
<212> DNA
<213> Homo sapiens

<400> 167
ggattctttc actgagcaca aagagttgtt ggggctttag catctgactg atttttttac 60
ggggttgatt ctgaccatag gaagtatgca atgtgaatca ctatttacag agaaacctac 120
aacagatgct tgatgttgta gaaactggga catatagata ccaagcaaaa ttataagaaa 180
cctataaggt gttcaatacg cttgtgtttc caaaattcac tgtacatgat cagtttggtg 240
ttcttgtacc acagttttta actgaaggaa ccagttgtaa cagtctcaat tttaactaaa 300

<210> 168
<211> 300
<212> DNA
<213> Homo sapiens

<400> 168
caaggctgca gtaagctacg atcacaccac tgcactctgg cctgcatgca ctctggcctg 60
catggcagaa caagaccctg tctctaaaaa aagagaaaga aatcaaacta atcatgctgc 120
tcatggattt ttccaataaa tttcttgttt tggcaggaag aaatgaacac tggtattaga 180
cttaaagatt aaatttcctc aaacatgtcc tatctgtagt agttcaacta gacacctttt 240
aaagtgcctc taaattcatc agatggccaa actgtattta taatccactt aggcattttg 300

<210> 169
<211> 300
<212> DNA
<213> Homo sapiens

<400> 169
gcaagccagg agtgctggca caggcctgtg gtcgcagcta ctcgggaggc tgaggccgga 60
ggatcgcttg agcccaggag gtcaaggcta cagtgagccg tgatcatgcc actgcactcc 120
agcctgggtg acagagcgag accctgtctc ttaacaacaa aacccatgag cggcagcccc 180
ccagtcctgg atggtggtaa agaatcctca agatcaaacc cacgcagtgc tgagagcttg 240
gcctgattct agggctgggg ctggagaaac tgctagagat gatgccgata gccagtgtga 300

<210> 170
<211> 300
<212> DNA
<213> Homo sapiens

<400> 170
caagagagag tgatagaatt ggcagtgaaa tatacgaacc accctcctgc cctctgggtt 60
cacaatacgt gtacacttga ctgtgaagtg gctgtgagag tgggtggaga gttcttcttt 120
gaccctcagc ctgcggatgc ctctagaaac ctcgtgttga ttgcaggagg agtcggaatt 180
aaccctctgc tttccatcct gcggcacgca gcagatctcc tcagagagca ggcaaacaaa 240
agaaatggat atgagatagg aacaataaaa ctattctaca gtgcaaaaaa taccagcgaa 300

<210> 171
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 171
tttgcagccc cccctaggtg gacccnttaa ngatttggnt tttcccctgg gcanccaacc 60
tgccccanag gcnccagacc tgggntttca gctttgggnc caggctgccc aaaggnactc 120
cnttatacnc ccggcncctt ncncgaaana nggnncttnc caagcaagcc cctangattt 180
gtccctatan anggaaangt gtggcangcn catgagttna aattntttta ngcnattctt 240
ataatcaaaa tctgaaggga aaaaaatgtt ttagttcttt ccccactcgt tgggttcaac 300

<210> 172
<211> 300
<212> DNA
<213> Homo sapiens

<400> 172
cctagtccca gagtcctgga gcggcatact gggggtggct gtgcagtccc agcatcccca 60
acccagcatg tatagagagc atccatcctt acatccagct gacccatgcc catgctcctc 120
cctgtggctg gaggttcaac aataacataa gtctcttctt tgccctccag atatttctcc 180
ctcgagtggc tgggaaactt ggcaagagac cagaggaccc aaatgcagac ccttcaagtg 240
aggccaaggc aatggctgtg ccctatcttc tgagaagaaa gttcagtaat tccctgaaaa 300

<210> 173
<211> 300
<212> DNA

<213> Homo sapiens

<400> 173
cgtgctaatg gaaaaattgt tagtaaaaat aggttcatgc agtcttattg atcatgcttg 60
taattctgaa gattccactt gtacttttg taaccatatt tctcttctct tccattctct 120
agttgtgaga aaacccagtt gtccaataat tgtcaagctt tcctcggcct tagggaatga 180
gcactcaaga cctttctggg ccaagtgtgg tcgccgactc ctgtaatcct agcactttgg 240
gaggccgagg agggagagct gcttgagcct aggagttcaa gactagcctg agcaacagca 300

<210> 174
<211> 300
<212> DNA
<213> Homo sapiens

<400> 174
ggaaagagaa gcatgcaaca attagatccc tcaccagctc gaaaactgtt gaagcttcag 60
ctacagaacc cacctgccat acatggatct ggatctggat cttgtcagtg actttatgag 120
agtttctgcc acaaggtgcc caagaggaga ggaatgggaa gagtgcccca gcacgtggtg 180
actgcgtgat ttctgctcgt tgcctttgaa gataactggc aggactgact gtagaacact 240
ttgacttttt tcaaaaagtg atggaatttg tacatccaaa tgaatattgt atagacaatt 300

<210> 175
<211> 300
<212> DNA
<213> Homo sapiens

<400> 175
ctggaaacca tttaccagaa agtgacgggc aaggagctga gatacgaggg cctgatgggc 60
aaacccagca tcctcactta ccagtatgcc gaggacctga tcaggcgaca ggcggagagg 120
cggggctggg ccgcccccat ccggaagctc tatgctgtgg gtgataaccc tatgtctgac 180
gtatacggcg ccaacctgtt ccaccagtac ctgcagaagg caacgcatga tggggcgcca 240
gaactagggg ccgggggcac acggcagcaa cagccctcag caagccagag ctgcatctcc 300

<210> 176
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 176
cgaaagccca tttcaagctt tgtgctgcct cttgatctac ctctttgtcc aggtggnngc 60
gctttgcctg gaggatttgc atgcgtttat tgcgcaggcc ttgtgcctcc aaggaaaatc 120
cacctcgcag cttgtaaatc tacagcctga ttacatcaac cccagagccg tgcagctggg 180
ctcccttctc gtccgcggcc tcaccactct ggttttagtc aacagcgcat gtggcttccc 240
ctggaagacg agtgatttca tgccctggaa tgtatttgac gggaagcttt ttcatcagaa 300

<210> 177
<211> 300
<212> DNA
<213> Homo sapiens

<400> 177

accctctctg gccacatgga ggcagtttcc tcagttctgt ggtcagatgc tgaagaaatc 60
tgcagtgcat cttgggacca tacaattaga gtgtgggatg ttgagtctgg cagtcttaag 120
tcaactttga caggaaataa agtgtttaat tgtatttcct attctccact ttgtaaacgt 180
ttagcatctg gaagcacaga taggcatatc agactgtggg atccccgaac taaagatggt 240
tctttggtgt cgctgtccct aacgtcacat actggttggg tgacatcagt aaaatggtct 300

<210> 178
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 178
actgctcctt cattcccaag aagaaaagac aagtactgct acttccaaaa ctcagacacg 60
acttgaaggt gaagtgactc ctaattcctt gtcaaccagc tacaagacag tgtcattgcc 120
attaagctct ccaaacataa agctgaatct cactagccct aaaaggggtc agaaaagaga 180
agaagggtgg aaggaagttg tacgaaggtc aaagaaattg tctgttccag cctcagtggt 240
gtcggaggat aatgggaaga ggaggatgcn ncatcnctgc nntacaggat gttactgg 298

<210> 179
<211> 300
<212> DNA
<213> Homo sapiens

<400> 179
gcaaggttgt gacattgtca ctttttttgtt ctagactctt ttaaattttc tgcatttgcc 60
tgaaaagcac ccctgtaaga atagatttct catggctcta aaaattattc ccaagaatac 120
cttacttggt tcaaaagcag actgtttctc ttcatttcat ctcaaatcag acttctgggc 180
aagatgttct ttagagtaag caaacctaca acctaaaaat ctcttcaaga ggcatctctg 240
gtcttgtgac aagacctctt caaaaaccca cagtaaaact cccctccctc cagttggcca 300

<210> 180
<211> 300
<212> DNA
<213> Homo sapiens

<400> 180
attacttaga agcttataac gaaagctaaa aagcaatttt aataggttca gtaaagccaa 60
ctaccacata gattttactt aatatgtata agaatacaag ataaaagatc tttagacact 120
ttacaaaact gccaaacttg ctaaagaaga tgaacctgat aaacagccac aggtacacag 180
cctgtacact gaaatgtacg tgggaaagca cagtgcaaga atttcttgag ctgtcctgag 240
ggttatgtta accagagctt ctcaacctca ctacatattc aaatggcccg ggagcttttc 300

<210> 181
<211> 300
<212> DNA
<213> Homo sapiens

<400> 181
cttctaaatg tcctcctccc cacttgtttt attattactg ttttttttctc tctttaatgt 60
tttttttttat agagacatgg tctcactatg ttgcctgggc tgatctcaga ctcctgggct 120
caagtgatcc tcctgcctca gcctcccaaa gtgctgggat tataggcgtg agccattgcg 180

cctggctctg ttactggttt tctaacctga gttacttagg atcatatttt cattcttttt 240
taaaaagatg ggagttttct gaacttttcc ttaactaaaa agttggaatg catcttaata 300

<210> 182
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 182
gtacggtttt gttgaaccat atcctgacaa cacagatgac acagctgaca ttcagatggt 60
gacagttcgt gaggcagcat tacagggaac aaaaactgaa gctgaaaggc acctagtgta 120
cgagcgctgg gatttcctat gcaaactgga gatggtaggg gaagagggag cctttgtgat 180
agggannnnn nnnngctgac tgaagaggag ctgaccacca cactaaaggt actgtgcatg 240
cctgctgagg agttcagaga gcttaaagac caggatggag ggggagatga taaaagggaa 300

<210> 183
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 183
gtctaatttt ttccattttt ctctcctctt tctcaagtct tcttttttgat tttacttttg 60
cttttcctgc agttccttct ttatcatgta tgtgcttttt ggaactcttt ctgtcagtgg 120
taaagtctgt agagtttcca gactgaagac tcagctctaa gcaaggtttc acttgcgctt 180
caagattttc ctgatacaaa gacttttcca tgtaactttc atcactnnnn nnnnnngntn 240
tgtaaatcct tttgattntt gattnntccc ancatataaa nnntctntan nncctcct 298

<210> 184
<211> 300
<212> DNA
<213> Homo sapiens

<400> 184
gaacagacaa gttctgtccc agcctctgct acctctaacc ccatggcatt ctatcctttt 60
ctacactggg cttccatttc ttaccccaac aatgatctgt tcttccaggt gctgtcattt 120
aatttcccag acacttgacc tccttctgat ttgtgtactc cctccaaggc tgagttgcag 180
tgagtgacaa taatctgtgc taattactta tcttgccaga agactcaaag ggtttatggc 240
ttttactaac tgaactctat gctagatgtt agggataaat ggttaacagg acacagttct 300

<210> 185
<211> 300
<212> DNA
<213> Homo sapiens

<400> 185
aaggccttag gctttttttt tgtagggtga gagtggggga gagatctctt gctctgttgc 60

ccaggctggt ctccagctcc tggcctccgg cagtcctccc acctcagcct cccagagtac 120
taggattatg ggcatgagcc accacaccta gccaggcttt ttatattgag ttggttatat 180
atgcttcata gccacacttt ataatattgg agtatagtat taaattacag cttgttgtca 240
agtcagtgtt tctgtaagac agtatatcca atattggtta gagtaacacc tatttggtga 300

<210> 186
<211> 300
<212> DNA
<213> Homo sapiens

<400> 186
aaaactttaa gaaaaccaat gtttggggcc aagcaatggg gagcttggcc gacctcattt 60
ttttagtgat tttgaactca atctttaaaa tcctggaaga gaaggaaaaa aagggtgtat 120
attcgtgtaa tgacatccag atctcactgt tctcttggct cctagtgatg ggggaaaaaa 180
ggtgcgccca gggttgaccc ttcagtaaca cctgcagcca tgcatcatga cctccaggtg 240
ttcagaggcc ctgcccatgt gacacgtgcc tggtacttcc catacatgtg cctctttaat 300

<210> 187
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 187
aannatnnna tatnttannn aacnnnaacn naccnannnn nnntanngaa nntaanaatn 60
aangnacnnt aangannnnn nntgaanacn tncannnaan tcnctaaaan nggngtanat 120
gacttcccct gctccgcatt ttgtaaaatg gcccctgggg gagtgttttt gctggatctg 180
ctccctctcg ctctctcact ccactacttt ttggaacaaa gtgatggcag aatgcggtgg 240
tggtgggggt cttttgtact gttggattaa taaaa 275

<210> 188
<211> 300
<212> DNA
<213> Homo sapiens

<400> 188
cctcctgtcg gggaggcaag gtggttttgg accagacagg cgtgtctaag ggttatggtt 60
ttgtgaaatt cacagatgaa ctggaacaga agcgagccct gacggagtgc cagggagcag 120
tgggactggg gtctaagcct gtgcggctga gcgtggcaat ccctaaagcg agccgtgtaa 180
agccagtgga atatagtcag atgtacagtt atagctacaa ccagtattat cagcagtacc 240
agaactacta tgctcagtgg ggctatgacc agaacacagg cagctacagc tacagttacc 300

<210> 189
<211> 300
<212> DNA
<213> Homo sapiens

<400> 189
gaacaagcac agcccaagcc agatgtacag cacacacagc atcccatggt ggccaaagac 60
aggcagcttc ctaccttaat ggcacagccc ccgcaaactg tagtacaggt gcttgcagtg 120
aaaaccacgc agcagctccc taaactgcag caggctccga accaaccaaa aatctacgtg 180
caaccccaaa ccccccagag ccaaatgtcg ctcccagctt cttcagagaa acagacggca 240

agccaggtgg agcagccaat tataacccaa ggatcctctg ttacaaagat aacttttgag 300

<210> 190
<211> 300
<212> DNA
<213> Homo sapiens

<400> 190
cgaaagccca tttcaagctt tgtgctgcct cttgatctac ctctttgtcc aggtggatac 60
gctttgcctg gaggatttgc atgcgtttat tgcgcaggcc ttgtgcctcc aaggaaaatc 120
cacctcgcag cttgtaaatc tacagcctga ttacatcaac cccagagccg tgcagctggg 180
ctcccttctc gtccgcggcc tcaccactct ggttttagtc aacagcgcat gtggcttccc 240
ctggaagacg agtgatttca tgccctggaa tgtatttgac gggaagcttt ttcatcagaa 300

<210> 191
<211> 300
<212> DNA
<213> Homo sapiens

<400> 191
gaggatctgc cttctgagga agtggatcaa gagctgattg aagacagtca gtgggaagaa 60
atactgaagc aaccatgccc atcgcagtac agtgctatta aagaagaaga tctcgtggtc 120
tgggttgatc ctctggatgg aaccaaggaa tataccgaag gtcttcttga caatgtaaca 180
gttcttattg gaattgctta tgaaggaaaa gccatagcag gagttattaa ccagccatat 240
tacaactatg aggcaggacc agatgctgtg ttggggagga caatctgggg agttttaggt 300

<210> 192
<211> 300
<212> DNA
<213> Homo sapiens

<400> 192
gatctgcctt ctgaggaagt ggatcaagag ctgattgaag acagtcagtg ggaagaaata 60
ctgaagcaac catgcccatc gcagtacagt gctattaaag aagaagatct cgtggtctgg 120
gttgatcctc tggatggaac caaggaatat accgaaggtc ttcttgacaa tgtaacagtt 180
cttattggaa ttgcttatga aggaaaagcc atagcaggag ttattaacca gccatattac 240
aactatgagg caggaccaga tgctgtgttg gggaggacaa tctggggagt tttaggttta 300

<210> 193
<211> 300
<212> DNA
<213> Homo sapiens

<400> 193
ggctctgacc ctgcaggact gggcagccca gcggtgcacc atctcctacc gagccccaga 60
gctcttctct gtgcagagtc actgtgtcat cgatgagcgg actgatgtct ggtccctagg 120
ctgcgtgcta tatgccatga tgtttgggga aggcccttat gacatggtgt tccaaaaggg 180
tgacagtgtg gcccttgctg tgcagaacca actcagcatc ccacaaagcc ccaggcattc 240
ttcagcattg cggcagctcc tgaactcgat gatgaccgtg gacccgcatc agcgtcctca 300

<210> 194
<211> 300
<212> DNA
<213> Homo sapiens

<400> 194

gaagaatact gtgaattcta tgactttatc aaaatccagc cacatccagg agcttgcagt 60
tgttgaccaa atgaatgatg acatagagta gttcagatct atcatgtgct cttctatcta 120
atcagtcaat atttccttgg ccctcaagcc aacattcatt ttttatgtat aaccttcttc 180
atgattttga aattttgata gggtaactgc taatgagttc acaaatgtag cactttaaaa 240
ggaaaataaa tggagagtga aaacaacttg gctacgtata attgtgggtt ttaatttttc 300

<210> 195
<211> 300
<212> DNA
<213> Homo sapiens

<400> 195
gttgagcaat atgaatataa tgccaagtac tgataaaata cggaattcat ttagaatcaa 60
cataggtaga cagactgttt ttagtaaggt tttgtttttt ggtgaatacc atgtttgggc 120
tgtcagactt acttttcccc tgagatccat attttgtaca tgacatacca gatatatgca 180
atatgaaacg gaaacagttt ttcaatctaa tatccaggag tttgtgttaa tatcttgtga 240
acttgtggct cttggtatct ggcattgata aggctgtcta ctaatcctag agaaagggaa 300

<210> 196
<211> 300
<212> DNA
<213> Homo sapiens

<400> 196
ttgagaacct gcctctatcc cagaatgtgc tggagatttg acactcaaat cagtgtttag 60
tcttctgctt ggcaccatag cttaacctgc agtttcttca aaatgcccaa tgccttgttt 120
cctattacct tagattgcaa accagtctag ggaagtctat gagaaagtag catttaatta 180
aagtttaaaa aaaaaaaggt tgggcgttgt ggctcatgcc tgtaatccca gcactttggg 240
aggctgaggc gggtggatca ctaggtcagg agttcaagac cagcctggcc aacatggtga 300

<210> 197
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 197
ctaaaggcag cccccaagtc ccagaaagct gactccccta gcatcgacta cgcagagctg 60
ctgcagcact ttgagaaggt ccagaacaag cacctggaag tgcggcacca gcggagcggg 120
cgtggggacc acctggaccg gagggttgtc ctctgacagg cctggcacgg aggagggccn 180
anncgannngg ntncatgant nnttnntgnt gnnngcnntn cngatgannn nntngganna 240
ngnngntnnn actngntggn nctg 264

<210> 198
<211> 300
<212> DNA
<213> Homo sapiens

<400> 198
cactcatttg gaagagtgag ttttgtgagc acaaagtatt aagggccaag actggggctg 60
cacatgagca attatggggt ggagttgaga aaaaaaagtg tagcctgatg gaggtctctg 120
gaatagaaca agccttgccc atgcaggctt ccgagcagcc ctgggtgggg ttgtggggag 180

gcccccagcg gcttgtggca gccttcagct ctgcaggagc ccgtggggtc tagagtcacc 240
gccctctgtg aactggaagc tgctctaatg ctgtgcacgt tttgatgtca caactatttt 300

<210> 199
<211> 300
<212> DNA
<213> Homo sapiens

<400> 199
cctagaattt gtggagctgg gttgtatcat aggaaatgca agctgtgctg gtgttcacag 60
ctagagagga gaatggttgg atgtgcacct ggctctgcag gaagcccatc tcaggttatt 120
gctgaggata agaagctggc actggaatgg ttggaaaggc tgtaagagct ccacatgcca 180
cctggccctt tttgggtatg tggtgcccag acctgagctg ctatttagtc tgacaaagat 240
agagggattt tttttcttcc ccctttgggc aacctgccca tgtattgtac agaggaaggc 300

<210> 200
<211> 300
<212> DNA
<213> Homo sapiens

<400> 200
gagaggttca cagccaccaa gaagaagttt gcgtgaagtt ctccaggact atggaaacct 60
tacaggatac tgacttagaa cctctgttgg aatgtggctg agtcaaagcc tcctgttgtt 120
gttaggggta tctacagtaa ggagatgata cttcaggaga ttatatttca ctcaatgatc 180
ttttctcatt tcagggctct tctcaaataa gctaaaagaa aaaggatcag gagacaggaa 240
aagtcttccg ttttgagtca tgagtagggc aatagacaag gttctcttca aaaccatcat 300

<210> 201
<211> 300
<212> DNA
<213> Homo sapiens

<400> 201
gcctggaccg ctcattcgga ctcgtcgggc agagcttttg tgctgccttg caccaggaac 60
tcagagaata ctatcgattg ctctctgttt tacattctca gctacaacta gaggatgacc 120
agggtgtgaa tttgggactt gagagtagtt taacacttcg gcgcctcctg gtttggacct 180
atgatcccaa aatacgactg aagacccttg cggccctagt ggaccactgc caaggaagga 240
aaggaggtga gctggcctca gctgtccacg cctacacaaa aacaggagac ccgtacatgc 300

<210> 202
<211> 300
<212> DNA
<213> Homo sapiens

<400> 202
aaatatgcta cttagaaatt aaggcctctg ggttcaattt ttggccccag tgttgacctc 60
tgtgtaagcc tggcaggatg tctcatttct gggtcacctt ttccttgcca acatagtgag 120
gtatgtagac caaatcattg ctaagagcct tctaacttta agactctagg tttagtcagc 180
caaaagcatg tgattttccc agatttccca aactccttgt acctaattga aagtacacaa 240
tgaacttgca agaatttaag catccttaga tgccagtctt cactttgggt attttcctgc 300

<210> 203
<211> 300
<212> DNA
<213> Homo sapiens

<400> 203
aattagtgga gtgatctctg aagacctagg gctatgatct ggagctgctg tggctgaaat 60
ttggggcctc tgaagtggca tggagattga ggtccagaga gcctgagatc ttgagggctg 120
acatttggag agatggggtc gagggttgtc tttgggcctt gactgctttg ggcctttctc 180
actctcattc ccgggatgct ttgccagaat ctctgctgga ttggccgtaa ccctgtcccc 240
gagcgggctc acagggtctg aaggccacgc atgaggcaaa ggtaaagttc tgagccaccc 300

<210> 204
<211> 300
<212> DNA
<213> Homo sapiens

<400> 204
cccggataaa atatcaatta tgaagaggat atctgaatat gcagctgaca ttttctatag 60
tagatatgga ggaggtccaa gactaactgt gaaagccctg tgtaaggaat gtgtagtaga 120
acgttgtcgc atattgcgtc tgaagaacca actaaatgaa gattataaaa ctgttaataa 180
tctgctgaaa gcagcagtaa agggcgatgg attttgggtg gggaagtcct ccttgcggag 240
ttggcgccag ctagctcttg aacagctgga tgagcaagat ggtgatgcag aacaaagcaa 300

<210> 205
<211> 300
<212> DNA
<213> Homo sapiens

<400> 205
cacaagcaac tttgctttag aatctagaat tcctttgcag gcagagaagt ctctacctcc 60
cagtgtttcc tagctaagaa cgtaaatgtg aggagggaaa tgtacttgca gaggtttcat 120
aattatttac ttataaaaat agtcttcata gccgggcgcg gtggctcacg cctgtaatcc 180
cagcactttg ggaggccgag gtgggtggat cacaaggtca ggagttcgag accatcctgg 240
ctaacacagt gaaaccccgt ctctactaaa aatacaaaaa attagccggg cgtggtggca 300

<210> 206
<211> 300
<212> DNA
<213> Homo sapiens

<400> 206
ggccaaagag gtgctacatg cattgaaaga aaaggttact tcactacctg acaaccataa 60
aaatgccctt gctgctaaca tagatgaaat tgtatttaca tcaacaggag acatctccat 120
ttactatgat gagaaaggaa ggaagtttgt taacatcctg atgtgctttt ggtatctaac 180
cagtgccaac atccccagtg aaactttaag aggagccagt gtattccagg ttaagttggg 240
gaatcagaat gtggaaacta aacaacttct tagtgcaagc tatgagtttc agagggagtt 300

<210> 207
<211> 300
<212> DNA
<213> Homo sapiens

<400> 207
gaaatcagta gccccagaga tacctggcaa tagctttttg agaatctgga atacagttag 60
cactcaaaca tttgtagaat gaagggcagt agaattatca tttctcctcc tgtctaataa 120
ctgtgacaag ggagtggccg gtgacttttt ttggtagagc tttttcaaga aaaagtttag 180
tcctacggac agttcggtag ttattctact tcagacactg ggcatgtttc atgttcttca 240
aaaagcccag ttatactttg gttttttgtt gtttgagacg gagttttgct cttattgcct 300

<210> 208

<211> 300
<212> DNA
<213> Homo sapiens

<400> 208
ctgctataaa agtatgattg tcgtcattac agtgattgct gattgagggc ttgctcagca 60
cctttctggg ggctcaacga atgttctgtg atgttgagtt caccacccta taccctggga 120
gagagatagt gtgtttccat ttcacaggtc agcagactcg agcacagaga ggtgaggtaa 180
cacagcctgg caggagtgga gttgggattc aaggcctggt ctgaatggtg gtgctctcac 240
attgcagttg cactccaagg gacccttgca aggtgctaac agatgtgaat gccttttgga 300

<210> 209
<211> 300
<212> DNA
<213> Homo sapiens

<400> 209
catttgtaaa gctgcaggga aagaggttcc acttcccagc aaccccatcc taatggctta 60
tggcagtatc tcaccttcag cttatgtatt agagattttt aaagggatca agtcgagtga 120
gctggaagaa tctctacttg tgctgccttt ctcttatgtc ccagacattc ttaaactctt 180
taacgaattc attcagctgg gctctgatgt tgaacttata tgccggtgcc tcttcttcct 240
ccttaggatt cactttggac agatcactag caatcaaatg cttgtgccag tgatagaaaa 300

<210> 210
<211> 300
<212> DNA
<213> Homo sapiens

<400> 210
ttcatcttct gctccaaagg tggtagcaag aggagtaccc agttaggggt tggagccccc 60
atataacatc ttcctgtcag aagactgatg gatcttttc attccaacca tctccctttc 120
ccccgatgaa tgcaataaaa ctctgtgaca ccagcaacca ttgctcttta gaaatgggtt 180
ttctgatcat atggctgatg tgttatgggc agtatggatg tcttcatttg ttgcttctgt 240
ttttcatctt ttttgtttta ttaataaaaa tttatgtatt tgctcctgtt actataataa 300

<210> 211
<211> 300
<212> DNA
<213> Homo sapiens

<400> 211
gttacatcaa gagataaata gagtgaagca gaactagtgg tgcggaccag ctcgccagca 60
acagaagggt ttgtagtcgg cctggcagtg gacagggagg ttggctagaa ctattacctt 120
aggtccgtga taatatccct gaatccaact tttcagaaag aaataggtaa catatttttc 180
accaggaagc ttcacccaga cactgaacag aatggtctca gtgcactaat ggaggctcag 240
ttaaagggtt gtggtagcac aaggaagaga cattctgact tggaaatttg gagaaggctt 300

<210> 212
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 212
gtccaatagc tgtgaagctg gcagcccttc caagcctggg cagatcctaa aaagacagca 60
ggcagagggc gcagggctta tggcctggcc ggagttggga ggtgaagcag agggcacagg 120
gcttatggcc tggccggagg tgggaggtga agcagagggc gcggggctta tggcctgtct 180
ggaggtggga ggtgaagcnn nnnnnnngag gangttncnt ntgnatnnnn ntnntnanna 240
nanantnnnt ntnnnannnc tt 262

<210> 213
<211> 300
<212> DNA
<213> Homo sapiens

<400> 213
agcactggat gaaaacaagg atggcaaggt caacatcgac gacctcgtca aggtgattga 60
gctggtggac aaagaagatg ttcacatctc caccagccag gtggctgaga ttgtagcaac 120
actggaaaaa gaggagaagg tggaggagaa ggagaaggcc aaagagaagg cagagaagga 180
ggtcgcagag gtgaagagct agaaccactg gcctgggcac ctgtcctcct gctgtgccgt 240
caccctggca agggccgtga gggcgattgc tttgtggtga ttctcagtgg ctcatctaat 300

<210> 214
<211> 300
<212> DNA
<213> Homo sapiens

<400> 214
cttttctgga gggagacacc catctcctgc ccttggacat caggactcca ggttcttcgg 60
cctttggact caggcttgcc acagaggcct cccagggctc tcggccagtc agcctcagaa 120
tgagagttac accactggct tccttggttc aaccaccttc ttacctggac tgagcctcac 180
ttacagcttc tctaggtctc cagcttgcag acagcctatg ggaggacttc tcagcctcca 240
taagtgtgtg ggccagttcg cctaataaat cccctctcct ggccgggcgc ggtagctctc 300

<210> 215
<211> 300
<212> DNA
<213> Homo sapiens

<400> 215
cctgacggag gctttgctgg ctgtggtgat ggggattgag ttgggggcaa gggtccctgc 60
ctagactgtt gacgtcccct gggaaggga cccaaggatg aattggctgt gaaggatcct 120
ccctgagact ggcaagggag gaggctgagc agaaggagtc atcatggagg agcggtgaga 180
tcatggaacc ggactccaag atgacgatct aaagacccgg gagccagaag ccaaggccag 240
gttctgggtg tagggcccag agaagcagaa cagcccagag ccccaggtgc ctggcctggc 300

<210> 216
<211> 272
<212> DNA
<213> Homo sapiens

<400> 216
cttagccaga tcgggactta cagaagtcta ccaatggtat ctggaccttc gtcgatttgg 60
atctgtgcca catggaggtt ttgggatggg atttgaacgc tacctgcagt gcatcttggg 120
tgttgacaat atcaaagatg ttatcccttt cccaaggttt cctcattcat gccttttata 180
gctggaagat tggttaagga aaagcacccc ccatggcaga gacactgcac atgattgtgc 240
atacagcaga atgcatgttt ggattttaga aa 272

<210> 217

<211> 300
<212> DNA
<213> Homo sapiens

<400> 217
gaacttttga agagaaaaat tcgagctaga gggattctta aagccttaag ttacttgaaa 60
tctatgtatt tgcaaccctt tgtctctgga atcatattac actaaactgg aatctcaggc 120
tgaatgagaa taaccaagtg gagtaaaaag aagaaaaccg tttcttgatc accacttaat 180
taacgatgct ctttctccaa aggatcagca cgttcttcct ctgagaactt gaaaatacaa 240
atggacccca tgtttttta agcattacct tttcttagaa gactgccatc atcttttata 300

<210> 218
<211> 300
<212> DNA
<213> Homo sapiens

<400> 218
cccaggcgta aatagagctc cctactccag accacctgcc acccacctcc caagttgaga 60
acacaagctc cagctgggct ggagagtcag gcttggtgca gggtgacttt ggcgaagttt 120
tgtcagatcc ataaagcaaa ctggaatttg agctttcact taccctagta tacgttctta 180
aaaaaaaaaa aagtctatgg ggtataatcg agatggatac ctgggtcttt aaattacgta 240
gggaattttg tatgtttaaa taattgtact gggttccata aagcttatct taaaaacttt 300

<210> 219
<211> 297
<212> DNA
<213> Homo sapiens

<400> 219
ggagatccag atattcttag acctgctgtt tgaacctgtg aggcatttca agaatggaga 60
gtgccattct gcagtcattc aagcagtaga agacttggat ttgtctaaag ttcttccttt 120
aggtcgtcag cacggtatct taaacagcct tgagatagta ttgaaaaaca ttagtcatct 180
gatcagcgca tacctgccga agattttgca gatactgctc tgtatgacag caaccgtatc 240
acacatcctt gaccaacgag aaaagatacg gctgagattt attaatccat tgaaaaa 297

<210> 220
<211> 300
<212> DNA
<213> Homo sapiens

<400> 220
gtggggtagg catgggggtg gacaggggtg acgggctcca cagagacagg atggtggagg 60
gagttgtgtg cagttgaact tgatcctgta gttggttttg acctggtgtg gtccctccat 120
gctgtggaag tgaaatgtga gggaacaggc ctgggggcag tgagggagac aggacaagcc 180
tttcatctaa aaggtggcac agagcttaag gccagggagg aaggtatgaa gaaaaggtga 240
ttgagaacta attaccaagg gaaactggca agacaactgg atgcgtgtaa tccgaatggt 300

<210> 221
<211> 300
<212> DNA
<213> Homo sapiens

<400> 221
taaagctgct gtgatggcca cccttctctt tccaggacgg gagtttaaaa ttacacatca 60
agagatgata aaaggaataa agaaatgtac ttccggaggg tattatagat atgatgatat 120
gttagtggta cccattattg agaatacacc tgaggagaaa gacctcaaag atagaatggc 180

tcatgcaatg aatgaatacc cagactcctg tgcagtactg gtcagacgtc atggagtata 240
tgtgtggggg gaaacatggg agaaggccaa aaccatgtgt gagtgttatg actatttatt 300

<210> 222
<211> 300
<212> DNA
<213> Homo sapiens

<400> 222
gagaggagca ggtgcagtga ttcataccca ctctaaagct gctgtgatgg ccacccttct 60
ctttccagga cgggagttta aaattacaca tcaagagatg ataaaaggaa taaagaaatg 120
tacttccgga gggtattata gatatgatga tatgttagtg gtacccatta ttgagaatac 180
acctgaggag aaagacctca aagatagaat ggctcatgca atgaatgaat acccagactc 240
ctgtgcagta ctggtcagac gtcatggagt atatgtgtgg ggggaaacat gggagaaggc 300

<210> 223
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 223
attggggact gacatcttaa gctctcacct ggctgcagta ggaaaggcca aactgacgac 60
aaaaaaaaaa ttctttataa agatgatatg gtaacatgta tctttgccct gggtctgggt 120
gggtccagtc agtctcagat ttacaagcat ttatgagcct aggtaaaagc tgctaatatt 180
cttttaaaag cnnnnnnnnn nacttgcctg atagaaaact ccttccgggg gggnggattt 240
tataatanta cgtgngnnct naacanagtn a 271

<210> 224
<211> 300
<212> DNA
<213> Homo sapiens

<400> 224
aagtctgttg ccattccatc tctgtgttaa cacttcatat ttttatgaaa ttcagataat 60
ttgtgagagg ctggcatgga tctaaggatt tattattttt attctagtcc atcagttcag 120
tcgcagtttt tatactagga ctttaggatg tacataaatg tgtgactgtt tgtcttgatt 180
aaaagtgcac tttggcctgg gcatggtggc tcatgcctat aatcccagca ctttgggagg 240
ccaaggcggg tggctcactt gaggctagga gttcaagact agcgtggcca acatgaggaa 300

<210> 225
<211> 300
<212> DNA
<213> Homo sapiens

<400> 225
gctcagcagg cagacgaatg aggaataaag gtcagagaag gtcagagctg agtgacgttt 60
ggaatccacc ccgtttattg tagaactggg ggttcagagg gcaggtgcct cagagttgag 120
gccacacagt gaggtctggt gggtgaaagg acccaggaac gaggcgttca ggaaagcagg 180
ttgtcagagc tatgtggagt ctgtgggtgg caggggcagc cgctccagcc tttgaagact 240
ttgaaagcca gagattcctg gcgcaggctt ggacttcctg ggagctcctc caagtaccca 300

<210> 226
<211> 300
<212> DNA
<213> Homo sapiens

<400> 226
gtggtttcct gcacatcttt ggagtagtta tgacttctca gtttttcccc ccttaaactg 60
cattgcctat tctttttttcc tgacatgcta tcaggtatca gtgtgttgaa tacatactgc 120
ttgtgtatca gacttacgtt actgtcatca ccattaaaag aattgcagct ttgtgcccca 180
tgaccttcag ctcagttgtt gactgtcatt catgaatgcc taaagcatac tgacaccagg 240
tataagtact tgaagatcaa gaactagtca ataaaacatg agcaacataa tggtaactat 300

<210> 227
<211> 300
<212> DNA
<213> Homo sapiens

<400> 227
acagggtcaa aattttcatt ctgcataagg taggtttagt ctttttcaaa acattctagt 60
aggcaagtct gtagctgaat cttggaagaa aggcaaccat agtaatattt ttgagttcct 120
actgtttatt ttttcaataa aaactcaggt tctcaggtta gcagatcatg gtcttaggaa 180
ggtagctgta gaaccaaaat ataaattcct aagcttctac caattgggtc ttactgaaat 240
ggcaattgag agagaagtaa atctcttggt tttcaccata gttactttat gtttcctttc 300

<210> 228
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 228
gacttgtgtt caggcaggtt ttcnggacat gnacataaaa naacagattc aggaacagca 60
ccaggctgcc attattattc agaagcattg taaagccttt aaaataagga agcattatct 120
ccacattaga gcaacagtag tttctattca aagaagatac agaaaactaa ctgcagtgcg 180
tacccaagca gttatttgta tacagtctta ttacagaggc tttaaagtac gaaaggatat 240
tcaaaatatg caccgggctg ccacactaat tcagtcattc tatcgaatgc acagggccaa 300

<210> 229
<211> 300
<212> DNA
<213> Homo sapiens

<400> 229
ggtgccatgg agttcaccat ctgcaagtca gatatcgtca caagagatga gttcctcaga 60
aggcagaaga cggagaccat catctactcc cgagagaaga accccaacgc gttcgaatgc 120
atcgcccctg ccaacattga agctgtggcc gccaagaaca agcactgcct gctggaggct 180
gggatcggct gcacaagaga cttgatcaag tccaacatct accccatcgt gctcttcatc 240
cgggtgtgtg agaagaacat caagaggttc agaaagctgc tgccccggcc tgagacggag 300

<210> 230
<211> 300
<212> DNA

<213> Homo sapiens

<400> 230
aatcccacaa agcctagcac caaacttctt tttttcttcc tttaattaga tcataaataa 60
atgatcctgg ggaaaaagca tctgtcaaat aggaaacatc acaaaactga gcactcttct 120
gtgcactagc catagctggt gacaaacaga tggttgctca gggacaaggt gccttccaat 180
ggaaatgcga agtagttgct atagcaagaa ttgggaactg ggatataagt cataatatta 240
attatgctgt tatgtaaatg attggtttgt aacattcctt aagtgaaatt tgtgtagaac 300

<210> 231
<211> 300
<212> DNA
<213> Homo sapiens

<400> 231
cacaaggaga agaaagttaa ttaacattga aagatgagaa gacatcttgg aagaacttga 60
attgggcctt ggaagaagaa cagccattca aatagataga attgtggtag caaaggcata 120
gaggtaggaa agtatagatc tccagggaca gtagtcatgg ggttggggca ctgttggaat 180
ttaaggttgg aaggatatat tggagcccct tgaatacggt aacaaggcac accttgggca 240
gtggagagtt atcagagtgt ttgaaaagga gggttattga gtaaataaat agactggtac 300

<210> 232
<211> 300
<212> DNA
<213> Homo sapiens

<400> 232
gttaaactgt cagtattgga tcttagaagt aaatgattat taggactgta atagtaatta 60
ttaggactgt aaaagtaaag gattattatc tgcattagat atcattatat ctaatgatat 120
agagactgca gacataacta cagggctctt tttcttaaat cagaaaatcc agattcaata 180
gaaatagggt aaagtgatag gaggacaaat agccttccat ccagtggtta tcaactgacg 240
actacaagtc ggcctcactt gctttaatta ttctattcta tcctttgatg ctgcttgaag 300

<210> 233
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

<400> 233
ggcagctaga gtcaggaaaa tgaccctcat atgcttttaa tctttgtttc agttgtctgt 60
cagggttgaa ttaagaagct actggtttat tcccaattgt tgatgccttt aggtatgttg 120
gaatcttttt ttttgcctag gaggggccag ttgaaaatct gtgactcaag aggcagtgaa 180
cagaatactg ttttctgggg aaaaattggt tggctacttg atgttaattn nnnnncagta 240
acagganaag gntgtgtctn ngctattntg nng 273

<210> 234
<211> 300
<212> DNA
<213> Homo sapiens

<400> 234

ccacctctca gacgtgagta aggaattgcc ctccttgtct cagtgggaca aggcttgaag 60
ctaattggag gaggtggaga gaaatttaga gggggtcctg gttagggtac ccataaaaat 120
agagatgctt gggatgttct gagcaaagga gccagaatgc agagaacagg accacagccc 180
tagtagctag gggggggagtt tgagatgcag cctgggggtg ccctgcctaa tttcagagac 240
ttaagggcca gtgtcagtga cagggtcagc aggggtgggt gagaatctgc ttaaggctag 300

<210> 235
<211> 300
<212> DNA
<213> Homo sapiens

<400> 235
ccttccacgg ttatttcaca gatatggaga gctggaagca gggagtgagt ctctgagtgt 60
tggaattgta agggatcaga agcagggatc agaagcagtg gtgaagttca tccaccataa 120
aacacacagg tgactttgcc ttgaatctgc aggactgaag ccaactcttg ggcacagacc 180
cttagtccct tccttggcca ctctaagtca gatagtccag agccaggccc tttgggatgt 240
gacaccgaga taaatcagag aaaagctgtg aagcttgggg aacagaggga cttttggtga 300

<210> 236
<211> 300
<212> DNA
<213> Homo sapiens

<400> 236
cagtgagatt cctcttctgg tattaccttt gcttcattgc tgaatcttct ccaatatcat 60
cttctaaaaa gagcctttta aaatcacctt ttctattatg ccctactcat ttccagtccc 120
tgaattgccc attccccact tcatagcact tattgctatc tgaaattaca ctaaatgtca 180
ccttcatgat ggtaggcaat ttattgcctt tgtcactgtt atgtctagag aacaagcagc 240
tggctcatag taggcactca acaaatattt gttcaatgaa gaatttataa atgaatgcct 300

<210> 237
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 237
ctgggctgca tctggccctg gctggaggcc ttgctttgag gggctgagac cctcttcccc 60
caggccctcc ccagccgacg acagccaccg gagaggagat cggaacacga ttgnnnnnnn 120
tgcagggcgc tgggcggaac naatccncaa ggactctgan atnnnccctt gnnantnncn 180
angngannna nnananannn ntatacatan anccnnanac ccnaannaca nacanngngc 240
anancnannn nancannnnn aannagnnna nnna 274

<210> 238
<211> 300
<212> DNA
<213> Homo sapiens

<400> 238
tgtcaccttc tcccacagcc atttccaccc atcgttgtct agaatctctt tcattagcac 60
attccaaccc ctctgccact tggtttagaa atgagctccc tggctcagtg ggcctttcag 120
aatctggaac cagacggagg tggagttaag aagataggac agaacaggca ggcccaggtg 180

ctatggttcc actggggaga gaccatttaa ttctccagat gctttactcc ctgattgtct 240
tttagccatt attcttttcg ttttaagaga catggtctca ctctgtcacc caggctggaa 300

<210> 239
<211> 300
<212> DNA
<213> Homo sapiens

<400> 239
caggattgtt cattttgtct tttgtttgtt ttggggaaca gggtcaaaat tttcattctg 60
cataaggtag gtttagtctt tttcaaaaca ttctagtagg caagtctgta gctgaatctt 120
ggaagaaagg caaccatagt aatatttttg agttcctact gtttattttt tcaataaaaa 180
ctcaggttct caggttagca gatcatggtc ttaggaaggt agctgtagaa ccaaaatata 240
aattcctaag cttctaccaa ttgggtctta ctgaaatggc aattgagaga gaagtaaatc 300

<210> 240
<211> 300
<212> DNA
<213> Homo sapiens

<400> 240
gcactgcgtc aagccactcc tggagaagaa tgatgtggag aaagtggtgg tggtgatttt 60
ggataaagag caccgcccag tggagaaatt cgtctttgag atcacccagc ctccactgct 120
gtccatcagc tcagactcgc tgttgtctca tgtggagcag ctgctccggg ccttcatcct 180
gaagatcagc gtgtgcgatg ccgtcctgga ccacaacccc ccaggctgta ccttcacagt 240
cctggtgcac acgagagaag ccgccactcg caacatggag aagatccagg tcatcaagga 300

<210> 241
<211> 300
<212> DNA
<213> Homo sapiens

<400> 241
gggatgaata tttaaggtga agcaaagtag ctgtggctac ttggggccaa aagcttccca 60
gatgctcctg ctctaagcac atgatgtttt ttggggaaag tggtagcagg tagagggtgg 120
cagaaagtgt gagaagcact tgttgtaggt gacccagaca tgcctcttga attgaattcg 180
gtgatctgct tcttcagctg ctttcttgtc cctgcccagc aggatgccag gaaacacata 240
gccctgtaga aaatcactgg agaagaggat gattggagtt cttcatttct taaaaaacag 300

<210> 242
<211> 300
<212> DNA
<213> Homo sapiens

<400> 242
aaatgaagtc cttgagccag aaaaggatac cagccccact gttaagtgat gattgtgtgc 60
taaagcagcc taagagttct atcctaacac aagagcctag aaagtaactt cttaggcagt 120
gtccaaagaa tgccagtagt ccttggggac ttttcagagg tgcttggctt gaatcaattt 180
ctagatccca aagcagagtc ttcatgcaca ttttgcggct gtagtgtaca gcaaatggct 240
cttggctagg tttagaatgc tgcttttacc attctctgta cctgacccag tttgagtctc 300

<210> 243
<211> 300
<212> DNA
<213> Homo sapiens

<400> 243
agaacgttct caggttgacc agctgctgaa tatttcttta agggaggaag aacttagtaa 60
gtcattgcag tgcatggata acaatcttct gcaagcccgt gcagcccttc agacagctta 120
tgtggaagtt cagaggctac ttatgctcaa gcagcagata actatggaga tgagtgcact 180
gaggacccat agaatacaga ttctacaggg attacaagaa acatatgaac cttctgagca 240
cccaggtttg gcatagaaat ggtacccctt gttcaaaatg aacaagaagc cttagatttg 300

<210> 244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 244
ctccagtata acctcatctg tatccgcagc aaccgtttac caataaggtc acattctgag 60
gtactagagg ttgggacttc aacatcggaa tttgaaaggg acagcattca gcccatgact 120
ccagataaac gtgaggtatg ctatatcatt cctaatttac agatgagtca atacaaactt 180
gagtgagctt gctcacaatt ccatcaaagg cagggttcag acccaagttt cagcatttag 240
ggcaggtgtc ctctgcatgg aagaaccata ctcaatagcc gtaaacgctg acaaattccc 300

<210> 245
<211> 300
<212> DNA
<213> Homo sapiens

<400> 245
gctgtctggg tcctacattc actactttca ctgcctaaga atcctggacc ttctcaaagg 60
cacagaggcc tccacgaaga atatttttgg ccgatactct tcacagcgga tgaaggattg 120
gcaggagatt atagctctgt atgagaagga caacacctac ttagtggaac tctctagcct 180
cctggttcgg aatgtcaact atgagatccc ctcactgaag aagcagattg ccaagtgcca 240
gcagctgcag caagaataca gccgcaagga ggaggagtgc caggcagggg ctgccgagat 300

<210> 246
<211> 300
<212> DNA
<213> Homo sapiens

<400> 246
tggctgctca ccactccatt ggcctgcctg cgcgccaatt cccttcggtg ggccccggtt 60
ggctgcaggc tgaggtctat tccactgacc acccctctcg gtgccgccca cagtgatcct 120
ggtgcacgcc tcgttgcgcc tgcgcaacct taagaacaag attgagaaca agatcgagag 180
cattggtctc aagcggacgc caatgggcct gctactagag gcactgggac aagagcagga 240
ggctggatcc taggcccctg ggatctgtac ccaggacctg gagaatacca ccccaccccc 300

<210> 247
<211> 300
<212> DNA
<213> Homo sapiens

<400> 247
agaaaaacaa cagagagaaa aagaatacct gagatatgta gaagctttac gagcccaaat 60
ccaggagaaa atgcagctgt ataatattac tttacctcca ctatgctgtt gtggtcctga 120
tttttgggat gctcatcctg atacctgtgc caacaactgt attttctata aaaaccacag 180
agcatatact cgggcactac attcattcat caattcctgt gatgtccctg ggggtaattc 240
aactcttcga gtcgcaattc ataattttgc ttctgcacac aggcggactt tgaaaaatct 300

<210> 248

<211> 300
<212> DNA
<213> Homo sapiens

<400> 248
ccaccttggc ctctcaaagt gctgggatta caagcgtgag ccactgtgcc cggccagaag 60
gagtgttttg agaatggcta agagaagata ggttgaatag ctatgcctac atgtcactaa 120
ttaacatctc agagatctct gctacaggtt gtcgtcctca ttttgtctaa tatttttcca 180
atggcatgag tataggaaga taaacgggga atgttttgaa gtaataaaaa aattccatcc 240
ataaagaaga acaacatgta ttaagctttg tgcaccaaac aacacaacag gaagacacat 300

<210> 249
<211> 300
<212> DNA
<213> Homo sapiens

<400> 249
tgttactggt gcccatatag atgtggataa acaaaaagat aagaatggcg agagaatgat 60
cacaataagg ggtggcacag aatcagcaag atatgcagtt caactaatca atgcactcat 120
tcaagatcct gctaaggaac tggaagactt gattcctaaa aatcatataa gaacacctgc 180
cagcaccaaa tcaattcatg ctaacttctc atctggagta ggtaccacag cagcttccag 240
taaaaatgca tttcctttgg gtgctccaac tcttgtaact tcacaggcaa caacgttatc 300

<210> 250
<211> 300
<212> DNA
<213> Homo sapiens

<400> 250
ggggccgctg ctcaagttcc agatttgtgt ttcctgaggt tataggcggg tgtttgagga 60
gtacatgcgg gttattagcc agcggtaccc agacatccgc attgaaggag agaattacct 120
ccctcaacca atatatagac acatagcatc tttcctgtca gtcttcaaac tagtattaat 180
aggcttaata attgttggca aggatccttt tgctttcttt ggcatgcaag ctcctagcat 240
ctggcagtgg ggccaagaaa ataaggttta tgcatgtatg atggttttct tcttgagcaa 300

<210> 251
<211> 300
<212> DNA
<213> Homo sapiens

<400> 251
tgaagaggag atcggtgacc tgggctcctt atgtgcctga aagagtttga gtttcctgtt 60
aactccaaat caacagtatt ttcaacaaga aatgtgcaat tgaaatcaag tgctgtttaa 120
gtgcagctag gatttccaca ggaagacact tgcagtgaac agagttatgg agcagcaaaa 180
acacagatct atttggaaaa agagaaaaca tatgcgttgt attttgcttc aattataaaa 240
taccatcctc tcaaaggtgg ttctaaatta caaaggactt tgatttctag gtagattctg 300

<210> 252
<211> 300
<212> DNA
<213> Homo sapiens

<400> 252
gaacaaagaa ggaatgtctt cctcatgttt gggtctatag aagacgttaa agaaaacttc 60
cagaaagtgg gtttgaggca tgagccacca cgcctggcca aaggatttaa tgaattaatg 120
gatgtacagt gctggggctg ttattctagg gcctgcattg agactcacat tttgccatca 180

aaagcctttt aagaggtgga ggttgcggtg agctgacatg gtgccactgc actccggcct 240
gagtgacaga gtgagactct gtctcacaaa aaaaataatg ccctttaaat aatgaataat 300

<210> 253
<211> 300
<212> DNA
<213> Homo sapiens

<400> 253
gaacaaagaa ggaatgtctt cctcatgttt gggtctatag aagacgttaa agaaaacttc 60
aagaaagtgg gtttgaggca tgagccacca cgcctggcca aaggatttaa tgaattaatg 120
gatgtacagt gctggggctg ttattctagg gcctgcattg agactcacat tttgccatca 180
aaagcctttt aagaggtgga ggttgcggtg agctgacatg gtgccactgc actccggcct 240
gagtgacaga gtgagactct gtctcacaaa aaaaataatg ccctttaaat aatgaataat 300

<210> 254
<211> 300
<212> DNA
<213> Homo sapiens

<400> 254
gttacccttc agataaagaa gggaagaagc ctaaaggaca gtcaaagaag cagcccagtg 60
gaaccacaaa aaggccaatt tcagatgatg actgtccaag tgcctccaaa gtgtacaaag 120
catcagattc agcagaagca attgaggctt ttcaactaac tcctcaacag caacatctca 180
tcagagaaga ttgtcaaaac cagaagctgt gggatgaagt gctttcacat cttgtggaag 240
gaccaaattt tctgaaaaaa ttggaacaat cttttatgtg cgtttgctgt caggagctag 300

<210> 255
<211> 300
<212> DNA
<213> Homo sapiens

<400> 255
gggctcttgt cattttctcg ctctgtggca ctgttcagag gatatcacgg gccccttgat 60
ttgtatccag aatttttaccg aattgctaca gacccaacca tccacactgt cccagaaggc 120
agacctgtga atgtctgagt gggaaaagag tggtatcgat ttcccagcag cttccttctt 180
cctgacaatt ggcagcttca gttcattcca tcagagttca gaggtcagtt accaaaacct 240
tttgcagaag gacctctggc cacccggatt gttcctactg acatgaatga ccagaatcta 300

<210> 256
<211> 300
<212> DNA
<213> Homo sapiens

<400> 256
gctttggaaa ttattagata tatcctattc ccttcctccc attttttttcc tgctagtgca 60
aaaggtagat gagtaggaag attaggactc ctgagttgcc catgatttca tctaattttt 120
ggattcagaa tgtattttat gaataatatg cagagatgca tattaggaat gtgaagccag 180
aatgggtcag ttgtagctgc tgcaaagttc tgtagctgat ggtcatttaa ttgcatgggg 240
gttattttat ctttcatgat tgtggtgcac ctgatgctgg cggggatttg tgtgtttttg 300

<210> 257
<211> 300
<212> DNA
<213> Homo sapiens

<400> 257
gccaggtgta ttaggatctt ttagatgtag tttaatgaag agtttatggc ttaaagtgag 60
acagtattac ttcagagctc agcttctctc cttggatttt ctctcagcaa atgggagaag 120
taacgtctgc ccttcggagt tgttacaagg agacaagata aacacagggt ccaagtgctt 180
ggtaaatggt aagtgctgtt attagagtca ggtgttctag tcacaggtcc tcaacagata 240
cagctttggc agtaggaggt gcagctgacc tgagctgttt ttaaattaaa attaaagcca 300

<210> 258
<211> 300
<212> DNA
<213> Homo sapiens

<400> 258
atttgatgct acaaagagct ttgttgaatc ttcagaaaac aaaatctgaa gggcagagcg 60
aaggaatgct ggcattttgg aaacccttt gaggcttatg ttgtcatgtt cataattcag 120
ccgatagaga aaaaaccgag aaactgtaga ataggctatc caacttccac atggggagat 180
acagctacag ataatgttct caggaccctt tgtctttagg tgcagtaaat gatctgcatt 240
tttagagagt ggaagagtat ccccattctt gcctgttgca actgtggatc ccagtcgcca 300

<210> 259
<211> 291
<212> DNA
<213> Homo sapiens

<400> 259
ctacacagtt cccattcatt accttaacat tgtactgaga gagacccagg tctgacctgt 60
atagcagttt gagtcgaggg gctgtcaaag gggttgccaa agtcatctaa aggacttggc 120
aacagaagta gcattatgac ttggatccac ttctttatag accaatattg gcagccatga 180
aggctggctt gtcctgggtg cggaattcag ttttagtggc tgaatgcaca gacagcagga 240
agagagaata ggggacaatg aacaacagag agagaagaaa tgcagtgtgt a 291

<210> 260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 260
tgtacttatt cttgattgcc acgtctcatt tggattcccc agactctgat tagaggcact 60
gccaccagga gagattttat ctaaccaata gtacttccag gaagatcctc acccttgtac 120
tttcaagaag cacttgtaat taatgttcag cttcctgaac actgagtggt acttgaaaat 180
ctctgtggtt tatagcctta caaaagctac tctggaggct gaggcaggag aatcgcttga 240
acctgggagg cagaggttgc agtgagccga gatcacgccg ttgcactcca gcctgggcga 300

<210> 261
<211> 300
<212> DNA
<213> Homo sapiens

<400> 261
ccggacgcag gccctcgggc aggagcatct ggcagagtgg ggggcgtggc aggcaccctc 60
ctttgcaggg cgaggtgggg cctctgcagc catcctggac aggccggggt ggcggcagct 120
ttgcccacgt ggaagcgggg tgggtctcac ttgcgtggtg gcccctggcc ccatcttgcc 180
tgctgcggcc tggggagcag gcgctgggtg gtggttctgc ctgcttgctg ctcgttcccc 240
gggcatgcgt gggcagcggg gggcatgcgt gggcagcagg gggccgtggg cagcgggggc 300

<210> 262

<211> 300
<212> DNA
<213> Homo sapiens

<400> 262
gcatcctctg atggcactgt aaagatctgg aatatgaaga ccacagaatg ttcaaatacc 60
tttaaatccc tgggcagcac cgcagggaca gatattaccg tcaacagtgt gattctactt 120
cctaaaaacc ctgagcactt tgtggtgtgc aacagatcaa acacggtggt catcatgaac 180
atgcaggggc agattgtcag aagcttcagt tctggtaaaa gagaaggtgg ggactttgtt 240
tgctgtgccc tctctccccg tggtgaatgg atctactgtg taggggagga ctttgtgctc 300

<210> 263
<211> 300
<212> DNA
<213> Homo sapiens

<400> 263
atttctactt gagctaaggt agtattgtgt atcctctttc cttcttaggt atccataatc 60
cacaaagcat atttaaaagg ctcttggcac gggcagcatt ggttgagcag gtaggtttgg 120
ctaggggggaa atgtttaact tgttctgaaa gaaaaactta tgtctgtagg gtccaagaaa 180
cagctattcc agagtcagtg tcagctgagt ctggaacata tgaagtgagg tttacttcta 240
agaacacaag tgactgcaca ctaattttgt caaggcatct tttcactact ttgctgtaga 300

<210> 264
<211> 300
<212> DNA
<213> Homo sapiens

<400> 264
gctcttgggt tttatgtccg ctgcttcttg gttgccgaga cagagagatg gtggtctcgg 60
gccagcccct cctctccccg ccttctggga ggaggaggtc acacgctgat gggcactgga 120
gaggccagaa gagactcaga ggagcgggct gccttccgcc tggggctccc tgtgacctct 180
cagtcccctg gcccggccag ccaccgtccc cagcacccaa gcatgcaatt gcctgtcccc 240
cccggccagc ctccccccact tgatgtttgt gttttgtttg gggggatatt tttcataatt 300

<210> 265
<211> 300
<212> DNA
<213> Homo sapiens

<400> 265
gacttctaaa tatatcttgg atataatagg tgataagttc tgtcaattag taacatctga 60
aaaaacagct ttgtcctggg tgaaaaagga tgccaaaatt gcctggaaaa gagcagtgag 120
aggagtccgg gagatgtgtg atgcatgtga agcaacattg tttaacattc actgggtctg 180
ccaaaaatgt ggatttgtgg tctgcttaga ttgttacaag gcaaaggaaa ggaagagttc 240
tagagataaa gaactatatg cttggatgaa gtgtgtgaag ggacagcctc atgatcacaa 300

<210> 266
<211> 300
<212> DNA
<213> Homo sapiens

<400> 266
gtcacctcca ctagaggggg ataaaaagga taataggaaa tcagaatatt ttgatttgta 60
gttcaactgt tgatcaatta tctttgagac ttttaacatt catgactaag gaggattaat 120
aattaacatg agctgtagaa ttaaggtttg tatggcatga taagtataaa ccagttttgg 180

gaccgctata attctaaaaa agcaggtaga ctagatgatt agttgtacac ttattactgc 240
taattcttga ttgtagaaca aattttccta tgaaaaccat gttgtgtatt ttatatctct 300

<210> 267
<211> 300
<212> DNA
<213> Homo sapiens

<400> 267
gatctctata ctagtgaaca gtgccagttc cacactttgg acttagaact gttctctagt 60
tattgtaaca cagaatactg tcaatcccta atttacttaa tgttacttat tggaagtggg 120
gctgatgaaa tacgcacagg agggaaatct actgtgttta ggcacaggca gccccagtgt 180
ataaggagat catattccaa aaggttgtca gttggttgtt tgcaacctgg aatgtatttt 240
cctttagaga ccaggttatc catggtggtt aggcccctag agcagctgga aaagatgatc 300

<210> 268
<211> 276
<212> DNA
<213> Homo sapiens

<400> 268
gaggccactc tgctggccac ctccagtggg tgctgaccac aggatgggct ttgggtacac 60
tcattttcac cctgattctt gcccccactt tcataaaaga aacttcaaaa tgctgacgct 120
ttggagagta agaaaatcaa tcttggctgg gcacggtggc tcctgcctgt gatcctagca 180
ctttgggagg ctgaagctga aggatcactt gagctcagga gttggagacc aaccctggca 240
acataacaag accctgtctc tacaaaaaaa aaaaaa 276

<210> 269
<211> 300
<212> DNA
<213> Homo sapiens

<400> 269
gctgccacca cccccgggcc cagcctgtct gaaagttcag ggtttaggcc gagaaacccg 60
gtggggaggg gtggggagcc ggagctctgt ggcggggctg gagggctggg gtgcacttta 120
gtttggggcg ggacgggagc cgccgttgtg actggcgtgg tctggctgct gctcccgaac 180
ggaggggtcg gggttggctt gctgggccct cagagcccag tgggtggctc tgactcggct 240
ccctactccc tgcacccagc tgggcgcagc cttggggcct gcggtctgaa tgtatccctc 300

<210> 270
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 270
gactcatntg cagtgttgtc agaaacaaat aataaagccc caaaagataa actagttgaa 60
aaaactggca aaatctgtat acgtggaaat ttaccaggac agagactgaa gaataaagaa 120
aatgagtttc attgccagat catgaaatcc aaagaaactt taaagaagat gagttgtgta 180
aatggaactg aagggaggga agagctgcct tcgcctggta caaagcacac atgtgtatac 240
acatgggtca agcagtgctg gtctgtggct gcctgtccag aggaatggaa atatcctttg 300

<210> 271
<211> 300
<212> DNA
<213> Homo sapiens

<400> 271
agtggctgga taaaaggatg tgtgggaaag aactgagttg aaattaggag ttagaatttt 60
attctttggt actaaggaat cattgaagat tttaaaatta gggctgacat aatcagattt 120
gagtttggga acctatagtt tgggactgga ggaagacagg tgccagacac cagttaaaaa 180
gctgttattt tctaagcagt agacaaaggt ttacactgac aatagctgtg gagatagaga 240
aaagctgcga gatttcagag ttttccaagg tgtaaacaac taaattttgt gatcaaaatg 300

<210> 272
<211> 300
<212> DNA
<213> Homo sapiens

<400> 272
ggaacctact agatggacag gctgaggtgt ttggcagtga tgatgaccac attcagtttg 60
tgcagaaaaa gccaccacgt gagaatggcc ataagcagat aagtagcagt tcaactggat 120
gtctctcttc tccaaatgct acagtacaaa gccctaagca tgagtggaaa atcgttgctt 180
cagaaaagac ttcaaataac acttacttgt gcctggctgt gctggatggt atattctgtg 240
tcatttttct tcatgggaga aacagcccac agagctcacc aacaagtact ccaaaactaa 300

<210> 273
<211> 300
<212> DNA
<213> Homo sapiens

<400> 273
ctggttttga ttggtcagat tctttttttca ctagcggcgg tttttctttt atgtcttgtt 60
ataaagaagt atctcattgg accctattat cggaagctgc acatggaaag caaggggaac 120
aaagaaatcc tgatcttggg aatatctgcc tttatcttct taatgttaac ggtcacggag 180
ctgctggacg tctccatgga gctgggctgt ttcctggctg gagcgctcgt ctcctctcag 240
ggccccgtgg tcaccgagga gatcgccacc tccatcgaac ccatccgcga cttcctggcc 300

<210> 274
<211> 300
<212> DNA
<213> Homo sapiens

<400> 274
ccacgactca tttgtttcat tcacattcct cacgtgcaac aacataatta tattttaaga 60
aaatgtaact ttgttacatc aaaatatgtt gtctagtaaa aagttgatat tcagtagaac 120
aaggatcatg taaataaaca tctatttcac atgtacccaa aagcatttaa aaagcagaat 180
ccagggccca gagcatgagc cagggaggag gatgtttttc ttcttttctc tatttttccc 240
taaattgtgc aaacataggt gagtctctta acctttctgt gcctcagttt ttctacctct 300

<210> 275
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 275
ccacgactca tttgtttcat tcacattcct cacgtgcaac aacataatta tattttaaga 60
aaatgtggct ttgngcatca aaatatgttg tctagtaaaa agttgatatt cagtagaaca 120
aggatcatgt aaataaacat ctatttcaca tgtacccaaa agcatttaaa aagcagaatc 180
cagggcccag agcatgagcc agggaggagg atgtttttct tcttttctct atttttccct 240
aaattgtgca aacataggtg agtctcttaa cctttctgtg cctcagtttt tctacctcta 300

<210> 276
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 276
gtggcaactt gatgaaacag ccaaatgcac cagggcaggt cactttccca ttacactgat 60
tccacaatta aaaaaaaaaa aagaaaaaaa actcattgaa atagctacag ttctataggt 120
taatttaaag cctccttttt ctactcattt ttgaaaccaa aattacattt tactatttta 180
cataaccagt gaaaagacgt tgaaagccta cagnnnnnnn tntttggngc tctgaaaatg 240
ntnangnnnn ntntntnnnn ttt 263

<210> 277
<211> 300
<212> DNA
<213> Homo sapiens

<400> 277
tcactacact taaaaataca agggacatgt taggcaatca gatgctttgt agaaactgag 60
ctatttgtcg gcctggcgcg gtggcccaca cctgtaatcc cagcactttg ggaggccgag 120
gcagtggctc acgaagtcaa gagttcaaga gcaacctggc caagatggtg aaaccctgtc 180
tctactaaaa atacaaaaat tagctgagca tggtggtggg tgcctgaggc tgaagcagag 240
aattgcttga atttcaggag gcggaggtta ccgtgagcca agatcgcgtc acagccctcc 300

<210> 278
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 278
cctgtctcta ctaaaaataa aaaaatgacc tgggcatggt ggtgggcgcc tgtagtccca 60
gctactcggg gcgctgaggc aggagaatcg ctcgaaccca ggaggtggag gttgcagtga 120
gccgaggttg cacaattgca ctccagcctg gcgacagagc gagactcgtc tcaaaaaaaa 180
aannnnnnnn nngggnaanc ntnnnantgg ggnnnccact tgccntttgc cnggnnnncc 240
cangttntnc ctngttttcc nggnatttta ncccctttcc atttttgana aaagac 296

<210> 279

<211> 300
<212> DNA
<213> Homo sapiens

<400> 279
ctggctcaga tgtgggatgt gtatggaaga atataaatga tggtgtggat gtcagggtga 60
gggaggagac aaaaccacga tgacccctag ctttgtggcc tgaactgtgg gtggctgagg 120
ggatcgttaa ttgaatgggg cagactgagg cttgtgagga agatcagagt ctggttcttg 180
acatgagatg cccttcagac atctcttcac tcaggtccaa ctagggatac agaaacactg 240
aatatttcaa cagcagaaat tgaatggggg gattgatagc gctggcgagg gaagcagctg 300

<210> 280
<211> 300
<212> DNA
<213> Homo sapiens

<400> 280
gaaatataga gagatgtggg atttgaatgc ccatgaaaga cattttattt tacttgaata 60
tattcttgct tcactttacc ctccataata tgttgtacat tagtgctgat caagtttaca 120
gagttacatt ttgctttcct aaccattcag tcaggaatta aaatatggca ttgtataaca 180
actgggaaga agctcatagt ggatataaat tagagtagat aatgggtcac cttgatagcc 240
tctgtttaca ttacttgtat atgggcaaaa taattattac ctatacgtgt atttaagctt 300

<210> 281
<211> 300
<212> DNA
<213> Homo sapiens

<400> 281
atctttaggc tccgtgtgtg aaatgcagca agcctgcccc cagcagcctg tgggctaatc 60
ctgagctgtt ccttcgttta ggtacacagg tgaccctgaa gttcccactc ggccctctgt 120
tttctgagtc ctgtctcctc tgtagcacag tggggattgt tctgaaccgt ggcacgcctt 180
cttggcgagg caggctctct tatggaacca tagtctgtta cctcatttct tccaactgct 240
ctgtccccta aatgtgtgtt cccaggtgca gtgcagcaag ggtgctcgct gttggccttt 300

<210> 282
<211> 261
<212> DNA
<213> Homo sapiens

<400> 282
cctgtttcca ggagatatgt gtgtccatca gcagtgataa aaatcttggg caggtgttat 60
tgcactgttt gtatgattca gacccaccta ctctgctgga aacaagcagg ttgttgctta 120
cttgcctttc ccaggcagaa gtggccagtg tttgggttga aaggatccag gaacatccag 180
ctatttatga tagcatttgc ttcattatgt caagttcaac aaatgttgac ttgctggtga 240
aggtgggaga ggtgtgggag g 261

<210> 283
<211> 300
<212> DNA
<213> Homo sapiens

<400> 283
gaaaggtggc gcgcttctca cggctgagtt gctgcgcctg cagacggaag ctccccacag 60
gcagagctgc ttggatgtgt gagtcatgaa gccagagaag ccccgctcca tgagcagtga 120
ctccccaggc cctgtgacct ccctcctgtc ttgcagctcc tcctggcacc agtccccagg 180

gctctcctgt tggtagttcc tgcttttctt cttggaaatt cctcgtggac ctcgagatct 240
ttaccctaaa atagttctgt tgaatttcac cctggcaatg taaattgata gcttatcttc 300

<210> 284
<211> 300
<212> DNA
<213> Homo sapiens

<400> 284
gaagacacca gtggtggaat cgagtgtttg gccacagttc gggacctatg gtagaaaaat 60
actcagtagc tacccagatt gtaatgggtg gcgttactgg ctggtgtgca ggatttctgt 120
tccagaaagt tggaaaactt gcagcaactg cagtaggtgg tggctttctt cttcttcaga 180
ttgctagtca tagtggctat gtgcagattg actggaagag agttgaaaaa gatgtaaata 240
aagcaaaaag acagattaag aaacgagcga acaaagcagc acctgaaatc aacaatttaa 300

<210> 285
<211> 300
<212> DNA
<213> Homo sapiens

<400> 285
atgttaaatc atgtcttaaa catctgtgaa aaagatggta cttttgacaa catttatctg 60
catgtccaga tcagcaatga gtcggcaatt gacttctaca ggaagtttgg ctttgagatt 120
attgagacaa agaagaacta ctataagagg atagagcccg cagatgctca tgtgctgcag 180
aaaaacctca aagttccttc tggtcagaat gcagatgtgc aaaagacaga caactgaaca 240
aattacaaat gaactttctt gcacttgctt gtcgccaaat aaaagagagg cccattgatt 300

<210> 286
<211> 300
<212> DNA
<213> Homo sapiens

<400> 286
ctaaaatgtt aaatcatgtc ttaaacatct gtgaaaaaga tggtactttt gacaacattt 60
atctgcatgt ccagatcagc aatgagtcgg caattgactt ctacaggaag tttggctttg 120
agattattga gacaaagaag aactactata agaggataga gcccgcagat gctcatgtgc 180
tgcagaaaaa cctcaaagtt ccttctggtc agaatgcaga tgtgcaaaag acagacaact 240
gaacaaatta caaatgaact ttcttgcact tgcttgtcgc caaataaaag agaggcccat 300

<210> 287
<211> 300
<212> DNA
<213> Homo sapiens

<400> 287
aagtaatacg tcctttcatc ttttctttca agatatttct gcattaaatc atcctcagta 60
tatttttttg aaagccaagt tttcccaaag ctcctcattt cctcatctcc ctctgtgcca 120
ctggtttttc agttgctggg ggctacagac cctctctcta gaaagatgga catgtgaaca 180
taagcactgc attttgcaca caatttccgt ggttcagaaa ccacctgaac ttttccttct 240
agaggaccct gcttaaacac ttccattcta gggtgtccag cccattaaga tggccaagaa 300

<210> 288
<211> 300
<212> DNA
<213> Homo sapiens

<400> 288
actttataaa taaattatat gtctgatact agccttccat tgcctggatc acatctgatt 60
gtcctggtaa tttgagaaaa gggtagcccc ttggtatgga tagtagcttg atgacatgga 120
attcagggaa aagactatga tggtgtcact tgtaactgct tttgtgctgt aaaattgtca 180
tggattaaga agagagttgg ctgggtgcgg tggctcacac ctgtaatcct agcactttgg 240
gaggccaaag taaggactgc ttgagcccag gagttccaga ccaacctggc caacacagcc 300

<210> 289
<211> 300
<212> DNA
<213> Homo sapiens

<400> 289
ttactgactg caacaacttc agattatacc tcttctactc caagtgcttt caaagaaagt 60
cctctgccaa gacaaattca ttacgttttt tcccctctacc tgtttgcctt tattctcttt 120
tgtatttcat cttctcatct agattgaata atctttgaga gcacagatgt ttatttatat 180
ttttcctttc catttctact cagcatgagg tgtccattga acaaacttga tgaattttta 240
ttgcttaata tcttgctaga ggtggggaga gaggttgggg gcggttaagg aactatcagc 300

<210> 290
<211> 300
<212> DNA
<213> Homo sapiens

<400> 290
ccactgcgtc cctttgcgtt cagcccctcc tctggctttc agttacacca agctaaaatt 60
tcaggttccc agctgcagct ctctgggtcc cccggtgccc cagtggggct ccccgcatct 120
gaatgtgtgg tccctggggg tgggcacttg ggggcatcct ggtcactgct ggccctagca 180
ttggacccta ggagacctga ctggaactgg ctcccctccc atcagctccc agctgtcact 240
ctctcccacc cccgggcagc tgttttgccc aagaccactg ctacctgttt acccaccctg 300

<210> 291
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 291
aataaacgta tgtgttcata ttcgatcacc gaaatgagag ttcttaattg ctaattgaca 60
aacgcgttag caatttcagt tagggagtca tctcccttga ttgtgttctt ttcctgtcaa 120
ttttcataga cctaatttgc aaactcaatc ggggactaaa atttcccact gaaaatgtta 180
aacattttag ataactgtga agatagttta tttttattcc ttgccaatct gggaatatgc 240
ctttttnnnn nnnnnnnnnn nnttnttaag tgctgtatta ataatacttt ctgaaagaaa 300

<210> 292
<211> 300
<212> DNA
<213> Homo sapiens

<400> 292
cgccagagca gcagtgggga acatcttctt gtctgctgga cacctgattg ggccggttct 60
ctgccattcc ttctgcaatt acatgggttt cccagctgtt tgcgcggcct tggagcaccc 120

acagaggcgg cccctgctgg caggctatgc cctgggtgtg ggactcttcc tgcttctgct 180
ccagcccctc acggacccca agctctacgg cagccttccc ctttgtgtgc ttttggagcg 240
ggcaggggac tcagaggctc ccctgtgctc ctgacctatg ctcctggata cgctatgaac 300

<210> 293
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 293
ctgcgctatc agcgcaaaga acctcccgac agtgccactg accccacctc cccccagccc 60
cacagctggg tctggctggg cactgaccag gaggaactga gccgccagct ggaccggcag 120
tcccctggcc cgcccaaggg ggaggggagc tgcccctgtg agagtggggg aggaggggag 180
ggccctaccc tggcccctgg ccctcctggg ggcaccacca gctcctcaag caccctggcc 240
cgaaaggagg ctgggggggcg gcggaagcga nnnnnnnttg ngacatttg 289

<210> 294
<211> 300
<212> DNA
<213> Homo sapiens

<400> 294
cagagctgtg atctgccccc aggtattctg acccccaaac tggctctcaa ccatgtttac 60
atgatgaaaa gaagaggtga ctgttgtatc agctctaaag gcctcacttt tggtgaaatg 120
ggacctaaat ttgattgcat acttgattac ttgctgtcaa tactgaaatt ggcacttcat 180
aattttaata ctattgaact ttcaccataa ccctgtccta taaagttgac ttgcaaatga 240
agaaactcta tctcttcaat attataaaat atatccaaga gtcacaacta gtgagaaaag 300

<210> 295
<211> 300
<212> DNA
<213> Homo sapiens

<400> 295
ctttcccatt cacttctcta gaaagctgcc aagacagagg cagaaagaaa tggatgatag 60
ttctgtcaag cacacttctg ttctcttaga acttagaagt gtttctaaga gaacagaagt 120
aataagagaa acagttacgt gtggaattca acatctttgg ttggaacgca ttggcttttt 180
ttttcttgtt ttgatagaaa tggaattaag caaaagtagt ttttgtcttt tctgttgtcc 240
tcaaattcca tgccttttat ttttaattta atcccgttca aatacttaat tgttatacat 300

<210> 296
<211> 300
<212> DNA
<213> Homo sapiens

<400> 296
gttttgttct cttctttgac tattaaaaag ctcagtgcca aatatttcta acatatggca 60
agtgtttctg tgtaccttac aagtctatat ataaattttt cttctcttga cagggtttta 120
tctatattta gcaagtcacc cctaattctt ttagaataag gcagaaaata aatcaacgta 180
aaggttgaga ccaagccaga gacagctggc caaagtagct ggttcaggga tataacctgc 240
aagttgccaa cccagcgcat tcttctcacc cttcttccac cctacgaaag gccatatctt 300

<210> 297
<211> 300
<212> DNA
<213> Homo sapiens

<400> 297
cgacagctct ccaatactca ggttaatgct gaaaaatcat ccaagacagt tattgcaaga 60
gtttaatttt tgaaaactgg ctactgctct gtgtttacag acgtgtgcag ttgtaggcat 120
gtagctacag gacattttta agggcccagg atcgtttttt cccagggcaa gcagaagaga 180
aaatgttgta tatgtctttt acccggcaca ttccccttgc ctaaatacaa gggctggagt 240
ctgcacggga cctattagag tattttccac aatgatgatg atttcagcag ggatgacgtc 300

<210> 298
<211> 300
<212> DNA
<213> Homo sapiens

<400> 298
tttctccatg ttggtcaggc tggtctcgaa ctaccgacct caggtgatcc acccacctcg 60
gcctcccaca gtgctgggat tacaagcatg agccaccgcg cccggcctcc ctgttccagt 120
tttctataat ctgttcatat tatattctgg gtatatgtgg gtggtgtgat tatccatgtg 180
gtcttatttt cacattcttt gcattaacta taatgtactt aatgttttaa gataagtttc 240
attctacaaa gatgtatgta caatacctgg tatcaggtaa caatcttaaa aaaaactaat 300

<210> 299
<211> 300
<212> DNA
<213> Homo sapiens

<400> 299
cttcagcatt cagccacttc gtttcagtgg catctgtaat atactcttta atatgaagat 60
gttgaattaa aagtcaaaat actgatgtga gttgacctag tctcaaaggg taaaagatta 120
tttttccagg gagcaaatga gaaggttggg tgcacgagcc ttttgctgaa cagttggagc 180
cgtgtccagg tggaggtgcc aatacagaat caggattggt gggcacacgg agaaacaggc 240
tatggccctt gagggctgaa ccccccaggg tgagggtgca gatgctgccc ctgcttcggt 300

<210> 300
<211> 300
<212> DNA
<213> Homo sapiens

<400> 300
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acctgctaca tctgattcaa atgcgggaaa aaataccatg tgtgcataat gaaaaatcat 120
tcatttttcc ctttcttacc ccagcaggaa tagaaagcaa ttccaagcca ctctgcaaat 180
gtatccaagg ttagagattc gggagctggc caacatctta caccccaaat gactgaagca 240
tttcagtagg ctgactggct cgaaataaca atttaagaaa ggggggaaaa aacctacagg 300

<210> 301
<211> 300
<212> DNA
<213> Homo sapiens

<400> 301
gaaatggatg atagttctgt caagcacact tctgttctct tagaacttag aagtgtttct 60
aagagaacag aagtaataag agaaacagtt acgtgtggaa ttcaacatct ttggttggaa 120

cgcattggct ttttttttct tgttttgata gaaatggaat taagcaaaag tagtttttgt 180
cttttctgtt gtcttcaaat tttatgcctt ttatttttaa tttaatcccg ttcaattatt 240
taattgttat acattgacat taactgctgt attttgactt tgttcaataa ttttgttctc 300

<210> 302
<211> 300
<212> DNA
<213> Homo sapiens

<400> 302
agtacccaga gttgcgagga gtttttttaac tgatttagcc aggtggcaat catgagtgaa 60
tggatgaaga aaggcccctt agaatggcaa gattacattt acaaagaggt ccgagtgaca 120
gccagtgaga agaatgagta taaaggatgg gttttaacta cagacccagt ctctgccaat 180
attgtccttg tgaacttcct tgaagatggc agcatgtctg tgaccggaat tatgggacat 240
gctgtgcaga ctgttgaaac tatgaatgaa ggggaccata gagtgaggga gaagctgatg 300

<210> 303
<211> 300
<212> DNA
<213> Homo sapiens

<400> 303
accagtatca gatttgtgat taatcgcatt actgtcaagt cctcatgcag gccagtcaga 60
cttctgtgtg tgttccctca ccttccattt aagtttcagc ctttatctat gtccttttgg 120
gtgtctgcca tgctgatgat agagctcatc agtctttgat aaatactgtt aggtccttaa 180
gtgattttct gtgaaatctt acgcatagga tttctgtggt cagggtttga cgtctgatct 240
tgttcgtcag atccccttgc tcaagaatgc aagtgcatta cctcttaaat tttaaaagct 300

<210> 304
<211> 300
<212> DNA
<213> Homo sapiens

<400> 304
attggagttg aaattaacat ttcaaaagtt tttcgtattt ttttatggca gatgatttgt 60
catttattta tattaggttt tactgcctat tgagacaacc aggtgcataa ttgattgccc 120
tttggccata aaaatgcagt gtcatggatc ttagagctaa aaaggactgt aaaaattacc 180
cagaacagcg tcctcagact taaccttctg caagttatgt ctgtatataa gaagattcta 240
attgctaact gtttatactt ttctgaataa aatagttgtt tcctaattaa aaagtagcca 300

<210> 305
<211> 300
<212> DNA
<213> Homo sapiens

<400> 305
gtggaactgg ctcaggctgg attactcttg ctgctgtctt gctgtactgt atgccactgg 60
gatctgaaca ctaaacattg ctaagaaacc cacccaccac caggatattt ggaagtaact 120
tcacatatgg aaaagttaaa gactcagtct ctgagaaaac aattggactg atgcgaatgc 180
agttttggaa aaaaactgtg gaagatatat actgtgacaa tccaccacat cagcctgtgg 240
ccattgaact atggaaggct gttaaaagac ataatctgac taaaagatgg cttatgaaaa 300

<210> 306
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 306
cacttgggtg agatccaatt tatctcacct tctgatagtt ttaaaagaga agtaatttta 60
atttacatta actttaaaat atttgtatgc caaacactag ttattttgag gggatcgaaa 120
caaatcatag cagagataag gaactttcat actttgggag gatttttttt aaataactgt 180
atgtttactc taagtagata tgtgtatgca tgcattcact tatgatatgc acannnnnnn 240
nnnnnnacac acacacacac acacacacag aaatttatgn ngcctttaan aatcttggga 300

<210> 307
<211> 300
<212> DNA
<213> Homo sapiens

<400> 307
agagggtggg gtctggccac ataggtacct ctgtggctct ggtctggggt tagacactgt 60
tagggactag catttattgg acttgtaaag acagcacctc agaattagta actacttgca 120
ttttagggtc tgttttatga agccaacaag tgaatgtaaa ataggctctg catcttttct 180
gagagccctg tcactgggca gtgagcattt ccaaaattgc agctctgtca gaatgaacca 240
tgaatactta agaaagggaa agtaggaaca gggagcagag caaagcataa cttgctgtgt 300

<210> 308
<211> 300
<212> DNA
<213> Homo sapiens

<400> 308
cttctgttga ttggtttgtt taaagtacct aagtactacc ctttgactcc ctaccaaaag 60
ttcttttgtt ttttaaacaa cttttatttg tgacttactt tcttgagaag tgttcttaat 120
gaattgcata aaatagtggt agcagcttat ttcttaagta ctttattatt tgtgctttac 180
catttcaggt tcttatcttt aacccttatt tactcagttt tccatctgaa tgatcctatc 240
tctaaattaa ggatttaata aatgctgcaa attgtccact ttgcaaattg tccaaaagct 300

<210> 309
<211> 300
<212> DNA
<213> Homo sapiens

<400> 309
ggctcagagg ggttatgatt cggagggttc tgccgcacgg catgggccgg ggcctcttga 60
cccggaggcc aaggcacgcg cagaggaggc ttttctctgg gtaaagttga ggacgacaga 120
gggtattgtg gttctgggtt gtccccaacc tccgactgtg tgtccttcag gacccgaaac 180
catggcccac actggcagga cagtgggtcg gcttggggaa gggggttagc ttacctacca 240
gagcttgtag gggctgtgca ggtgtatggc tcccaaggcg gccctttca ggtggcaggt 300

<210> 310
<211> 300
<212> DNA
<213> Homo sapiens

<400> 310
gggaccagaa catgaccggc tgggcctaca aaaagatcga gctggaggat ctcaggtttc 60
ctctggtctg tggggagggc aaaaaggctc gggtgatggc caccattggg gtgacccgag 120

gcttgggaga ccacagcctt aaggtctgca gttccaccct gcccatcaag ccctttctct 180
cctgcttccc tgaggtacga gtgtatgacc tgacacaata tgagcactgc ccagatgatg 240
tgctagtcct gggaacagat ggcctgtggg atgtcactac tgactgtgag gtagctgcca 300

<210> 311
<211> 300
<212> DNA
<213> Homo sapiens

<400> 311
acaagaagcc atgaggccat agggagaagc tccctctccc cttcatcttc tgctccaaag 60
gtggtagcaa gaggagtacc cagttagggg ttggagcccc catataacat cttcctgtca 120
gaagactgat ggatcttttt cattccaacc atctcccttt cccccgatga atgcaataaa 180
actctgtgac accagcaacc attgctcttt agaaatgggt tttctgatca tatggctgat 240
gtgttatggg cagcatggat gtcttcattt gttgcttctg tttttcatct tttttgtttt 300

<210> 312
<211> 300
<212> DNA
<213> Homo sapiens

<400> 312
aaagaatcca attttagagc tgctaaaaaa ctctttggaa gcacctttgc atttcatggc 60
tcacagattg aaaactggca ctccatcctg aggaatggtc tggttgttgc ttctaataca 120
ccgattgcag ctccatggtg caatgtatgg aagtggaatc tatcttagtc caatgtcaag 180
catatcattt ggttactcag ggatgaacaa gaaacagaag gtgtcagcca aggaccgaag 240
ccagcttcaa gcagtaaaag cagcaataca tcacagtcac agaaaaaagg acagcaatcc 300

<210> 313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 313
gggtgttgga gcagattgta gttgatccac agcaaagagc atcaccaaag ccattccagg 60
aggaactaga tccaccactt cctctgctgg gcatgctcca aaaatggttg tggcttccag 120
agaggactcc aaaagaaagc acaaaaacta gacagtggga gggcataccc aaaagccctg 180
agtttctgaa aaaatattga aagtttctat ggtgaaatag gaagttaatg tgcttaggaa 240
gaaaaaagtg gtaatgattc aaggaaacat aatcacacac ggttttagtt ttaatggaca 300

<210> 314
<211> 300
<212> DNA
<213> Homo sapiens

<400> 314
ggcggaggag cagaagctca agctggagcg gctcatgaag aacccggaca aagcagttcc 60
aattccagag aaaatgagtg aatgggcacc tcgacctccc ccagaatttg tccgagatgt 120
catgggttca agtgctgggg ccggcagtgg agagttccac gtgtacagac atctgcgccg 180
gagagaatat cagcgacagg actacatgga tgccatggct gagaagcaaa aattggatgc 240
agagtttcag aaaagactgg aaaagaataa aattgctgca gaggagcaga ccgcaaagcg 300

<210> 315
<211> 300
<212> DNA
<213> Homo sapiens

<400> 315
aagtatatat gactccactc aggggtgtaa aagcaaccca agcatcaaag tctactcagc 60
taaagactaa cagaggacag agaaaagtga cagtttcagc taggacgaac aggaggtgtc 120
agactgctga agccgactct gaaagtgatc atgaagttcc agaaccagaa tcagaaatga 180
agatgagact accaagacga gccaaaaccg cagcactaga aaaaagtacc acttaccctt 240
gcccaatttc tcaatgaaga tctaagttag gaaagacgat ggaggtggaa tcctttaaga 300

<210> 316
<211> 300
<212> DNA
<213> Homo sapiens

<400> 316
gacctatctt gatctggata gtaaagtgag gactttaaaa aaggttatta aattactggg 60
agaaatcatg gagcacagat tcaagacata tcaacaattt agaaggtgtt tgactttacg 120
atgcaaatta tactttgaca acttactatc tcagcgggcc tattgtggaa aaatgaattt 180
tgaccacaag aatgaaactc taagtatatc agttcagcct ggagaaggaa ataaagctgc 240
tttcaatgac atgagagcct tgtctggagg tgaacgttct ttctccacag tgtgttttat 300

<210> 317
<211> 300
<212> DNA
<213> Homo sapiens

<400> 317
gattgtgaca tggtgtaata aaggtataca tggtgtaata aaggtataca tggtgtaata 60
aaggatgtgg gagcacaaat ccataggaat ttgagagttt aggaattgta tttattattc 120
aggcccttca ctctcagact accctgctct atttgaataa tgaggcttgt ggtggtctgt 180
ggaaaagtgg acagagtaga atttgggcag ctgctgaagg tttggtctct ggaatgagtc 240
cacgttaccc taaggacagt aatcccaaat tgagacaaaa actttaagaa aaccaatgtt 300

<210> 318
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 318
ggggtcttgg atggcttttc caccgtccct gagactgggg ttgaggggac tgacgggggc 60
caccaccgcc ccgccctcca gcgcctcctc ccagggtggc tgggcctcct gttctcaggg 120
atcacannnn nnnnnggggn ccaacccctt ccggaaccaa ggtgcangct tangnctgcg 180
gctttctggn tgtgtgctgg cttctgggct tcancctcct gccccagccg tccctgccan 240
ggcacanngg accatggggg ctgggagtcc catnanagca gtgangtggc cccggcct 298

<210> 319
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)

<223> n = A,T,C or G

<400> 319
agagggtggg gtctggccac ataggtacct ctgtggctct ggtctggggt tagacactgt 60
tagggactag catttattgg acttgtaaag acagcacctc agaattagta actacttgca 120
ttttagggtc tgttttatga anccaacang tgantgtaaa atangctctg catcttttct 180
gagagccctg tcactgncan tnnagcattc ncnanattcg natctctgnc ntnatgtant 240
atgnctacnt ttnanttntt ttgtttcccc ntttnct 277

<210> 320
<211> 300
<212> DNA
<213> Homo sapiens

<400> 320
aacgttcccc cgctacatag tctttctttt gtgttattta gtttaccatt tctttttcc 60
atcttgttat aacctccacg agttgtgtct cttttgtttt ctacattata cccaacggct 120
agcacataac aggcacccaa tatatactga acgaactaag gaatgaatga aggaatgaat 180
gaataggtgg cttataggaa acccctgggg ccagggactc tgcaacatca ccatgtaact 240
ttttctttgt gctgagaagc agagagaaac aatagaagat atctcttaat ctctcaagga 300

<210> 321
<211> 300
<212> DNA
<213> Homo sapiens

<400> 321
gaggcaccag caggtagtgg cccctgtaag cagggccaga gtcgggacaa agagcaggag 60
tgaagcagcc aagagacaga ggaccaggct ggagccagtg ggcacgcagg agcctgcctg 120
ggaaaagccg gggggcaagg ctggcatggg aatgaacacc tgctggtgac acctctctga 180
gcttcagttc ccttaactag aaaaatagaa caggcccggt gcggtggctc atacctgtaa 240
tcccagcact ttgggaggct gaggcgggtg gatcatgagg tcaggagatc aagaccaccc 300

<210> 322
<211> 300
<212> DNA
<213> Homo sapiens

<400> 322
gaccagaaaa acaggtacgg aatgagccct ggaacatttc tatttcagca gaatatattg 60
cccaggtgaa agggatctca gtggaagaag ttatagaagt gacgacacag aatgcattaa 120
aactgtttcc taagctccga cacttgctcc agaaatagct tcaaaaccat ccattacaaa 180
atcgaatcaa ctgcaggggc cagcatttga aacatagaaa tgttctgatg aagaatctga 240
actgaagaag ctgttttata gggttataga agattgtaat tgtagagaaa tatttctctt 300

<210> 323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 323
gtgatctgcc tgccttggtc tcccaaagtg ctgggaatac aggcatgagc caccgcactc 60
ggccaggagc tagttttatc agcatcctgc tccactgcct tcctctagtg cagcctggaa 120
gacatggcag cgggtagctc ctggggctga gccagaagca tcactgcagt gaaagtctct 180
gcttacctgt ctggctcagc ttgggcaagg gctgggccat atgtgctcag ggacgtgctt 240
ctcttgtaag gcaggaggat agaagaggac caagaaggga gggagctgcc ctgtggtgca 300

<210> 324
<211> 300
<212> DNA
<213> Homo sapiens

<400> 324
gactggagaa gtcagaagta gaaaagcaga ttgctaggag agacaggatg acagattttg 60
gtcagaaaat gggatattgg agtttaaagt atcaaataca gaatagttcc agatgttcag 120
agatccagca tgggattagg tactgaaatg gattagaact aaaagtcact agaatttaga 180
aattgagaac catgagagtg gatgcaatga cttgttgctt gattgaaaaa taaattaata 240
ataataaagg accatgagac tagcctgtta taggggttat ctccatgaac attgaatttt 300

<210> 325
<211> 292
<212> DNA
<213> Homo sapiens

<400> 325
ttcgagtgca agctccccat ctttctaaag tttccatggc aatacagcta actgaagaac 60
taaaagccag tgatgtactt gccagggttc tcagccaaga aagtggggtt gcccagactc 120
tcaagaaagg agaagttttt ttgtatgaaa ttggaggaaa tattggggaa ccctgccttg 180
atgatgacac ttacatgaag gatttatatc agcttaaccc aaatgctgag tgggttataa 240
agtctaagcc attgtacaag acttaacaag ctgcagataa ccatgtggac tt 292

<210> 326
<211> 300
<212> DNA
<213> Homo sapiens

<400> 326
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt atacagacat ttttttttta acttgttgat 60
tcagatgtct tggtccctga atagtcctag attacttatt ttgagaattc attgttaaaa 120
attacaggga attaaaataa ttgccttttt ttttagaggg taagagatgg gtagaagagt 180
atgcctctga aaattttatt agtttattct tgtggagaat accaagaaaa tgtgtatttg 240
cccattgcta aatatgatat atgccatttt gtatttattt gtcccaagtg tctttttgta 300

<210> 327
<211> 300
<212> DNA
<213> Homo sapiens

<400> 327
gcagggagtt gcttgggtgg ccgctaacac caggctactc ttattttagc ttgctaagtt 60
gagatcagct agacctgctt tcttttctcc tcagtcttgc atttccctca atacaagctg 120
tagcctcttt cctcgtttct agtctcagaa ggaaggagag ggaagccatt ctcctctagg 180
gactcttcag tctcatttag atgatagtcc ctttttttct acctccatat tagagatgga 240
gctccttcct tttcctggtt cttaattttt gtcttctcat tcctgcttcc ctctcaccct 300

<210> 328
<211> 300
<212> DNA
<213> Homo sapiens

<400> 328
ctctggagta gctgggatta caggcatgca ccaccatgcc tggctaattt tgtatttcta 60
gtagagacag ggtttcgcca tgttggccag gctggtctca aactcttgac ctcaggtgat 120

tcacccacct cagcttccca aagtgttggg attataggcg cgagccacca tggctcagcc 180
tcatgttcgt ttttaaaact taggatggtg gctcttttac attgattggt aggaactctt 240
catattacga ggcagttagc tagttgtctg tgaaataaaa tactaatgat tgaacttttct 300

<210> 329
<211> 300
<212> DNA
<213> Homo sapiens

<400> 329
ggttctacca gtgcctacac caagagtggc tactgtgtca acaggttttc ttcacttctg 60
ccaggaggca acaggcgaaa ctcaacagca aaagactaca ccattctaga ttgcatttac 120
aatgaggtaa accagaccta ctacgttctg gatgtgatgt gctggcgggg acacccttt 180
tatgattgcc agactgattt ccgattctac tggatgcatt caaagttacc agaagaagaa 240
ggactgggag agaaaaccaa gcttaatcct tttaaatttg tggggctaaa gaacttccct 300

<210> 330
<211> 300
<212> DNA
<213> Homo sapiens

<400> 330
ggtgttttgt tctgtagcag aagcataggc atactgacaa tacaaaccga aatccttcta 60
acgtagtgga ccttttcagg ccagcatttt ttccttgaaa acctggagca tgtatccatc 120
ttatagcaga gatcactttc acaatgtttg ggctcttgat ttgaattgat gatgtaatga 180
gccctctatc cagattgtaa ctaattactc tgcgaattga ctggattcca caccttcta 240
atattttact tttcctcttt tatcaactct cattctcgct gccatgatca atggaccaac 300

<210> 331
<211> 300
<212> DNA
<213> Homo sapiens

<400> 331
ctgtgcacac aaattagaat ccttgtaaaa tggccatgat tctgtttatg accctggccc 60
tccaaccaga ccagcctctc tgccctctgg ctttttaga tcactggcat ggtttctgcc 120
tactccaggt gccagtatta ttttgtgaat gtttttttc ttcatatcta ctcatcttta 180
tactactttc ctcgtaaaag gaaactagag aacatgatct taaatgaaaa ccaacgatca 240
cttgccagaa agaacaggta actaggcttt gaaaaaataa gttagaggag atagcataat 300

<210> 332
<211> 300
<212> DNA
<213> Homo sapiens

<400> 332
tccctaagaa tctcaaactg atttttaaaa atccggtaaa ttagaagggg ccctcgctat 60
tttctgtgtc agtcttcatt ttaaatatgg atacaaaaag gatacgccga gccaatcaaa 120
gacaagcttt aactttactt tgaagtgttt ctgaaatgat aaaatgtagc cctagccccc 180
tgccctcaat tgtaaagtga gcaaccattg ctagtaattc tttaatgtgt ataaattcaa 240
tttcaggtat aacaaatgtg atcatgacat gaaaatattc tagaatagat actgtattaa 300

<210> 333
<211> 300
<212> DNA
<213> Homo sapiens

<400> 333
ctggagggag acccccaaaa agaattaggg tgctaacatc ccaccaaaag catcatccca 60
cccaaaatgt tgcttttcat tctatgtcaa taatttaagg tggaatttct ctcaccctgt 120
ggagatgaaa gtggcaaaag gttgtcccag cagtgttggg ggatggggtg tgcacatcat 180
tcttttgggg gtagatgacc tgctggctgg tgggcttttc tccaggacta ctgcaggtag 240
agaccctctg ggcttgtgtg gagtgggagc agccgtgttg ggactatggg gaggagctgg 300

<210> 334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 334
gcaccagcag gtagtggccc ctgtaagcag ggccagagtc gggacaaaga gcaggagtga 60
agcagccaag agacagagga ccaggctgga gccagtgggc acgcaggagc ctgcctggga 120
aaagccgggg ggcaaggctg gcatgggaat gaacacctgc tggtgacacc tctctgagct 180
tcagttccct taactagaaa aatagaacag gcccggtgcg gtggctcata cctgtaatcc 240
cagcactttg ggaggctgag gcgggtggat catgaggtca ggagatcaag accaccctgg 300

<210> 335
<211> 300
<212> DNA
<213> Homo sapiens

<400> 335
ggaagaggga cgccgagaag aaggacctgc ctgtcaccaa aaacacgctc aagtgcactt 60
tccggtccct ccaggtcagc aggctgccca gcagcggcga ggctgcagcc acgcccacca 120
tgtccatgac cgtggtcacc aaggagaaga acaagaaggt gatgtttctg cccaagaaag 180
cgaaggacaa ggacgtggag tctaagagcc agtgcattga gggcatcagc cggctcatct 240
gcactgccag gcagcagcag aacatgctgc gggtcctcat cgacggcgtg gagtgcagcg 300

<210> 336
<211> 300
<212> DNA
<213> Homo sapiens

<400> 336
cagagctgta tcttcagtgg tgtgatgaag ctacagtagg ggagatcact catgctaggt 60
atggatctcc ttacccttgg cctctgaatc atattttggc ctatcaaaaa cagtgggaag 120
tcaaacgtaa gatgaaagct attggatggg gaaagaagac tctggaccag gtcttagagg 180
atgtagacca gtgctgtcaa gctctctctc aaagactggg aacacaaccg tatttcttca 240
ataagcagcc tactgaactt gacgcactgg tatttggcca tctatacacc attcttacca 300

<210> 337
<211> 300
<212> DNA
<213> Homo sapiens

<400> 337
ataggcatac tgacaataca aaccgaaatc cttctaacgt agtggacctt ttcaggccag 60
catttttcc ttgaaaacct ggagcatgta tccatcttat agcagagatc actttcacaa 120
tgtttgggct cttgatttga attgatgatg taatgagccc tctatccaga ttgtaactaa 180
ttactctgcg aattgaatgg attatacacc cttttaatat tttacttttc ctcttttatc 240
aactctcatt ctcgctgcca tgatcaatgg accaactatg cttataacca caaatggtga 300

<210> 338

<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 338
gcttgcactt acacacggaa tcgctgtgca tccgacagag gctgattggc acatggggca 60
cggggattgt cagctcaaac accgtcagca gcgttgccct tggaaatggg atttcccaga 120
acagtaaacg tgtctgtcct tgatttacag agtagctaca ttcctaggaa atccagggta 180
cattaaaact caccatgtta cccaggctgg tctcaaactc caggcctcaa gcaatcctcc 240
tcctgtctcc acacagacgg cttctgcacg tttgngaatc tacaggncac tccttgca 298

<210> 339
<211> 300
<212> DNA
<213> Homo sapiens

<400> 339
gcagagagaa gggccgttct cggctggtat caggcccaag agagtcaaca aaggggggac 60
gaaagggaga cagggaagag aacagtggtg gggctgtaag ttgacctcca ggtggcagaa 120
aataaagttg gaagaattga ctgggacaga cagccagggc cctgcaggaa gggcgggaga 180
ggaagcctgc ggacacctgc cctttgtgat tgaaccgcag acaccaggcc tggcggggtc 240
gcttgcctcc gctgcccaag ctaaggctcc gctaagctgg tcctgagaac atacttcatg 300

<210> 340
<211> 300
<212> DNA
<213> Homo sapiens

<400> 340
ccagcccctc ctctccccgc cttctgggag gaggaggtca cacgctgatg ggcactggag 60
aggccagaag agactcatag gagcgggctg ccttccgcct ggggctccct gtgacctctc 120
agtcccctgg cccggccagc caccgtcccc agcacccaag catgcaattg cctgtccccc 180
ccggccagcc tcccccactt gatgtttgtg ttttgtttgg ggggatattt ttcataatta 240
tttaaaagac aggccgggcg cggtggctca cgtctgtaat cccagcactt tgggaggctg 300

<210> 341
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 341
aagctgctag gttccagttt taatttttag ggttagttgg actctgttat gaaaagatag 60
gttatgggtg ggcgacaggt tgatacagtc ttagaaaaag caggtaatat caaaggattg 120
gaaagctagc atgcatgccc tcttacctgg gtatcttccc ccttttttcc ttttaaactc 180
ttgagcctcc tataacagaa ggattatgtg cttcaaacct tcttntttna ctgngccatn 240
aagtgggctn gngcccaaaa tatttacttg canaanatcn gtnactggct taaatacttc 300

<210> 342
<211> 300
<212> DNA
<213> Homo sapiens

<400> 342
agaagattgg ggatgaggag tgaggagaag gctggagacc agttagaggc taccgtagca 60
gcgtagagag gctgaaaatc taactagggt ggaagcagcc aggcaggctg gtcctaatgt 120
tgggagttgt tcagatctgg tggagaggtc attacttata gagttattaa tttatacccc 180
accttaattg caaagagatt caaagcagta agccatcact ttagaattta atgttctgtt 240
ttccttttta tttactcatt cagcagctat ttcaatgcct gctgtgtgcc aggtgctatt 300

<210> 343
<211> 300
<212> DNA
<213> Homo sapiens

<400> 343
gctgcacagt gggaagggca ctgggctgga agccctaccc atgtcaggga atgtctgggc 60
ctcagatttt tattttctag aatgaagata cttacccccc aattgctgag atatttgaat 120
aaaagtatat gtgaaggatt ttgtaattat agaatgtcct acaaatatga gtagttcgtt 180
tgctactttt ttggcgaaga aaaatattgg gatgcatgaa taatatctac ctaaggtacc 240
taaggttgta ttcatcccat ttattgaatg ccaaggatat accagctact gctccagatg 300

<210> 344
<211> 300
<212> DNA
<213> Homo sapiens

<400> 344
ctgggaagga ataattcaat ttgattggca gatatatata atacagtagg agaataatgg 60
gagaaagata aattgagact agaataggta gactttaaat gcctgtctgg tttaggtatt 120
tgaactttca aggtgtggta aatgtttgag taaaggaata atgtgtccaa agattattat 180
ggaattgtct ctctgcatac ctctatcgct gtttgtcaca gctgtgttct tatgtgactg 240
attcttcctg aagattagaa actcctcaaa gactggttat tagagcttat tcttcattat 300

<210> 345
<211> 300
<212> DNA
<213> Homo sapiens

<400> 345
aaaaagtaaa gcttttcatg agcacaaatc ccttgcattg tttgatgtta ctgatattcg 60
taaaatgaat atttttgtt ttgttttgtt ttatttttt gagacaagtc ttgctttgtt 120
gcccaggctg gagtgcaatg gcatgatctt ggctcactgc aacccctgcc ttgcgagttc 180
aagtgattct tctgcctcag cctcctgagt agctgggatt acaggcgctc accaccacac 240
ccagctaatt tctgtatttt tagtagacac agggttttac catgttggcc aggctggtct 300

<210> 346
<211> 300
<212> DNA
<213> Homo sapiens

<400> 346
agaaatgtag cacaaaatgg agaagtcgtt caaccttgac cctgtcagag ttcttatttg 60
aaagccacat tgctgctagt gttcttattg tgttttggat tctgtttctt gccctttttc 120

ttattagcca agtagtaact taaggaagca gataagaaca atgaattttg gactaaagga 180
agtaagaaca atgaaccaga aatcagatag gaatgtggtg ataattgtga catggtcaca 240
tagtcatagt gggagctcat gtgagtaaaa atagcttgat acatttgtta agaggcttgt 300

<210> 347
<211> 300
<212> DNA
<213> Homo sapiens

<400> 347
caaagccgtc ccttcaaatc cgtctttgtg cccactgcca tagtcaaccc cgtgagaagc 60
acagccggcc ctgggacttt aggacaaggg tctcttcgga aagggcggag cagcatgaga 120
aagaatggat ccctgcagag acccctccag tccgggatcc ccactctcgt ggtaggctcc 180
ctcagacgca gccccaccat ggtccttcgg cctcagcagt tccaattcta ccagccacag 240
gggatcccct cctccccctc agccgtggtg gtggagatgg ggtccaagcc tgccctcacg 300

<210> 348
<211> 300
<212> DNA
<213> Homo sapiens

<400> 348
actcctactc agcccatgga cccgatgagc tggacctgca aaagggagaa ggcgtcaggg 60
tcctggggaa gtgccaggac ggctggctca ggggcgtctc cttggtcacc gggcgagtcg 120
gcatcttccc aaacaattac gtcatcccca ttttcagaaa gacctctagt tttccagact 180
cccggagccc tggtctctac accacatgga cgttatccac ctcctctgtg tcctcccaag 240
gcagcatttc agaaggtgat ccacggcaaa gccgtccctt caaatccgtc tttgtgccca 300

<210> 349
<211> 300
<212> DNA
<213> Homo sapiens

<400> 349
agaatgctgc cacagatgtg agacgggtgt ggctttcttc agtggtggat cactttcatt 60
catctttagg cgacaaaggt tggggttgtg gttacagaaa tttccaaatg ctactttcat 120
cattattaca aaatgatgct tacgacgatt gcttaaaagg tatgttgatt ccttgcattc 180
caaaaattca atctatgatt gaagatgcat ggaaggaagg ttttgatcct caggggggcct 240
ctcaacttaa taacaggtta cagggaacaa aggcctggat tggagcatgt gaagtatata 300

<210> 350
<211> 300
<212> DNA
<213> Homo sapiens

<400> 350
aaaatccggt aaattagaag gggccctcgc tattttctgt gtcagtcttc attttaaata 60
tggatacaaa aaggatacgc cgagccaatc aaagacaagc tttaacttta ctttgaagtg 120
tttctgaaat gataaaatgt agccctagcc ccctgccctc aattgtaaag tgagcaacca 180
ttgctagtaa ttctttaatg tgtataaatt caatttcagg tataacaaat gtgatcatga 240
catgaaaata ttctagaata gatactgtat taaatattgc catgtttaca atatgtaata 300

<210> 351
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(251)
<223> n = A,T,C or G

<400> 351
cacactccag gctgagaaag agtaattagg aggcctgagg aggggccgag gaaaggctgt 60
tggggtgtgc tggggttggt acccgagcgc cttcccctca cctcaaccag agaagagcat 120
ccggttgctt tttaaagctt ttagcctgcc ctagcaagga caaagcatgt tagattagag 180
atgcttctgc tgatcgcagg ggttcttatt tgaaaacatc tatgatgggg gaggtgnnnn 240
nnnnnnnnnn n 251

<210> 352
<211> 300
<212> DNA
<213> Homo sapiens

<400> 352
atccagatgg gatacctcta aacacgaaaa gaaagaagat tccattagtg aatttttaag 60
tttggctaga tcaaaagccg agccacctaa acaacagtcc agccccttag taaacaaaga 120
ggaagagcat gcaccagaat catccgcaaa tcagacagtc aacaaagatg tggacgcaca 180
ggctgaagga gaagggagcc gcccatccat ggacttattc agggccatct ttgccagttc 240
ctcagatgaa aagtcctcat cctccgagga tgagcaaggt gacagtgaag atgatcaggc 300

<210> 353
<211> 300
<212> DNA
<213> Homo sapiens

<400> 353
tgtctacact ggccgagtct ctgggtctgt ctacactggc cgagtctccg actgtctgtg 60
ctttcactta cactcctctt gccacccccc atccctgctt acttagacct cagccggcgc 120
cggacccggt aggggcagtc tgggcagcag gaaggaaggg cgcagcgtcc cctccttcag 180
aggaggctct gggtggggcc tgctccccat ccccccaagc ccacccagca ctctcattgc 240
tgctggtgag ttcagctttt accagcctca gtgtggaggc tccatcccag cacacaggcc 300

<210> 354
<211> 300
<212> DNA
<213> Homo sapiens

<400> 354
ccccctctt ctaggatgag ccactgtaga tcattaaagt tcctccttga gaggctgagc 60
cgtagccagg attggggaga gcccttgtct ctggtcagcc ctggagcatg ggatcgtggg 120
aaagaggagg gggaccaggc ccagggcagg ggtcagaggc ccaggccctg acttcggctt 180
cccagagatc tctccgcctt agttaagagc atgtgtcggg aaattcctca gagtgctcag 240
agtccctgta tttttatacc tttttacaat gttaactgtt cagaactgtt ttttgtaaca 300

<210> 355
<211> 300
<212> DNA
<213> Homo sapiens

<400> 355
cttggaaatg cttctagctc cggacattcg acatgaaaga aatgtgattt tgcagtgtgt 60
tcggtacatc atcaaaaaag acttttttgg actggatact aattctgcga aaagtaaaga 120

tgtataggca tctggtgttt cagcatacat aactgaagca tgtgaaacag tatcatcctc 180
gttagtagag gaaaaccaaa acccttttt ccgtcaaaat tggatttgta attaaattgt 240
aagcctcgta ggatgtatgt tggaatttta agtctttcct ttggttctat gcaaataaaa 300

<210> 356
<211> 300
<212> DNA
<213> Homo sapiens

<400> 356
ccgaagcaga ggacccggac gatgaggctg ggtcccactc agcctcgccc agccctgctc 60
aagctgggag tcccctccat ggagacacat cacctgcagc caccccaca cagcgcagcc 120
cacggacctc ctttggctct ctgacagaca gcagtgaaga ggcactggaa ggaatggtac 180
gggggctgag gcagggtggc gtgtccctcc taggccagcc acagcccctg acccaggaac 240
agtggcggag ctctttcatg cggcgcaacc gagaccctca gctcaatgag cgagtgcacc 300

<210> 357
<211> 300
<212> DNA
<213> Homo sapiens

<400> 357
gacagaccgt tgagaggacg tggaggcccg agaggggta tgcgcggcag aggcagaggt 60
ggccctggga acagagtttt tgacgctttt gaccagagag gaaagcgaga atttgaaaga 120
tatggtggga atgacaaaat agcagtcaga actgaagaca acatgggtgg atgtggagtt 180
cgaacctggg gatcgggtaa agataccagt gatgtggagc caactgcacc gatggaggaa 240
cccacagtgg tggaggagtc ccagggcacc ccggaagagg agtctccagc caaagttcct 300

<210> 358
<211> 300
<212> DNA
<213> Homo sapiens

<400> 358
atcaccctgg cacgttcccc tcagctgggc tctgcagggc agctaagatt gggcactgat 60
gttcctggct tcagtcctac ccgggttatg cagctacggc ttcatacata caccagttgc 120
actaacttgg gatgaaaatt aagttaaaac cagtagaaaa tttcatccta tgttttggtg 180
gtaaaagaag caaatgaaca aatgaataga ggctgccaaa cagttgtctc accaactgtt 240
ccgactagct aacaagatta gctaggtcat acctagtcgt aaaagaatac tataagaact 300

<210> 359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 359
ctcgattcag cattatacta ggctgcctcc atgtgttttt caaagcccca ttcaagtttt 60
acttctatgg taaactaatt ttacatacac aaatcttttc attttctgaa cttcctttat 120
ggctttactg tcaccccact agtatttgat gtcttagcta ttaactaatt cctgatcatt 180
tcacttgtca catcaggaac cctatcctct tagttctccc attgagattt cactgctgga 240
ctaagattat tcttgattcg tagtcattgg tttctgtttc cattcatttt cagcactgat 300

<210> 360
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 360
ggagtttttt ttttcattat aatttttttca ggaaagactt atggaaaaaa atatctctct 60
cccacctcct tttatcccca tgagacacag tttcccactg taatcagggt aatatgcatt 120
tgtaagttct gatatgtgat tcatttatgt gatggcaaag ataagtctgt cttgaatgca 180
ggtactannn nnnngtnnac annttatncn aatntcaanc aacnntaatt nctactacnn 240
ngtnttctga nnaagangnn ntnntcattt agatntngnn accntnctga tta 293

<210> 361
<211> 300
<212> DNA
<213> Homo sapiens

<400> 361
gtgatccgca agttgtggaa gaaatacgcc aagcaaataa agtagccaaa gaagctgcta 60
acagatggac tgataacata ttcgcaataa aatcttgggc caaaagaaaa tttgggtttg 120
aagaaaataa aattgataga acttttggaa ttccagaaga ctttgactac atagactaaa 180
atattccatg gtggtgaagg atgtacaagc ttgtgaatat gtaaatttta aactattatc 240
taactaagtg tactgaattg tcgtttgcct gtaactgtgt ttatcttttt attaatgtta 300

<210> 362
<211> 300
<212> DNA
<213> Homo sapiens

<400> 362
ccaggtagct ctcaaacttc ctcctcaatc cactcctcct tttacattca tggaaaggga 60
gggggaaaga agcccagtct ccaaggtcag ccagttacac cagaagcagt gccaaccaga 120
atatgagccc cgccctggga cagggcacag agccctcact agcatgctgg agaggggcca 180
ccccaggtcc tgggtgtccc tatacccagc tgcttctctt caagctggtg aagcccctgc 240
cactgccacc acctcctccc ctaccttggg actttgtgtt taatcctgga agtcacaatt 300

<210> 363
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 363
attacctcca aatctcaagg cggccttgaa cattgagaaa gaactaccaa agccaagaca 60
cgttttcaga aggaagacag cctcctccag gagcatctta cccgacctct tgtcaccgta 120
ccaaatggcg atccgagcaa aaagactgga agagagccga gcggcggcgc tccgagagct 180
ccaggagaag caggctctga tggagcagca gagacgagag aaaagggcac tgcaggagtg 240
gagagagcga gcccagagga tggagaagag gannnnngag ctcagcaaac tcctgcctcg 300

<210> 364
<211> 262
<212> DNA

<213> Homo sapiens

<400> 364
cttcaggaac tagatgtata tgcacaaggg attgagttta cactaaaact aggaaatgga 60
gttttcaatc tatgttcttg cctcttcata cttttattta ttttttgtca tcctgcctta 120
tactgggcta acaatgagat aaaataaaaa tacctttgaa tactcttttc cctttcatgc 180
atttaaagcc atggaggaac tagaccatta gctgttgccg tcacatgctt agacaccagt 240
ttacttagcg tgttatgacc tt 262

<210> 365
<211> 300
<212> DNA
<213> Homo sapiens

<400> 365
agttggagaa cattatgctg gagagagaat ataaagaaag ggagatgttg gaaacttctc 60
aagctgctgc tctgtttctg cccaaccgca tggtgcctgg acctgactac aattcctaca 120
aaagtgccta cagccccagc ccagtggaac caccaagcaa ggacttctgt aatttttgc 180
ccacctgcct tgatttaacc atgcagtatt cagggtctgg gaatatggaa ctaatttctt 240
ctaatgtcag cgtggccaca acttatatac agtatccctt gtcctcaaga tttttagttt 300

<210> 366
<211> 300
<212> DNA
<213> Homo sapiens

<400> 366
gatgctgttg tgacatctcg gagtgaggat gatgagacaa aagaaaaaca agttcgagac 60
aagaggagaa aaacccttgt tataattgag aaaacctaca gcttactcct tgatgtggag 120
gactatgaaa gacgttatct cctaagtctg gaagaagagc gacctgccct aatggatgac 180
agaaagcaca aaatttgtag catgtatgac aacttaaggg ggaaattgcc tggacaagag 240
aggcctagtg atgaccactt tgtacagatc atgtgtatcc gaaaagggaa gagaatggtt 300

<210> 367
<211> 300
<212> DNA
<213> Homo sapiens

<400> 367
cagtcctccc cacactcaga gatctgtggg gaagctccgc ccagccacac tccttgggat 60
aatactagcc ggttctgcct gattcctttt ccccggagcc agcctagggg gcccgggact 120
cctctagtga gccttgactg ttaggtaaga gacaggaagc agacaagcca agaggttgct 180
gcagctgccc ccaggaggaa acgggcagca gggagtgtgg cccagccccc actgtacccc 240
tccaggggcc cgagcccttg ccagcccaat gacaccttga agtcaccact tttcctttct 300

<210> 368
<211> 300
<212> DNA
<213> Homo sapiens

<400> 368
attttgctgg acactcagac acaatttaga gtatttatat ataacttgaa aacagtaaca 60
tttccaaaaa ccgatgaacc ccaccctgtc ccaaggaatg attggtatgt atgtgaagtt 120
cattttctga caaaaataat tacgttccac ttaggatgca caaccatgct gtcctgtaga 180
gaagtcacaa gttttgtgag aatttttaaa ctgatgatgt ttatttccat ggtaacatga 240
gtatacattt taccttctat tgtagtgatg aatcacaatt agtctttttt tataggttgg 300

<210> 369
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 369
atgggaccaa atttaagcaa tttttgtttt tggctgaaga gacaccaaaa tattagagga 60
caaatatttt tagatccatt taaggagttt tgaagtgcct aagatgacct atttgtcagt 120
ggtgcaaaat taattctctt ctttttgag ttgtagtgaa tatgcaattt ctgtgttccc 180
cttccaccct ttaaatctta ggatgacaag ttataaagaa agaagatctt tgtctgggac 240
ccccaaaggg atcctttctc taangnctct gacagagggt ccaggaccag acct 294

<210> 370
<211> 241
<212> DNA
<213> Homo sapiens

<400> 370
cacactccag gctgagaaag agtaattagg aggcctgagg aggggcccga ggaaaggctg 60
ttggggtggg ctggggttgg tacccgagcg ccttcccctc acctcaacca gagaagagca 120
tccggttgct ttttaaagct tttagcctgc cctagcaagg acaaagcatg ttagattaga 180
gatgcttctg ctgatcgcag gggttcttat ttgaaaacat ctatgatggg ggaggtgtgt 240
g 241

<210> 371
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 371
ccaagtcgca gggagcttgt ggccctttgg tgtttattgc agcagcttta gttctgcagt 60
ggaggtgggc tggagcaggg gacgaggtct tgggagtctg tgaggccact ctggccgagg 120
gtgtgggttt gcttcctcag ctgaagggat acatggaaac ccacctttgc atagttcagt 180
aggggttacg gtgtggttca tggaagccat ttctgtgggt tgnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nntnntnntn ncncagaatn atgagntcaa nanannagcn tgatatg 297

<210> 372
<211> 300
<212> DNA
<213> Homo sapiens

<400> 372
gttttttggt gaacactgat tttattggtg tcttagatcc ctagtctacc caaataattt 60
taacagtact gtttttttcta atcctgaagt ctgatattta tgactcatta gcaggaatca 120
aaactagtga tcagtagaac actttcaaaa taaaaatttg gaatgcagac ttttatgaaa 180
atttaaaagt gctccttaac agaatatcat gggttttcct ataaaacttc tttaagtatt 240

gtaattccag tctgccccaa cttaaaaaaa aattcttatt aatatgtcag tcattaattg 300

<210> 373
<211> 300
<212> DNA
<213> Homo sapiens

<400> 373
gtcaagttca agtcacacag gtttgctgac tgcgccatat tgttgctgac acaactggag 60
actggactta ggaatgtttt tgccacactt aacagatgtc caaaaagact cctgactgct 120
gagtcaacag ctctttatac cacctttgat caaatattgg caaaacactt gaatgatggt 180
aaaatcaatc agcttcctct tttccttgga gagcctgcta tggaatttct ctgggatttc 240
ctgaaccatc aggagggtcc ccgcataaga gatcatttaa gccacgggga gatcaactta 300

<210> 374
<211> 300
<212> DNA
<213> Homo sapiens

<400> 374
gaggcctggg tgcggaaact gaagtggcca gaactgccta aattcagtca gctgaagtgg 60
aaggccctgt acagtgaccc taaatctttg gaaacatctg cttttgtcaa gtcctacaag 120
aaccttgctt tctactggat tctgaaagct ggtcatatgg ttccttctga ccaaggggac 180
atggctctga agatgatgag actggtttgg ccttggggca cagagctgag ctgaggccgc 240
tgaagctgta ggaagcgcca ttcttccctg tatctaactg gggctgtgat caagaaggtt 300

<210> 375
<211> 300
<212> DNA
<213> Homo sapiens

<400> 375
ggaggcaggg atcaacgtga cggtgtataa tggacagctg gatctcatcg tagataccat 60
gggtcaggag gcctgggtgc ggaaactgaa gtggccagaa ctgcctaaat tcagtcagct 120
gaagtggaag gccctgtaca gtgaccctaa atctttggaa acatctgctt ttgtcaagtc 180
ctacaagaac cttgctttct actggattct gaaagctggt catatggttc cttctgacca 240
aggggacatg gctctgaaga tgatgagact ggtgactcag caagaatacg atggatgggg 300

<210> 376
<211> 300
<212> DNA
<213> Homo sapiens

<400> 376
ggaggcaggg atcaacgtga cggtgtataa tggacagctg gatctcatcg tagataccat 60
gggtcaggag gcctgggtgc ggaaactgaa gtggccagaa ctgcctaaat tcagtcagct 120
gaagtggaag gccctgtaca gtgaccctaa atctttggaa acatctgctt ttgtcaagtc 180
ctacaagaac cttgctttct actggattct gaaagctggt catatggttc cttctgacca 240
aggggacatg gctctgaaga tgatgagact ggtgactcag caagaatagg atggatgggg 300

<210> 377
<211> 300
<212> DNA
<213> Homo sapiens

<400> 377

gatagcttaa agcaagttta caagtaatta aaatggacag tttgccatta aagattttta 60
atagtggttt tgcagtgtac tggcttgaat tttctggact tgagttaact gaaggagagc 120
ctcaaactat agtaacttca tttttaaaag ttactagaat ttggtatcct gatttatatt 180
gcagtgtttc aaaggtgtca ctgtcagaca aatagaaaca ctgccaactt ggtgtaactt 240
aagctttcat ttaactaaaa cattcttttc ttgcaaaact tatttttcat gatcattttt 300

<210> 378
<211> 300
<212> DNA
<213> Homo sapiens

<400> 378
ataacacaca tcacagtatg ctctcagaaa tttctttatt tgaaccctat accaatatct 60
gttgatcaat gaccattttt gctcagcatg gagaaacagt gccctgcatg aagggtagtg 120
agaataaaaa ggatcttacc acctttatca tgagggtggc tttgctctct ccattccaag 180
ttgttctctg ttctagaaag cagatgtagt agacatctac tgtttttgcc taaacagaat 240
ccctttttcc tttttttggt aaaagtactc atccctaata ttacattgtt ctggaaggac 300

<210> 379
<211> 300
<212> DNA
<213> Homo sapiens

<400> 379
ttagtgtact ggatgtcagg tccctcaaag attccttgga ccattttcat gtgaatgaag 60
aataaatcaa ttgtctttca ttgaatcaca cggacaacct gctggcttct gctgacgact 120
ctggggcaat caaaatccta gacttggaaa acaagaaagt tatcagatcc ttgaagagac 180
attccaatat ctgctcctca gtggcttttc ggcctcagag gcctcagagc ctggtgtcat 240
gtggactgga tatgcacgtg atgctgtgga gtcttcaaaa agcccgacca ctctggatta 300

<210> 380
<211> 300
<212> DNA
<213> Homo sapiens

<400> 380
ttagtgtact ggatgtcagg tccctcaaag attccttgga ccattttcat gtgaatgaag 60
aagaaatcaa ttgtctttca ttgaatcaaa cggaaaacct gctggcttct gctgacgact 120
ctggggcaat caaaatccta gacttggaaa acaagaaagt tatcagatcc ttgaagagac 180
attccaatat ctgctcctca gtggcttttc ggcctcagag gcctcagagc ctggtgtcat 240
gtggactgga tatgcaggtg atgctgtgga gtcttcaaaa agcccgacca ctctggatta 300

<210> 381
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 381
gaactgctgg ccgagcccgc tgggagtcta gaaagagaaa atctgtttct agacctcagt 60
tattttccca tttttggttg ttttgaagca gtaacatttt tctcagtgca catgcaattt 120
gggttttaga gaagatggcc accagctggc ttcctagata ttttaaactt ttgttcttta 180

atatgctgtc catggctgag tttattagta catgggctta gcgaccacac aaatattcta 240
ttacgaaact gttncagaaa taaattngca ctgtncattc ntctggcctc gctggt 296

<210> 382
<211> 300
<212> DNA
<213> Homo sapiens

<400> 382
gccaacttca attccctttt agtcatctac ttcctactaa cagctgtaac taggatgagt 60
caaaatcaat tgcctatgct caccagatcc ctgataaatt cccatgaagc cacctgaaag 120
gtggtaaaag caaggtaaaa cgtggtgaaa gcaaggtaaa gaaggtagat ttcacaattt 180
tgtttttaa aaaggggaat cttccctgaa ttctttgagg tactaagtac gtggtttaat 240
gcatattttc attcttgtta gcagtttaaa aataatgttt cagagactgt attcacgatt 300

<210> 383
<211> 300
<212> DNA
<213> Homo sapiens

<400> 383
gataggccac attccagtaa gaactcaatt tgactcccaa atttgcagaa acaaaacgtg 60
atttaaaagc tgagcttttt atcagaaagc ttttttgatg ttttaagtgt tatgtgactt 120
gttgaacttt ttaaaaagtg ctacttttaa aatcccagat actctgaatt ttagaaaaca 180
aactaattct gattgtgtcg tgcccaagta ccctttttt ttaatgaata gggaccaatg 240
ccacattgct ttttatattc ctttctttat taatgatgcc aaaaccaaaa gtagctgtgt 300

<210> 384
<211> 300
<212> DNA
<213> Homo sapiens

<400> 384
ctttagttca gataaaggaa acatccaaaa atactgagat gagtaaaatt ttattcaaag 60
taggttcctg ctttgtcttg atctcaatcc attctaactc ctgatgtcat ttaccgtgtg 120
agatcttagt acaatcatga aaagaatatg agcatttatc aaaactctct gacatctgta 180
tgtttagaaa tgaacttaca cagcaaaata tgatttcctt gcacttattt aatttttcta 240
acttcaattt ctacctatgt gtctctgcca gtttgacctg attcagacac ccagaacttg 300

<210> 385
<211> 300
<212> DNA
<213> Homo sapiens

<400> 385
cctttccaag cccactgctc agccttagag gaaagtgtgg atttgaaatt tcctcatgga 60
attgatggag gtttttaggt agattcatag aatataacgt atctaccaaa gattccgttt 120
tcaagggatc tagaagatgt tagtgcacac gcaaaaacca gacaaacgtc tctacacgga 180
taaaggcaca tatacaatta tgcacacagg gaagggcata cactctattg tgggcacaga 240
atgacatgca attatggaca cacaaaaaca catgcaccca attatggaca ccaaaatata 300

<210> 386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 386
tgctcttggg tgcttcctga ggtgtggttg cacagggtgg ttattcctga atgcaagggc 60
ttactatgat tttctcttag tgcctctcat ttctgatgct ttctgtccta tgaggtcagt 120
ctacttacta gttagtattc tatattaata agtatgccaa atgacttaac tcctccagaa 180
atgttattcg ttaaaagatg agatgtgctg agacaagagg atcgcttgag tccggaaggt 240
tgaggctgtt gtgtgctata attgggcctg tgaatagcca ctctgttcca gcctgggcaa 300

<210> 387
<211> 300
<212> DNA
<213> Homo sapiens

<400> 387
gccagtccct ggacagctac gacgccatga atatcttgcc caagaagagc tggcacgtcc 60
ggaacaagga caatgtcgcc cgcgtgcggc gtgacgaggc ccaggcccgg gaggaggaga 120
aggagcgtga gcggagggtg ctgctggctc agcaagaggc ccgtacagaa ttcctacgga 180
agaaagccag acatcagaac tcactgcctg agcttgaagc agcagaggcg ggagccccag 240
gttctggccc tgtggacctg tttcgggagc tgctggagga agggaaagga gtgatcagag 300

<210> 388
<211> 300
<212> DNA
<213> Homo sapiens

<400> 388
gagacagcag cccccaggga atgaagctga tgccagagtc agacccgagg aggaagagga 60
gccactgatg gagatgcggc tccgggatgc gcctcagcac ttctatgcag cactgctgca 120
gctgggcctc aagtacctct ttatccttgg tattcagatt ctggcctgtg ccttggcagc 180
ctccatcctt cgcaggcatc tcatggtctg gaaagtgttt gcccctaagt tcatatttga 240
ggctgtgggc ttcattgtga gcagcgtggg acttctcctg ggcatagctt tggtgatgag 300

<210> 389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 389
ctaggatgtc tggcacctta ccgaaggcta ggaataggaa ctaaaatgtt aaatcatgtc 60
ttaaacatct gtgaaaaaga tggtactttt gacaacattt atctgcatgt ccagatcagc 120
aatgagtcgg caattgactt ctacaggaag tttggctttg agattattga gacaaagaag 180
aactactata agaggataga gcccgcagat gctcatgtgc tgcagaaaaa cctcaaagtt 240
ccttctggtt agaatgcaga tgtgcaaaag acagacaact gaacaaatta caaatgaact 300

<210> 390
<211> 300
<212> DNA
<213> Homo sapiens

<400> 390
cctctctgtc ataatgtacc caaaatagag taagaatatc atgcttttca gtaatactcc 60
agtgaatgag gctaagagta ccatttttgt tcttataaaa gaatttttt ggacatgaat 120
acaaagatgt caggttacca aatcatttgc tagtagatcc taacaatatc acctatagga 180
aactgaacgt agcctttaaa cattaagtga tgataatgga tttggccggg cgcggttgcc 240
tataatccca acactgagag gctgaggtgg gtggatcact tgaggccagg acaggaccag 300

<210> 391

<211> 300
<212> DNA
<213> Homo sapiens

<400> 391
attccaaagg tttcaaagaa cttggtcata aatatgataa tgagaagaca aagtatttat 60
attaaaacag tttagtagcc ttcagttttg tgaaaatagt tttcagcaca gaaactgact 120
tctttagaca aagttttaac caatgatggt gtttgcttct aggatataca ctttaaaaga 180
actcactgtc ccagtggtgg tcattgatgg cctttagtaa attggagctg cttaatcata 240
ttgatatcta atttctttta accacaatga attgtcctta attaccaaca gtgaagcact 300

<210> 392
<211> 300
<212> DNA
<213> Homo sapiens

<400> 392
gttggccgga gatgtctttt tatttttgtg ctgtaaaatt ctcttacagc aaaaataggc 60
tttagaaagg tcttctactg tcttcagcaa ccatctcatc ttccagcttc acctgattgt 120
ccagttatca tacatttgac tttcaaatgt atgaaccagc atgtacccca tggatttaat 180
cttatctacc ccgtggattc aatcttctta tcagaaggtt cttttatgtc aaaaaacctg 240
ctgtcaaggc ttgaagagcc tacacactca atggcaaaca cagcaccgag tctgctctga 300

<210> 393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 393
gcctgctgct tcatgccgcc ggcgtcctgc tccacgtctc tgtgctgctg ggccctgcac 60
tgtcggccct gctgcgagcc cacacgcccc tccacatggc tgccctcctc ctgcttccct 120
ggctcatgtt gctcacaggc agagtgtctc tggcacagtt tgccttggcc ttcgtgacgg 180
acacgtgcgt ggcgggtgcg ctgctgtgcg gggctgggct gctcttccat gggatgctgc 240
tgctgcgggg ccagaccaca tgggagtggg ctcggggcca gcactcctat gacctgggtc 300

<210> 394
<211> 300
<212> DNA
<213> Homo sapiens

<400> 394
ctgcgacccc tcggaccagt gcccgcccca ggcccgctgg agcagcctgt ggcacgtggg 60
gctcatcctg ctggcggtcc tcctgcttct gctgtgtggt gtcacagctg gttgtgtccg 120
gttctgctgc ctccggaagc aggcacaggc ccagccacat ctgccaccag cacggcagcc 180
ctgcgacgtg gcagtcatcc ctatggacag tgacagccct gtacacagca ctgtgacctc 240
ctacagctcc gtgcagtacc cactgggcat gcggttgccc ctgccctttg gggagctgga 300

<210> 395
<211> 300
<212> DNA
<213> Homo sapiens

<400> 395
gtggttgtac atcccacttg cccccacacg gagactgact ctaaaaccct tcatccaatg 60
gtgctaaccc ccggctctcc cctgccccac ctcacccacc cagagaagca cagaccccgc 120
caggggcagg ggcccaccgc acacccttgt cccgggcctg tctgggactg gccttcccgg 180

ctcagccagt gaggctcaga agggacacaa agagggatgg aagaaaagaa caaagagaaa 240
ctgttcctcc caccccctc cctgatgcca ggggcaccag actgattctg aggcacaaat 300

<210> 396
<211> 300
<212> DNA
<213> Homo sapiens

<400> 396
ccatcgattc ggtgtcacta tcctcataga tagagccaaa acatttctat cacaccggca 60
atttcctatg tgtcccatcc caatcaatcc tttccccttt gctggctcca aacaatgact 120
ctttcctatc ttattagaaa gattagaatt gcttttctag agttccagta atggaatcat 180
acagtgtcta agtctgtttg tggtgctgta acaaaatacc tgagactggg taatttataa 240
attataggaa attatttctc acagttctgg atgctgaaaa gtctatgatc aaggcactag 300

<210> 397
<211> 300
<212> DNA
<213> Homo sapiens

<400> 397
agactactga actctacgct taaaaattat taagatggca aatttcatct tgtttttttt 60
taacttaaaa aaactacata taagatagtt ttgcctgttt tcaggtttct tttcagtgtt 120
ttaggtattc agtatttaaa tcacaaaatt tgtgatttga acatttttt cttccttcat 180
gagattttaa gtggattgat acttgctttc cattctgtcc cgatgtctga cctttgtaat 240
gtaaagaaga acattttgtt taattgagag aagtctgctg tgttcttgtt gatagaggac 300

<210> 398
<211> 300
<212> DNA
<213> Homo sapiens

<400> 398
aaagtagtaa gacttggtat ggttggagtg taggaatgaa tattcatgaa atgtttctta 60
ttgcttttcc ttccctaatt catacaatga atgtatttgg aatacttaca tattataaaa 120
taaactatac ctcttcaaga ggtatcctgt tctgtaagat cagatgtttt tattgcaggt 180
caatataata ctgccagaga cagaaaatac ccccttatca gtcccttagt gcctctttcc 240
tgtttgtggc atggtgagaa aacccatgct gaaaagattg tactttgtga tccccctcag 300

<210> 399
<211> 300
<212> DNA
<213> Homo sapiens

<400> 399
ggaaagagaa gaatgagctt gtccgtcagc tggtagcttt cattcgtaaa agagataaaa 60
gagtgcaggc gcatcgaaaa cttgtggaag aacagaatgc agagaaggcg aggaaagccg 120
aagagatgag gcggcagcag aagctaaagc aggccaaact ggtggagcag tacagagaac 180
agagctggat gactatggcc aatttggaga aagagctcca ggagatggag gcacggtacg 240
agaaggagtt tggagatgga tcggatgaaa atgaaatgga agaacatgaa ctcaaagatg 300

<210> 400
<211> 300
<212> DNA
<213> Homo sapiens

<400> 400
gctatgttgt cgttacaaca tcaaagtgat tttacggttt ttgatgggat tattcaagtg 60
tcagaattaa ctgttcaaaa tgttctgaat catgtagata catggcaggt aactgtttat 120
gggagaaaag tacagtgctg ttacgtggca ctgtacagtc atgtgccacg taacagcgtc 180
tgggtcagtg acggacactt acctgacagc ggatccacaa tattctcgtg cagtgtgttt 240
ggaatcctcg tctgggctct cgtcgttggc cttgtagatc aagtagggga agtgagtgat 300

<210> 401
<211> 300
<212> DNA
<213> Homo sapiens

<400> 401
tttgtgtgag atttgatcat agtctaaaac tatcacgtct gagttgcctt aggatgacag 60
tgctgacacc cagtaggaag tatcccattt ttatcaggaa agtcagtcac gcgtagggat 120
ggtgaggaga cgcgtaggga tggtgaggag gggagaggag ggagacctgc tggtgccctt 180
gcaccagggt gaggcctgac tcacgctgct tccccccaca ggccctgctt tgcttgcctg 240
ctttttccag aatcgatttt gcaagcttca agattctgtt cccctcttcg cagaagtgag 300

<210> 402
<211> 300
<212> DNA
<213> Homo sapiens

<400> 402
cccccatctt cactggttat tccacttatt taaaatgtcc agaataagca aatctccata 60
tagaggaagt agattagtgg ttgcttcggg atgggaggaa tgggaagatt gaggtctttc 120
ttttgcagtg ataaaaatgt cctaaaattg actgtagcga tggtcacaca actctgaata 180
tgcttaagac cattgaatta cacactttac gttggtgaat tgtatggtat gtaaattata 240
gttcaataac atagttacaa aagataatca aaagcatgaa agcactgttg atgtggtttg 300

<210> 403
<211> 300
<212> DNA
<213> Homo sapiens

<400> 403
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aggcagacga atgaggaata aaggtcagag aaggtcagag ctgagtgacg tttggaatcc 120
accccgttta ttgtagaact gggggttcag agggcaggtg cctcagagtt gaggccacac 180
agtgaggtct ggtgggtgaa aggacccagg aacgaggcgt tcaggaaagc aggttgtcag 240
agctatgtgg agtctgtggg tggcaggggc agccgctcca gcctttgaag actttgaaag 300

<210> 404
<211> 300
<212> DNA
<213> Homo sapiens

<400> 404
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cttgtattat gcttctgata cgctataatt atttatgtac atgtttttt tcttcaatag 120
actgtgaact cttcgaatgt aggactccta gagctagata ctcaattatt ttttattaaa 180
ttgaatgact tgaaactaca gatcctttat ttaaacttcc caaatttctg ctttatctag 240
gcaactcttt aaattctttt atctcatgta gatttcaaag gctgaaataa ttgagatttt 300

<210> 405

<211> 300
<212> DNA
<213> Homo sapiens

<400> 405
aaatattttg atactgtacc cgttgctgct gccatgtgtg tgcttaaaac agggttcctt 60
tttgtagcat cagaatttgg aaaccattac ttatatcaaa ttgcacatct tggagatgat 120
gatgaagaac ctgagttttc atcagccatg cctctggaag aaggagacac attcttttt 180
cagccaagac cacttaaaaa ccttgtgctg gttgatgagt tggacagcct ctctcccatt 240
ctgttttgcc agatagctga tctggccaat gaagatactc cacagttgta tgtggcctgt 300

<210> 406
<211> 300
<212> DNA
<213> Homo sapiens

<400> 406
cgtctcaaaa aaaaaaagta ttttacccat ccacaggcag cagacaagga agtaccttct 60
gtgactgtct ggcaaggtca aaggcatcag ggaaggtaaa atactgaaac tatattttta 120
aaaataaaag tattcccttt tgagtgtgaa ttaggaatca atgccccttc tcactacttt 180
tgtgaaaaaa atcacagttc ctgcagcaag tctatgcctg ggtaacaacc aacccacaaa 240
atccaagagg aggtcccct ctcccgcctc tgtgaggctt gaggagcagt atgtatctgg 300

<210> 407
<211> 300
<212> DNA
<213> Homo sapiens

<400> 407
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agtcttccag ttctggagtt ttgtggaaac cttggacagc cccaccatgg aggcctacgt 120
gactgagacc gctgaggagg tgctactggt gcggaatctg aactcggatg atcaggctgt 180
tgtgctgaag gccctgagat tggcgcccga ggggcgtctg cgaagggacg ggctgcgggc 240
cctcagctcc ctgctcgtcc atggcaacaa caaggtcatg gctgctgtca gcacccagct 300

<210> 408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 408
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taaggttgca gaagtagaag cacaagattt gacagctcat tagatattaa agaagaccaa 120
tgaatcagga gatggtaatg ccaagattta gacccgctgg aacgatgatg agttggtggt 180
ggtgagagta agtagtgagc ataatgatat gttgaaatca gtaggaagat tgtgtttgag 240
gaaaatataa ggtatccgtc cattcattct ttatttattc ctgttaatct ttaaaaagct 300

<210> 409
<211> 300
<212> DNA
<213> Homo sapiens

<400> 409
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tctaccttct caaacccccc agccggcaca tcacacaccg gacaccagga cccaagccca 120
gcagacacag gatctgctaa cgcagctggc agctgaggtg gctatcgatg aaagctggaa 180

aggaggaggc ccagtgaccc tccaggacta tcgcctccca gacagtgatg acgacgagga 240
tgaggagaca gccatccaaa gagtcctgca gcagctcact gaagaagctg ccctggatga 300

<210> 410
<211> 300
<212> DNA
<213> Homo sapiens

<400> 410
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accaaaatcc aagctaggat ggggacagag gcctggagac aacctgctgg cctccttcca 120
ttaaagccat tacagtgtca ccacaggatt gtaagaatta caaatgcgtt ttccagagtc 180
cccagagaaa aaggagtctg gcagttagaa gagtaaagtg catctgtcaa caaaagaaat 240
accaaagatg agactacagc agcgacttgt cacctcttcc gtgttgctac tgcctgagaa 300

<210> 411
<211> 300
<212> DNA
<213> Homo sapiens

<400> 411
gccccgctcc atgagcagtg actccccagc tcctcctggc accagtcccc agggctctcc 60
tgttggtagt tcctgctttt cttcttggaa attcctcgtg gacctcgaga tctttaccct 120
aaaatagttc tgttgaattt caccctggca atgtaaattg atagcttatc ttcacagatg 180
ccagacaatg gacaactcac catcagtcct ctgctcacct gagacaaatg catgtctgat 240
tgcttcctct gccctattgt ttatgtgaaa atgcagattc actgagccag actaaggcat 300

<210> 412
<211> 300
<212> DNA
<213> Homo sapiens

<400> 412
cagccttggt gacagagcga gaccctgtct ctaaaaaata aataaataaa atattgtgag 60
tctctgatgg ggagcagtat tgcatggtgg ttgagaactg aggctctgat gttagaactg 120
gattctgact taacccactg tttgcccaca tcttgagcct tggtttccct atctgtaaaa 180
tggcagtatt ctcgggctgg ctgaggaaag gaaatgaggc caggcgcggt ggctcaggcc 240
tgtaatccca gcactttggc aggctgaggc atgtggatga tttgaggcca cgagtttgag 300

<210> 413
<211> 300
<212> DNA
<213> Homo sapiens

<400> 413
cccaaatgga cactttgctt gcaggtgatg ctgccgaatg aatacccagg tacagctcca 60
cctatctacc agttgaatgc tccttggctt aaagggcaag aacgtgcgga tttatcaaat 120
agccttgagg aaatatatat tcagaatatc ggtgaaagta ttctttacct gtgggtggag 180
aaaataagag atgttcttat acaaaaatct cagatgacag aaccaggccc agatgtaaag 240
aagaaaactg aagaggaaga tgttgaatgt gaagatgatc tcattttagc atgtcagccg 300

<210> 414
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 414
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acgtccatca gtccactaga gggcatcaca acttgtttaa tgagataatc aaacatatga 120
tgtaatttta aagggtttac atttttaaaa atttaatagg gtatcagtta actaatttta 180
cttagatgga acttctgtaa gcttagtagg tatgcttaaa taaagcctgc taataaaata 240
gagattcaga ctcaatagaa tggttttaca tatgtaatat atgttttaaa cagcataaaa 300

<210> 415
<211> 300
<212> DNA
<213> Homo sapiens

<400> 415
cagagatgat agcacttcat tgactgccaa agaggatgtc agcataccca gatccacatt 60
aggagacttg gacacagttg cagggctgga aaaagaactg agtaatgcca aagaggaact 120
tgaactcatg gctaaaaaag aaagagaaag tcagatggaa ctttctgctc tacagtccat 180
gatagctgtg caggaagaag agctgcaggt gcatgctgct gatatggagt ctctgaccag 240
gaacatacag attaaagaag atctcataaa ggacctgcaa atgcaactgg ttgatcctga 300

<210> 416
<211> 300
<212> DNA
<213> Homo sapiens

<400> 416
ctcacctgga ataatgagat cttacctaac tgggaaacaa tgtggtgctc tagaaaagtt 60
cgagatttat ggtggcaggg aatccctcca agtgtgagag gcaaagtctg gagcttagcc 120
attggcaacg agttaaatat cacccacgag ctctttgaca tctgtcttgc ccgagccaag 180
gagaggtggc ggtcccttag cacaggaggc tctgaagtgg agaacgaaga tgctggtttt 240
tcagcagcag acagagaagc cagtctggag cttattaaac tggacatttc tagaacattt 300

<210> 417
<211> 300
<212> DNA
<213> Homo sapiens

<400> 417
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ttcccagtgt tgactactct gcctggcctc tctcttctgt cttaatactt actgtgttaa 120
agagctttgg ttgagtatag attctcctag gcttaccgta gagttacatc ctgataagcc 180
cattataagt tgaaaatgtt tttagccgtg gtggctcatg cctgtgttcc cagaactttg 240
ggaaggtgag gtgggcgatc acttgaggcc aggagttcga gaccagcctg ggcgacagag 300

<210> 418
<211> 300
<212> DNA
<213> Homo sapiens

<400> 418
ccaaatccct ggtttcctgt cccttagtgg tgtggccgtg ggcaaacgcc ttaacttccg 60
tgagctttga cagtctgtct gggaggcagg gctcaggcat ccctggcctc ttggggttgg 120

gtgagaggga gacagaggtt tgtgaagcgc tttgcacacc tgggcatctg gtcagtgttc 180
agtaaatgcc agctgggctc agtggtgcac tcctgtaatc ccagcacttt aggaggctga 240
gtggggagga tcacttgaag ccacgagttc agggctcagc ctgggcaaca gagaaagaca 300

<210> 419
<211> 300
<212> DNA
<213> Homo sapiens

<400> 419
gagacgtgca gctgtccaag gctctgtcct atgccctgcg ccatggggcc ttgaagctgg 60
ggcttcccat gggagctgat ggcttcgtgc ccctgggcac cctcctgcag ttgccccagt 120
tccgcggctt ctctgctgaa gatgtgcagc gcgtggtgga caccaatagg aagcagcggt 180
tcgccctgca gctgggggat cccagcactg gccttctcat ccgggccaac cagggccatt 240
ccctgcaggt acctaagttg gagctgatgc ccctggagac accgcaggcc ctgccccga 300

<210> 420
<211> 300
<212> DNA
<213> Homo sapiens

<400> 420
ggaagcagca gggtccaggg gtagaagggc tcccagaccc cgagaacagg accgagacgt 60
gcagctgtcc aaggctctgt cctatgccct gcgccatggg gccttgaagc tggggcttcc 120
catgggagct gatggcttcg tgcccctggg caccctcctg cagttgcccc agttccgcgg 180
cttctctgct gaagatgtgc agcgcgtggt ggacaccaat aggaagcagc ggttcgccct 240
gcagctgggg gatcccagca ctggccttct catccgggcc aaccagggcc attccctgca 300

<210> 421
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 421
accaagagaa cgcggtcaga aggaggtgga actggggagt cctctcaggg agggacangc 60
aaaagactca aagtagatgg acagaaaaac tgctgtgagg aggggaaaga ggagcagcag 120
ggatgtgcag gggacggtgg ggaagacagg gtagaagaga tggttatgga ggttggagag 180
atggtgcagg actgggccat gcanagccct gggcagccag gggacctgcc cctgaccact 240
ggaaagcatg gnnccctgg anaagagggg ctagtncatc actgcagccc tggct 295

<210> 422
<211> 300
<212> DNA
<213> Homo sapiens

<400> 422
gtgggaactt cccctactcc ctggatgtgt gtacctagca cacttccttc tcccacccct 60
ttttccagtt ggatttgttt ttctgttctc ttctgtcctg tcttatactg caactgtgtc 120
tcctagggga cagatggcct tctttgtcat cttcactctc caccccaga gaggagtcag 180
agccataact caatcactca gcccctccaa agatagttga tgtgtgataa tctcataatg 240
ttgagaaccc tgatgagata cattgtcttc ctctccctac aatgcctctg gggccaaggc 300

<210> 423
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 423
cttatcctgg tggatgtgct attttcttna aggagtatga agccctttc tanctatcnt 60
cccagtggag cggagttctc agtgnncagt tactccatag tgcaatccat attaataggc 120
ttcttctctt aagtcttcat ctctttcttt gcttaattac tgaaccgtaa attcccttca 180
gagaaattta aatgctggta tttggacttt atacatgata ctttttgtag tttcttttaa 240
tttttgaaag atgaactgct tcctttt 267

<210> 424
<211> 300
<212> DNA
<213> Homo sapiens

<400> 424
cctggtttcc tgtcccttag tggtgtggcc gtgggcaaac gccttaactt ccgtgagctt 60
tgacagtctg tctgggaggc agggctcagg catccctggc ctcttggggt tgggtgagag 120
ggagacagag gtttgtgaag cgctttgcac acctgggcat ctggtcagtg ttcagtaaat 180
gccagctggg ctcagtggtg cactcctgta atcccagcac tttaggaggc tgagtgggga 240
ggatcacttg aagccacgag ttcagggctc agcctgggca acagagaaag acacttgcct 300

<210> 425
<211> 300
<212> DNA
<213> Homo sapiens

<400> 425
gggaattgct cttctctccg aggctctgtt tcttgtagct atcaggaagt ggcagctctt 60
tgaataagtg ccttttcctc tcccatctgc caccttttgtc ttccctctgg acatatcctg 120
ggggttcagg agcttccagc tgtgcagttg gccacaggac taggggagcc cccttccctt 180
ccagaccagt gtccacatac ccttccctgt gcccacacac cttcccctgt gcccgcactg 240
tcacccacca caagcctact ccagcaggag caccacagcc ttctgcggtc acgctgtgca 300

<210> 426
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 426
atttcaggac cagtgagaaa tagtcaattt aggatctaat tatttgcttt gtaggtttat 60
gtattgccca tttggggtag atttaggaaa atattttcta aatccaagag ttcaaaacca 120
ggctggacaa catagcaaga ccatatctct accaaaaaaa aaaaaaaaan nnnnnnnnnn 180
nnnnnnnnnn tngccccngn ancccnant tnntgggngg gntgnggnng gnggncnntt 240

ggnccnnngg gggtnagggn tgcagggncc ctnggcc 277

<210> 427
<211> 300
<212> DNA
<213> Homo sapiens

<400> 427
ctgatctaat gagctttatg atggagttga agatgctttt ggaagttgcc ttaaagaata 60
gacaagagct gtatgcacta cctcctcctc cccagttcta ctcaagcctt attgaagaga 120
taggaactct tggttgggat aattttaaaa tatttttctt gctggcagcc accagaaact 180
ggaagaggca aggaatagat tctctcctag agcctccaga gggagcacat ctttgctgac 240
accttgattt ttgcccagtg aacagatgtg gaacccctgg cctccagaac tagagagaat 300

<210> 428
<211> 300
<212> DNA
<213> Homo sapiens

<400> 428
tttctataca atttttcctt ctgatccaga gacacggaaa aacaaagggc aagatggaaa 60
taagggatga gaaggtctat gtggaaaaac agttacaact ggagtggtaa ctgcaaaaac 120
caagcagctt catgtgatcg ttaggacaga agaaatttct cctttgtagc ctagagcaat 180
attctcaaaa tttaatgcgc atgttaatca tttggggatc ttttattcat tttttcatgt 240
ggggatcttt taaaaatgca aattctgatt tggtaagtct ggagtaggtc ctgagcttct 300

<210> 429
<211> 300
<212> DNA
<213> Homo sapiens

<400> 429
gaatcatcga aggttgagac cgtgtctagt tacatagtta taaataccca tctatgtact 60
gatgccttct aaatgtctat ctccagtatg gtcttttcct ttaagctcta gatccattga 120
caccctcacc atctctaaaa ggcatttcaa actgaacaca tctgatacag aacttttcat 180
ttccttccca actttgccca cgccagcctg ctcctccttc acgctttcca cttagtatat 240
gatcccacta ttcactcagt ctctgaagct taaaacctag gattcatcct tgactactgt 300

<210> 430
<211> 300
<212> DNA
<213> Homo sapiens

<400> 430
caatcagtga taagctatat tttgagtttt aaaattgttt ttacaattac ccctgttttg 60
agtatatatc ttgtcaaatc attctaataa atatttgctg ataactgtgt ggaatacata 120
aatggtaggt agaaatttgg aagaatcact acatattttc agttatcatt ctctgtgtaa 180
attcatgctt taaaaatatg agaagttaaa gtgccttgga tattatttta ttttctatat 240
tttgtcccat attgtattgt ctaattttca ttgaaaccac ataacatgct tgaataggca 300

<210> 431
<211> 300
<212> DNA
<213> Homo sapiens

<400> 431

tggctggtat tataggtgca caccaccaca cccaactagt tttttgtgtt tttagtagag 60
atggggtttc atgatgttgg ccaagctggt ctcgagctcc tgaccccagg tgatccaccc 120
acctcggcct cccagggtgc tggaattata ggcgtgagcc actgcgcacg gcctggggag 180
gttttatttc ttgacaaagg tatttgatac tcgtgcagac cctggagggt ctcactggag 240
agacaacatt taggctgaga tctgattaac aggaggcagc tgcagtgcag aggtcaaaag 300

<210> 432
<211> 300
<212> DNA
<213> Homo sapiens

<400> 432
cccaggctga caggggctct gccgtcttta acatgtgact ttctaggtca gtcatctggt 60
cattgctttt ccacacagca gataagacaa aggagtggaa atagaggggt agagattttc 120
tcttaaacgt gtgaggctgg agtggtatgc ttcattggca agaacctggt cctagcctgc 180
ctagctgaaa ggaggggagt cagggagatg cactttgcag ccaaaattct gttgccaaga 240
aggggaaagt agatttggtt gattttgatc tgtgtttgct gctgtgttac tctataattc 300

<210> 433
<211> 300
<212> DNA
<213> Homo sapiens

<400> 433
cacctagctt tatcatttgt aaaatgagtc tctaggtaca gccctttctg gggttgagac 60
agagtttctg aggagtaaaa gccatgtcat tgtggaaaca ggcagctatt ctcacagctg 120
gcatgagccc actactcccc tataatcagt gctgataaac tgctctcatt tgttggactt 180
cagactttcc tgacccactt tgaatggggg ccactttgaa tggaaacttt ctatgtattg 240
aattaaaaga tctccaagat aaatggttaa atgaaaaagc acagtgcaaa agggcatatg 300

<210> 434
<211> 300
<212> DNA
<213> Homo sapiens

<400> 434
aagataaaag agataaggaa gaaaaagaaa gcagcagaga aaaaagggag tggtctcgta 60
gcccaagaag acgcaaatcc agatctcctt cccctagaag acgatcttcc cctgtcagga 120
gagagagaaa gcgcagtcat tctcgatctc cccgtcacag aaccaagagc cggagtcctt 180
cccctgctcc agaaaagaag gaaaaaactc cagagctccc agaaccttca gtgaaagtaa 240
aagaaccttc agtacaagag gctacttcta ctagtgacat tctgaaagtt cccaaacctg 300

<210> 435
<211> 300
<212> DNA
<213> Homo sapiens

<400> 435
agagtcaagg aaaagtgcaa gatagatcta tcccatttct tcctccacct ggagattcct 60
gagctatgct cagcctctgt ggggcaggga agactgggga cattttagt caggatgctg 120
agaagtaatt cctgctgggg ccaggcatct tttcagggct gctgtgatgc caacaaagaa 180
ggggccccag gcccatcctt actcctggtc ccaaaaagga tccaagtggg atgggaagct 240
ggcagcacca acccacttgt agattaacaa caacaacaaa acaccaacaa ataaaaaaag 300

<210> 436
<211> 300

<212> DNA
<213> Homo sapiens

<400> 436
aagaaaggct gcctttgagt tgaccaacca tgttgaggtg gtagatgggt gctaaactca 60
ctgtagtctg agtaattgac ttccacaagt catccccact gttgagcctt tcaaaatgaa 120
gtctcagtat atttacaaat taatggacat cctctctggg gattagtcat attctaattc 180
aacaaagaca ttgtttgaag tttgtttttg tttgctaaat gaactaaaaa ttatgagatt 240
tgcacctaaa ggtactgagg taaaggagag ccaaaagtgg ggtagtcaat ctacttattc 300

<210> 437
<211> 300
<212> DNA
<213> Homo sapiens

<400> 437
accaggaata atctagggct cattagagat gtcaaagatc tgttctagtt tcttaaccta 60
aaacaagagt gttttagttc cattttatag gcggggagtc tgagccaaac atgttatgtc 120
actttccaag tctccatagc acagaagtct tctgtctccc catcctgact ttcccagctc 180
atagggactg tcaaaggcag cagctctggc cggctgtgat gcctcatgcc tgtaatccca 240
gtaatttggg aggctgaggc aggaggatca tttgaaccca ggggttcaaa accagcctga 300

<210> 438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 438
gcagaacatt tctcaagaat cctcttgagc cagtaatcaa tcctgtctca aaaaatgttc 60
tttgccattt cctagatact gcacaaaagt ggccatgtcg acatttgtcc acccaccctc 120
caataagctg gagcgacaaa gggacattcc atccctgtac ccttagtggt agccatgaca 180
cgatggccag atcatggact ccggaaagct ttctgttttt actggaaaca tagcaaacct 240
tgatttagct ccaagaaatt gagtagggaa atatttgttt tttagcaatt gtcatagtaa 300

<210> 439
<211> 300
<212> DNA
<213> Homo sapiens

<400> 439
cagaaattca aataattctt ttctgcttca atgccagcag aaggtccccc aggtagacat 60
ggagaagcac tttgttttaa ataggagggt ttcatagttg catctgaagc cacctggttc 120
tgttaaactg tatcgtgcag gttttgggtt tggcattatt catgtttctg atcaattcta 180
tgcaactctc atagttcctg ttacttttta gcattagctg ccaaatgact tcaaaaggct 240
ggggtgggtg acttgactgt gagactggat tataacatgg acaaatctta ttttgcttaa 300

<210> 440
<211> 300
<212> DNA
<213> Homo sapiens

<400> 440
tcccaggaat ctttgttgta tattaatttt tgataaccat ttgattaact ttaaaattaa 60
gtatatgtgt gtatatatac atatgtatgt ttatatacac acatgtatct gtatagtttt 120
atatatacat atatacacat agacatacag agaaccacta ctttgtaata gtgtacagtt 180
tgttttatat ctctttactt tttttgttac tattttatct ggccagcgta atagttttat 240

ttagattttt taaaattctg tagattaaag caaatgacag ttattgaact atcacaaaac 300

<210> 441
<211> 300
<212> DNA
<213> Homo sapiens

<400> 441
gtcccttgct cggggccatg gagacactgc ggccagtacg gcggcgcctc tgtctgaaga 60
aggggaagtg acctccggcc tccaggctct ggccgtggag gataccggag gcccctctgc 120
ctcggccggt aaggccgagg acgaggggga aggaggccga gaggagaccg agcgtgaggg 180
gtccgggggc gaggaggcgc agggagaagt ccccagcgct gggggagaag agcctgccga 240
ggaggactcc gaggactggt gcgtgccctg cagcgacgag gaggtggagc tgcctgcgga 300

<210> 442
<211> 300
<212> DNA
<213> Homo sapiens

<400> 442
gcttgcggct gcggggagct cccgtgggcg ctccgctggc tgtgcaggcg gccatggatt 60
ccttgcggaa aatgctgatc tcagtcgcaa tgctgggcgc aggggctggc gtgggctacg 120
cgctcctcgt tatcgtgacc ccgggagagc ggcggaagca ggaaatgcta aaggagatgc 180
cactgcagga cccaaggagc agggaggagg cggccaggac ccagcagcta ttgctggcca 240
ctctgcagga ggcagcgacc acgcaggaga acgtggcctg gaggaagaac tggatggttg 300

<210> 443
<211> 300
<212> DNA
<213> Homo sapiens

<400> 443
tttcctacat tcggaggctg ccctctgacg tcgtcaccgg ctacctggcc ctgaggaagg 60
ccacgagcat cgttccctga gccccagaaa gggagatgaa gtggaaagct gtttcaaaaa 120
cagactctgg actcatgatt ttgtttcacg gaaacaaact cgttctgctg tcaatctgaa 180
aatgccagtg ctgtgccttg gaaagaatgt ttggctttaa tttaagggtt ttttttttta 240
gtgtgtgttt tccctccaag tgtgatattt cctgctgaat taaattatac ttcagttgtt 300

<210> 444
<211> 300
<212> DNA
<213> Homo sapiens

<400> 444
ctcggagcca ccccggaaga ccatgcgcag aggggtgctg atgaccctgc tgcagcagtc 60
ggccatgacc ctgcccctgt ggatcgggaa gcctggtgac aagcccccac ccctctgtgg 120
ggccatccct gcctcaggag actacgtggc cagacctgga gacaaggtgg ctgcccgggt 180
gaaggccgtg gatggggacg agcagtggat cctggccgag gtggtcagtt acagccatgc 240
caccaacaag tatgaggtag atgacatcga tgaagaaggc aaagagagac acaccctgag 300

<210> 445
<211> 300
<212> DNA
<213> Homo sapiens

<400> 445

ggttaattcc ctgaatccta cttgaacatt gtataaattt ctctttgcat ataatacata 60
tttgtgaatg agacatattc ccaaaaaatt cttatctctg tatgtgattg gaaaagaaaa 120
gatcacattt gtatattcaa caatctttca cctatttcat aagtcatttt ttcaccctgt 180
atagtatggg aattattttt tatgttaaat agaaactgaa tgtactgggt tgaatggtgt 240
cctctccaaa attcatgtac ttcctggagc ctcagaatgt gaccttattt ggaaatactg 300

<210> 446
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 446
gnctttnaaa accatctact tgttcttttt gcaggatccc atngangtcg ggagaatgct 60
ggccacagat ggtgctgccc aacaggccca taccactcgt tccagtcaga ggtgcttggc 120
ctttggggat gatgttcgtt gttccaatca gtctcttcca atgaccagac actgccttac 180
ccatatttgt caggatacga atcaggttct cttcaagtgc tgccagggat ctgaagaggt 240
accctgcaac aaacctgttc ctgtaagcct ctctgaggat ccctgctgcc cactgcattt 300

<210> 447
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 447
gccagatcct gcaggagagc gcgatgcaga aggctgcgtt cgaggcactc caggtgagga 60
aagacctgat gcatcggcag atcaggagcc agattaagtt aatagaaact gagttattgc 120
agctgacaca gttggagtta aagatgaagn nnnnnnnnnn ngaatgccta nntgagatna 180
tttgacctgg tccttntttg natttgaccc ggnccanatc tacanggtca cttggttcat 240
ctnctggacc cctgcttntt ctgggctgng cnntnaatgc ntncgttcct tnagagaaca 300

<210> 448
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 448
gttgctgtca cttggatttc tagctttggg agcctgttcc acctactcag ctctgcattg 60
agcagtatgg gcacatgccc tgtggacagt tactggacgt taatgaactc agaggagaaa 120
agcagtgagc cacttgttct gtgtgattta tggtacttca ttgctcttcc ttcacctcta 180
gtcactttct attgctacct gccctacatt ggctcctgcc aaggtccctc tctctccctg 240
ttttcctttt ttttttttt nnnnnnnnnn nnnnnnnnnt tgcnttnncc cccaggttga 300

<210> 449
<211> 300
<212> DNA
<213> Homo sapiens

<400> 449
gccaagcctc ggcctccact gcacctgctg cggagtggca cctttgcctg caaggccctc 60
taccccatgg cccagtgtca tctcagcagg gtctttggcc actcaggagg cccttgtggt 120
gggttgctca gtctgtcctt ccctcatgag aagctactgc ttatgtccac agaccaggag 180
gagctgtcac gctggtacca cagtctgact tgggctatca gcagccagaa aaactagagg 240
aatcttatag attccagaac tcaggatacc tcagggatag gtcacagcca agagtacaaa 300

<210> 450
<211> 300
<212> DNA
<213> Homo sapiens

<400> 450
gccaagcctc ggcctccact gcacctgctg cggagtggca cctttgcctg caagtcccgg 60
taccccatgg cccagtgtca tctcagcagg gtctttggcc actcaggagg cccttgtggt 120
gggttgctca gtctgtcctt ccctcatgag aagctactgc ttatgtccac agaccaggag 180
gagctgtcac gctggtacca cagtctgact tgggctatca tcagccagaa aaactagagg 240
aatcttatag attccagaac tcaggatacc tcagggatag gtcacagcca agagtacaaa 300

<210> 451
<211> 300
<212> DNA
<213> Homo sapiens

<400> 451
ccattgttag catcgtacac gattgtgatt tttatgtcaa aagaagccaa aacttgcaat 60
actattttta gcagacaaaa aaaagaacta agtataaaat gtataaatat ttttgacttg 120
aacatttgga tggcactggg tgcaagtaga gcatccatcc ttcggatgga atgtttggaa 180
aaaagagact tttaaaaagg agacggttgt tttaaagagt ctgtttaggg gttaaagtac 240
tgtaactcac gactgttaaa aaataaattt tcctgtgctg taaaggaagg tttcacagta 300

<210> 452
<211> 300
<212> DNA
<213> Homo sapiens

<400> 452
gcaggatgtg atgtcaccga gatgcagagg atactcagtc aaccaacatt tactgagcat 60
ctacttcgtg ccgtatgtct tgtcaacgga aaggggtccc tatccagacc ccaagagagc 120
attcttggat ctcttgcaag aaagaatttg aggcgaatcc atagagtaag caaggcaagt 180
tacttctata tagaagggtg caccccttaca gatcaaacaa tgcttagtga tgtgtgtcag 240
acctctgagc ccaagcaaag ccatcatatc ccctgtgacc tgcatgtata catccagatg 300

<210> 453
<211> 300
<212> DNA
<213> Homo sapiens

<400> 453
cctgaggtca catgtggatt tggccagagc cttcaggagg tggaggccgg tgaggtcagg 60
agcccagctc tccaggggggc ttctgccctg actgggaagg gtgcctggct ccctaaaaca 120

atgtcaaagc cagtcctgct gttctctgtt gccaggggc aggtctgggc ctgggccaac 180
cacgtttgtt atcatggctg ctgccttctg gacagctgcc agctctgcct tgagaggttg 240
tgggacctct ggatccagct gacctgacag gtcatctact cagggaggag ccctgtgctc 300

<210> 454
<211> 300
<212> DNA
<213> Homo sapiens

<400> 454
cacctcctag gttcaagcga ttctcctgcc tcagcctccc aagtagctgg gactataggc 60
atgggccacc actcctggct aactttcgta tttttagtac agatagggat tcaccatgtt 120
ggccaggctg gtcttgaact cctgacctca ggtgatctgc ccgcttcggc ttcccaaagt 180
gctgggatta cagttgtgag ccactgcacc cagccaggaa tgacatttca aattattcaa 240
ttttgctatc aacaccttaa tataaaacca aagaggtaag catgctggtt actatagaac 300

<210> 455
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

<400> 455
ggggcggcca ttactgaaag cctgcacatg aggagtgggt tttctctctc tctcctcntc 60
aacattgagt tgatgatgat catgatgttt gagacagtgt ctcactctgt cctgcctcag 120
cctcctgagg agctaggacc acaggctcat gcctccacat cctgctacat tttttatttt 180
ttttgtagag ttggggtctt gctgnnnnnn nnnnntttat a 221

<210> 456
<211> 300
<212> DNA
<213> Homo sapiens

<400> 456
gaaggcagtt atatggtttt ttacttttttc atcaattcca taccatcggg agtaactaaa 60
tgaaacatac ttcaaagaaa gaagtcaaat taaatgactg tcattgccca ttaataaaaa 120
caacaatctg agcttaacaa aaaatttaac aaacagggaa gacagaaaga tggtatattt 180
attgcctgac tacactggca taactcactt taacaaaaat tatcacattt aataatataa 240
cctgttatag ctaaatatta aacacatatt aattagggcc aactttgaag gatttctaat 300

<210> 457
<211> 300
<212> DNA
<213> Homo sapiens

<400> 457
aagtagctgg gactacaggt gcccaccacc atacctggct aatttttgt atttttagta 60
gagacagggt ttatccatgt tggccaggct ggtctcaaac tcctgacctc aagtgatcct 120
cctgcctcgg cctcccaaag tgctgggatt acaggtgtga gccaccatgc ccagccaata 180
atttcctgat ataataaaaa tgccaatact atacaattaa atagtaaagt gataaaaaat 240
aggataacat gataaccact aattaatata tactacataa tcatcctttt cgtgagttga 300

<210> 458
<211> 300
<212> DNA
<213> Homo sapiens

<400> 458
gcagctgtgg agagaactgt acgtggtaag ggggagatat aagatgtcct gcataagtat 60
tttccctgta gattgcaaag tcatctatgg agaggaaagg tccaaaatag tcactgggga 120
gagcaggtga attagatggc caagcagggt ggatggatca tttgaggttt ggggtgacag 180
atcaactgag atccacttac acttctgaaa acgcaagaac actttagaac attaacaaca 240
cttaaagctt tttacatcat ttgtaaataa ctggtggaac ttaacaccac aaaataaagt 300

<210> 459
<211> 243
<212> DNA
<213> Homo sapiens

<400> 459
cacactccag gctgagaaag agtaattagg aggcctgagg aggggccgag gaaaggctgt 60
tggggtgtgc tggggttggt acccgagcgc cttcccctca cctcaaccag agaagagcat 120
ccggttgctt tttaaagctt ttagcctgcc ctagcaagga caaagcatgt tagattagag 180
atgcttctgc tgatcgcagg ggttcttatt tgaaaacatc tatgatgggg gaggtgtggg 240
aag 243

<210> 460
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 460
cacactccag gctgagaaag agtaattagg aggcctgagg aggggccgag gaaaggctgt 60
tggggtgtgc tggggttggt acccgagcgc cttcccctca cctcaaccag agaagagcat 120
ccggttgctt tttaaagctt ttagcctgcc ctagcaagga caaagcatgt tagattagag 180
atgcttctgc tgatcgcagg ggttcttatt tgaaaacatc tatgatgggg gaggtgtggg 240
aannnnnnnn nnnnnnnntg 260

<210> 461
<211> 300
<212> DNA
<213> Homo sapiens

<400> 461
ggcaggtcat gttttcaaga gtagccagaa gtctggattc ttatgcaaag cctgttttgt 60
tgtttgtttg tttgtttgtt tgaagtttgg cagcagattt aacattttta aagtactgtg 120
caggccaaac aaaacacgcc tgttgactgg ttgtttgcca tcctaaatat aaagtggggc 180
ccatgtgtgg tggctcacac ctgtaatccc agcattttgg gaggccaagg caggaagatc 240
acttgagccc aggaggtcga ggctgcagtg agcagtgatc gcaccaccgc actccacctg 300

<210> 462
<211> 300
<212> DNA

<213> Homo sapiens

<400> 462
gccaggtgtc attgcacatg cctgcagtcc tggctactag ggaggctgag gcaggagaat 60
tttttgcacc cagaagttca aggctgcagt gagctatgat cacaccatgg cactccagcc 120
tgggcaatag aatgagaccc agtctctaaa aaagtagaag ttaaaaaaaa agattaagaa 180
tagatgtagg gcagcagaat ttcgaacttc ttttcagcat cacaatactt taaaacagtg 240
attgtcatct gcctcaaacc cattgcctct cacataggaa atattttgaa acatattttt 300

<210> 463
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

<400> 463
gctgcactnt ggcctgcatg cactctggcc tgcatggcag aacaagaccc tgtggaagaa 60
atgaacactg gtattagact taaagattaa atttcctcaa acatgtccta tctgtagtag 120
ttcaactaga caccttttaa agtgcctcta aattcatcag atggccaaac tgtatttata 180
atccacttag gcattttgaa aaactttcaa cctgtaaaaa gttactttta tcttggattt 240
attatgaaga actttgtagt tgctttgt 268

<210> 464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 464
catgagttaa aggatatttt cagtcctgtt atcttcaatt gcagtcttta aaaaaaccca 60
ccctattgtt ctacttgtta tatgtctatt catacagtaa attcatttca aggtttatgc 120
cagtgggtat tattggtgct ttttgaagtt gaggtgaacc atccaggaag gtcttgttaa 180
tgttatgttc atctataatg gcatagggga aatatatata tttttaatat tgtaaacatt 240
tgtactgaat aacctttttt tccccccctc cgcaagcaaa actggttgaa cagcggatga 300

<210> 465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 465
attagctgct tgtggtgggg ccccaaccgc cctcgggcac tggggagctg ggctggggct 60
gctgctctgg ggtctccggg ggccacagct tggggtgagt tgaagacctc aggggatgtg 120
gaggggtctg cggggccctg gccgcacagg atggccttca gggaaggtgg tcttggggca 180
tggtgcagag caggtgaccg gagggaatcg gtgacggagc ggggccaagg gaggggtccg 240
gagggagtca gggatggagg gcagagggag tggatgtggg ggtttgagga cgtgtgacaa 300

<210> 466
<211> 300
<212> DNA
<213> Homo sapiens

<400> 466

gaaaagggag ccgcgcagcg cctacgggag tccggcggca gcagccggta ccggcaacca 60
cgggcagctc tcagggaatc tccgtcgtga ggccagaggc tccagtcccc gcgagtccag 120
atgcctgtcc agcctccaag caaagacaca gaagagatgg aagcagaggg tgattctgct 180
gctgagatga atggggagga ggaagagagt gaggaggagc ggagcggcag ccagacagag 240
tcagaagagg agagctccga gatggatgat gaggactatg agcgacgccg cagcgagtgt 300

<210> 467
<211> 300
<212> DNA
<213> Homo sapiens

<400> 467
agtggctgag tggaggcgcc cagacctggg caggcagcag gctcaggccc acaccttgtg 60
atttttgaaa ccaaagccca gaagatgatg tttacttctc tctccctggc tctgcccttc 120
ttactgcaaa ccatgctgtg ccttagggcc cttctcatag ctgttcctca tggccatgac 180
tggaacaggg atgcaacctc tttctacaca agcacagtta gttgggtgaa gtctttttt 240
tgtttgtttt agacggagtt tcactcttgt tgcccaggct ggagtgaagt ggcgtgacct 300

<210> 468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 468
ctggaaatga aattattatt ttcacccata gtagcaataa aaagaatact cagtaatacg 60
tatggaatac tacttagtca taaaaaggaa tgaaataatg gcatttgcag caacctggat 120
ggaactggag accattattc taagtgaagt aactcaggaa tggaaaacca aacgtcgtgt 180
gttctcactc ttaagtggga gctaagctgt gaggacgcaa aggcctaaga atgatacaat 240
ggactttgga gactcagggg aaagggtggg agggcggtga gggataaaac agtgcacact 300

<210> 469
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 469
gacagtacct ttccccccc tttcatggcc cattttattg tctgcctttc agtactaagt 60
atgaccgttc ctatctcaga tcttaataaa gagaaaaaaa aannnnnnnn nnnnnnaatn 120
nggccttant tgantatact ngttagcaag cgtgngngac agagagtggg gaaagctnca 180
tcattgaana tttngataaa ctttaccgac ttgagtntgg tncatntntc cctttnccta 240
aattaactag cactgnctgn aagncatttn nctgtctgac gnntntccct tccattctgc 300

<210> 470
<211> 300
<212> DNA
<213> Homo sapiens

<400> 470
actgcctcct tccacacgag tgccccttg gccaaagaag attattatca gatattagga 60
gtgcctcgaa atgccagcca gaaagagatc aagaaagcct attatcagct gctctgctca 120
gttagttttt attcccgggg taccaagcag ctgcacagtc ggtgcctggg aggcacgtag 180

aggcccctgg ctcaggcaga gggagatggt tagactcttg cagggctaaa actctaattt 240
ggaattgaat attgtggata tcttagttaa aggccatgct tacagcttag aaatgaagcc 300

<210> 471
<211> 300
<212> DNA
<213> Homo sapiens

<400> 471
ttttttaaga gataaggtct tgctatgtta tctaggctgg cctaaacttc tgggctgaag 60
tgatcctcct gtgtagctgg gactacaagc atgtgccacc aatgcctggc ttctcacact 120
gttttgtaac atagatatgt gaagatgtgt attatagaat tgtttgtaat actgtagtgt 180
tgtaggcaat gtgactgtct atagggaagt ggacaggtta tttgtggtaa atactcatgg 240
aaaacggtca agcagttaaa agcaatcaat tatggtcacc cagcaatgca gataaatctt 300

<210> 472
<211> 300
<212> DNA
<213> Homo sapiens

<400> 472
agaacaggga gaagagagga agagggagct gcaggtgcca gaagagaaca gggcggactc 60
tcaggacgaa aagagtcaaa cctttttggg aaaatcagag gaagtaactg gaaagcaaga 120
agatcatggt ataaaggaga aaggggtccc agtcagcggg caggaggcga aagagccaga 180
gagttgggat gggggcaggc tgggggcagt gggaagagcg aggagcaggg aagaggagaa 240
tgagcatcat gggccttcaa tgcccgctct gatagcccct gaggactctc ctcactgtga 300

<210> 473
<211> 300
<212> DNA
<213> Homo sapiens

<400> 473
atttgactaa atcattgttt cacaactgaa tagtcttgtt cttttagtag caatgaaatc 60
ctaagctctt gaggccattc acctgccaac ctgaccatac tgctttcaaa agtcttttct 120
catcagtaga atctattttg gtcacttcta gtcaatgaaa aatgtaaact tttaggagag 180
aatgtttcct aggactcacc cactccattc aatgttacat ataaaatagt gtgatcaatc 240
acaatgtcca tctttagaca gttggttaaa taaattatct ggtctttgaa aagaccgtgc 300

<210> 474
<211> 300
<212> DNA
<213> Homo sapiens

<400> 474
aacttaaagg tagttttaga aggaagtaca aattggcttt catcttgcaa acaatcgttt 60
tttacttcat tatcttaatt tgctttgtca ctcataaaaa ggaaaccata cctgagttgt 120
agacaatgag gaaacacttg aggcttctgc tgtgtgttct tttgttattg ttgttattgt 180
tgttactcag taacttgaat attgtttaat gtgttgtaag acgtagagtt tatctcaagc 240
tgttaaaaat ggtaatgtac aaatgtgaat agacacttat ctatataata tgggtaagtt 300

<210> 475
<211> 300
<212> DNA
<213> Homo sapiens

<400> 475
ttacttttga ttgtgtctga tgggaactga gttgttggcc tttgtgaaat gaaatttttg 60
gctcttgaga aagaattctt atgaattgtt atgcgaattt tatatattta aagagggaga 120
tctggggctg ttatttttaa acacttttt tcataataca tattccgagt agatatttat 180
aaaatatatg tttctttcat tatgtgtttg taaaattaga gtttaaataa atatgctttg 240
atgcatagtt ttgaactaat gtaacatgat ttttcttttt taaaacagcc tgaaaatgta 300

<210> 476
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 476
tcatattagt gttgccanga gcaaaaggtg gggnaggtgt tgactttnan agcacagnag 60
naantttten tgttgttgtt cgnttatctn gattgtgtta gtgcccacan gnctgtatgc 120
atttttcata attcncanan ntgtatncta atnagggtgc acttcactgn acataaatga 180
atctcaacag acaaaaggtt aaatcatttg ttcattcctt taacaagtat gtgtcgagtg 240
cctactatgt gctgggcact gtaggttcaa tggtaagaaa agcagataca ggc 293

<210> 477
<211> 300
<212> DNA
<213> Homo sapiens

<400> 477
gatgagttct tttctttctt tccacctcct gcaaattatg tgatttgcat aatttgtaca 60
tagttaggtt catttgttag tttgtattcc ttttggcttc ccccatatcc tcgttgactt 120
tttctttctt ttgtaactta catatgttat gaaatttata tgaggatata taattttcat 180
aaatgtttat ggtttacatg tattagttgt tattattaag atcaccctgg gattgactgg 240
ccaagcattt ggtggaagat agcaataaat aatacatcat aaaagacttt aatgtaaaaa 300

<210> 478
<211> 300
<212> DNA
<213> Homo sapiens

<400> 478
aagccaggag cgaggggact aacagcgcac cccctccacc agtgccgacg gaaaccccgt 60
tttaaattaa aaaataagcc agtatacatc gtagaaaatt tctcttaaaa atctcacaat 120
ttgtaaatgt atatttttte tttaacataa aagtttacaa tataccgtaa aacaaaaggc 180
tcaggaaaat aatttccaaa aaaaaggaag aaaaagaaac ctgaagtttt gaattaaagc 240
tgaagacatt tttttaaacc ctgttgttga accagtgact ttttttttatt gtgctgatgg 300

<210> 479
<211> 231
<212> DNA
<213> Homo sapiens

<400> 479
cctcccaggt tcacgccatt ctcctgcctc agcctcctga gtagctggga ctgcaggtgc 60
ccgccaccac acccggctta ttttttgtat ttttagtaga ggtggggttt cactgttagc 120

caggatggtc tcgatctctt aacctcgtgg tccacccgcc tcggcctccc aaggtgctgg 180
gattacaggc gtgagccact gcgcctggcc ttgggttgtt atactggggt c 231

<210> 480
<211> 300
<212> DNA
<213> Homo sapiens

<400> 480
gttcccctct tcttgtgaga ctggtccagg cagcccttct ggacactgca tgatcacagg 60
agcagccctc tggcccataa tgacggccct gtcttcgcag gtggccactc gggcccgcag 120
ccgctgggta agggtgatgc ctagcctggc ttattgcacc ttccttttgg cggttggctt 180
gtcgcgaatc ttcatcttag cacatttccc tcaccaggtg ctggctggcc taataactgc 240
tgttgtcact ccactctcct aggcgctgtc ctgggctggc tgatgactcc ccgagtgcct 300

<210> 481
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 481
gtgatcacaa gggtcctttg ctgtggaata gtgaggtggt tgagtcagag gcagagtgat 60
gcaatgactg aaagactttt ccagccatct ccggctttgn atncggaagt cggtcatgag 120
ccagggnntg caggcaggct ntgggagctg naaaaagcaa ganaatggnt tctcccctgg 180
agcctccaga agggatgcgg tcctgccaac cccttgtcag tgagccnttt cagatttctg 240
acttccagga ctgtaagana atnancttgg cttgtcgaac ggnttcagan ttcaancact 300

<210> 482
<211> 300
<212> DNA
<213> Homo sapiens

<400> 482
cctacttatt ggatgttggc tctttggtgt catggagatg gctttactgt aggtttgttg 60
tgttgcatta cttttcattg ggattgaact gagaaataac aaacaagctt taagtgggaa 120
attaaaaaaa agaagtaacc tatgtagatc caaacttaaa atgtgagaaa ttattgaaat 180
ttcatttttct acaaacttga aattagcctg ctaattgtaa agttgtttta ataatgctga 240
caaatgtcag ttacgtttgc aaaggagtgt atggttctag gtatttgcct actgttaacc 300

<210> 483
<211> 300
<212> DNA
<213> Homo sapiens

<400> 483
gggtgcagtg gctcactcct ataatcccag cattttggaa gtcctatgca ggaggattgc 60
cagaggccag gaatttgaga tcagcctggg caacatagtg aaactctcat ctttataaaa 120
agtaatatta aaatttttaa aagtgtataa actgtaaagt atattttact ggtgttttct 180
tccttattcc tacttgtcag atgcaaatac acatttttgt gtgtttgtgt ttagtaatta 240
taagtataca tatttcttct atttcatata tttctatgac attatatctt agatgtgtaa 300

<210> 484
<211> 300
<212> DNA
<213> Homo sapiens

<400> 484
caaagaggta cagagtgaag acagtgtcct cctgtttgtt attgcatgga cgatcacgga 60
aatcatccgt tactcctttt atacattcag tctattaaac catctgcctt acctcatcaa 120
atgggccagg tacacacttt tcattgtgct gtacccaatg ggagtgtcag gagaactgct 180
cacaatatat gcagctctgc cctttgtcag acaagctggc ctatattcca tcagtttacc 240
caacaaatac aatttctctt ttgactacta tgcattcctg attctaataa tgatctccta 300

<210> 485
<211> 300
<212> DNA
<213> Homo sapiens

<400> 485
gtgaggctct cttaaaaaat ttaaaaatac tgaagaaaca aagggaggag tttgtagaat 60
ctggagtgga ggaaacttct gtgtcaccaa acacagaaac catcaaagaa aatctttcac 120
ttccaaaatt agtctataga aaaaaaaaag aaaatcttaa cccaaataag agactgaggc 180
aagagcttca atcaatcgag gtttactgag ccagagttgg agcgtgccca ggaaagcaac 240
acaagtcaaa gaaacgtctg tggcctgtgc tctcccaaga agttttcagg aggctcaata 300

<210> 486
<211> 300
<212> DNA
<213> Homo sapiens

<400> 486
cattaaatac acacaagact tcaattgctg ggtcctccat tgattaatga aaaaatgatt 60
gtttttggaa tttgagtgaa acacttctta atggctgagt agggtggctt acgcctgtaa 120
tcccaccact ttgggatcac ttgaggccgg gactttgaga ccagcttggc caacatgagg 180
aaagcacgtc tttactaaaa atacaaaaat tagctgggcc tggtggctca tgcctgtaat 240
cccagctact tgggagtctg aggcgagagg atcgcttgag cttgggaggt ggaggttgca 300

<210> 487
<211> 300
<212> DNA
<213> Homo sapiens

<400> 487
gtctagtata atcttgatgc tcaaaccaga taaggacaat acaagaaagg aagagtatag 60
gctaattcta cccaataact aaatgaagta ttagcaaacc agattcatca ataatctttt 120
aaaaatcaag aattaattgg atttaggaat ataacactgt gtataacaag tttaagagaa 180
atatatgaga atgataagac tgcaattgaa agtagaggct ttctctggag ggaaaggtga 240
ggaggatgtg atttggaaga acagcatggg gaggcatcag ttgtattgta atgtttattt 300

<210> 488
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)

<223> n = A,T,C or G

<400> 488
aancnangtn atnncaaggg tnattggntg nggaatagng aggtggatga gtcagaggca 60
gagtnatgcn nnnnntgaaa gacttaacca gccatcaccg gctttgaata cggaagacgg 120
tcatgagcca gggaatgcag gcaggctctg ggagctgaaa aaagcaagaa aatggattct 180
cccctggagc ctccagaagg gatgcggtcc tgccaacccc ttgtcagtga gccatttcag 240
atttctgact tccaggactg taagaaaata a 271

<210> 489
<211> 300
<212> DNA
<213> Homo sapiens

<400> 489
aagacctgca gcttcagcat cacttgagaa gttgttagga atgcatacta gtgggccccg 60
cccccagaca tagtgaatca gaaaccaaca gggaggcgcc tagcattgtt tttttaacaa 120
gtgctgggtt attctgatgc acagtctagt ttaagaacca ctactttggg taaacgtttt 180
gactgtttaa agtttatggc ggtgaagtgg gcatcttcaa agactagtac ttacacagtt 240
tagaagattt caaggtactg ctgacagtag tttattatgt cagtatacat acgtgtagag 300

<210> 490
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 490
gcactgtggc gctcacctgt aatcccacca ttttgggagg ctgaggcgga ggaccacctg 60
aggcaaggaa ttcagaacca ctctgggcaa cataatgaca ctaacaaaga ctatctctaa 120
tcaaggctag aaccaaggga aggctaataa ttgcccagta ctgtgcatct actgaaagcc 180
ctacccaagg ccaccannnn nnnnnnncnt ctntnntatg ncnantcnga aanaacngna 240
acnttcacnt tnttgactga cgactgtcna cncat 275

<210> 491
<211> 300
<212> DNA
<213> Homo sapiens

<400> 491
tgatgcctta gtcacttggc cacacagttt tgtggtttac gagtcatggg aattgcttgt 60
cttactctga ctgctaaagt tctgtcctat tgtcttttca tgtaatagca acatgactct 120
gatgacaaag cccaactaat tacacaactt aatttaatag tttaaagcgc aaagggcatt 180
ccctgagcag taaaatcttt tgtttggaaa ttttaaaaca aattatattt tactttatgt 240
tttatattta cgtaataagt atttacaaga acacaatttt ctcaagattt aaactgctca 300

<210> 492
<211> 300
<212> DNA
<213> Homo sapiens

<400> 492

gtcaactctc cttggtgagt gcctcagaac ttaggaaaag agaacagcgc atgtctctct 60
catgaagatg acagaggaca aaagcaagca gaaatataca aggatttgcg tactctatta 120
tgaatttctc tttgagaaat aatacctgtg agaatgctgc tccttcaatt aggttcagga 180
ttggaggaaa aatcatataa aataggttcc tgcaataata ttgccccttg agtatgggtg 240
ggcttgtgac ctgctcagtg ctaaggaaat gcagtggaaa tgatgctgtg taacttctga 300

<210> 493
<211> 300
<212> DNA
<213> Homo sapiens

<400> 493
ctgacaactt gattgggttc tccttcaggt ttgaagcgcc ctcgagaagt gtctaaagga 60
gacagttgat agccaaacaa cagttttgga ttcactgact gattatgaaa gaagcagtag 120
actggtatca agaatcagtc agcaaggagg ccctcaccag acgccagtgc catgttcttg 180
gacttctcag cctccatatt catgaactaa gtttttggaa tccttaggct tccacgtgtg 240
gaaagcctga gctaacctac tggaggatga gccatcacct ggagcagatt caggccatcc 300

<210> 494
<211> 300
<212> DNA
<213> Homo sapiens

<400> 494
gtcactctgt cacccaggct ggagtgcagt ggtgtgatca tagctcactg cagcctctac 60
ctcctgacac aagctgtcat cccgctttgg cttctcaaag tgctaggatt ataggcgtga 120
gccaccatgc ccgaccagtt tctgctttta ttaaaattgt tcacagtttt atacattcat 180
gttcattaaa aatgctattt agaaaagagt ttgataaaat aaatattata caaaattcga 240
agaaaaaaga aaagagtttc tgtttcagtc acaaattagg gttattgtga tgtgtattta 300

<210> 495
<211> 300
<212> DNA
<213> Homo sapiens

<400> 495
gaaaagttaa aaaagacatt gagtgatgta atccaccctg ggggcaatag ccatattgcc 60
aatggtgcgg ccgggtgtgt ggcaacatta cttcatgatg cagccatgaa ccctgcggaa 120
gtggtcaagc agaggatgca gatgtacaac tcaccatacc accgggtgac agactgtgta 180
cgggcagtgt ggcaaaatga aggggccggg gccttttacc gcagctacac cacccagctg 240
accatgaacg ttcctttcca agccattcac ttcatgacct atgaattcct gcaggagcac 300

<210> 496
<211> 300
<212> DNA
<213> Homo sapiens

<400> 496
gttatgaaaa attattccca ggtcctaagt tccactctag gaacttctaa cattgccacc 60
ttgatttcag aattatgtgc accaataact atgttgttcc tctcattttt tccacttttg 120
agcaagaagg tcacatggca gttaccctct gcctgtccta ccattgtctt ttgggtatgt 180
gttgggcagg taatttgtct cttaagttcc agaaacgaga ttgagagaag caatatatat 240
tcaaggagca gcatttaagg aactacctac acccaggaaa tttcatctgt acctgcacct 300

<210> 497
<211> 300

<212> DNA
<213> Homo sapiens

<400> 497
gtcacatctt aaatggatgg tggcagacaa aaagagagag cttatttagg gaaactctgt 60
ttttaaaacc atcagatctc atgcaactta ttcaccatca caagaacagc agggcacaga 120
cccatcccca tgattcaatc atttcctact gggtttcttc cacagcatgt aggaattatg 180
ggagctacaa gatgagattt gggtggagac acagagccaa aacacatcag atgccatgga 240
aatacaatga ggaaaagaca gtctttccaa taaactgtgc tgggaaacct ggctatccat 300

<210> 498
<211> 300
<212> DNA
<213> Homo sapiens

<400> 498
gcaaccttcg cctcctgggt tcaagtgatt ctcctccctc agcatcccaa gtagctggga 60
ctacaggcac gtgccaccac acccagctaa tttttgcatt tttagtagag gcagggtttc 120
atcatgttgg ccaggctggt ctcaaactcc tgatctcaag taatctgccc actttggcct 180
cccaaagtgc tggcattaca ggaatggagc caccgcgccc agcctgattt ctttttttag 240
gtcttgtcag gaaagatatt gattcttttg attcgtgaac atggtttttg gtcgtcttta 300

<210> 499
<211> 300
<212> DNA
<213> Homo sapiens

<400> 499
cttaacagag aaggtacctg aggctcaaaa aggatgactg acagtcctag tggcagaatg 60
gaggtgggat ctggaaccca caacttgatt cctaggactc tttttttta attcccacat 120
tggctgggtg tggtggctca cgcctgtaat cccagcactt tgggaggctg aggtgggtgg 180
atcacctaag gtcaggagtt ccagaccagc ctgaccaaca tggtgaaacc ccgtctgtac 240
taaaaataca aaaattagcc aggcatggtg gcccatttcc tgtaatccca gctactcagg 300

<210> 500
<211> 300
<212> DNA
<213> Homo sapiens

<400> 500
gggctgacct taagataagg agatgatcct ggattatctg ggtggaccca atgtaatcac 60
aagggtcctt aactgtggaa tagtgaggtg gctgagtcag aggcagagtg atgcaatgac 120
tgaaagactt aaccagccat caccggcttt gaatacggaa gacggtcatg agccagggaa 180
tgcaggcagg ctctgggagc tgaaaaaagc aagaaaatgg attctcccct ggagcctcca 240
gaagggatgc ggtcctgcca acccccttgtc agtgagccat ttcagatttc tgacttccag 300

<210> 501
<211> 300
<212> DNA
<213> Homo sapiens

<400> 501
ctgagatctg cttttactga agtggatcaa tgatgaaact agccaaatct gagcatcaga 60
aggctttccg gtctacctga tgcatgatct ctacagttct gagaagcaga actataaaac 120
aatgtaaaac aataagggca tatgtctggt gtgtgtgtgg ggggtgtgtg tgtgtgtgca 180
cccacacgtg tttataaagg tagcagttgt aggaatgaat gagattgggg gtgaggggt 240

gcatatgtat gtctatgaaa gcctaatcat ttctgggcaa tgatgtaaag gttttacgac 300

<210> 502
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

<400> 502
caccatcgaa tatttttatt tattttgaga gacagactct gtcacccagg ctagtcttaa 60
actgttggtg aatcttaagt gattctccca cctcagcctc ccaaagtgct gggattacag 120
gcatgagcca ctacccttgg ctgtgatcaa gtatttagtn nnnnnnnnnn nnnnnnntaa 180
atagtctgaa gtagagaaaa tagcacccaa tctaanataa ggtgaggtct anncacttat 240
ttaannctnc nttnntnnct 260

<210> 503
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 503
gctatgctaa acagccttta catgtatggt ctggttaaag ttcctttgtt ccttttgttt 60
taataaaatg tgtcactgat tttttagctc aaaatcatca ctgttaattt ccagtcaccc 120
caaatatggt taaaagattt tttttttaa tcatgaagag aaaattagta gcatttcttt 180
ctctccccat tatttattgg ttttcctcac taatcttttt ttttttannn nnnnnnccaa 240
aaatattnat ctnggtttna cntttnaatt nccntnctta atnggaattt tttt 294

<210> 504
<211> 300
<212> DNA
<213> Homo sapiens

<400> 504
cagaacttca cagcagcctg tcctcatcag caacccaacc accttcatca gcaacccaac 60
caccttcatc agcaacccaa ccacctcgtc agcaacccaa ccacctcgtc agcaacccag 120
ccaccttcat cagcaaccca accacctcat cagcaaccca gccaccttca tcagcaaccc 180
aaccacctca tcagcaaacc aaccactttc atctgcaacc caaccacttt catcagcaac 240
tcaacacctt catctgcgcc caaccacctt catcagcaaa ccaaccacct tcttcagcaa 300

<210> 505
<211> 300
<212> DNA
<213> Homo sapiens

<400> 505
gcccagctac gatctatatg ctgtcatcaa ccactatgga ggcatgattg gtggccacta 60
cactgcctgt gcacgcctgc ccaatgatcg tagcagtcag cgcagtgacg tgggctggcg 120

cttgtttgat gacagcacag tgacaacggt agacgagagc caggttgtga cgcgttatgc 180
ctatgtactc ttctaccgcc ggcggaactc tcctgtggag aggcccccca gggcaggtca 240
ctctgagcac cacccagacc taggccctgc agctgaggct gctgcagcca gggactaggc 300

<210> 506
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 506
ccaagtntnc ancanccacc aaanggnttn nccgnatgtg gtccttatac acaatanagt 60
gntantcatc catacnaaaa gaatgagatc ctatcatttg caataacatg gatgaaacta 120
aaagtcattg tgntatgnga aatnagncag gcncagaang tcanaatatc acgtgttgtc 180
tcctcntctn taggannnnn nnnnnnnaag ccatctgaac tgacagagat ggagaatgga 240
aggatggtta ccagaagttg gtggggaagg gggaag 276

<210> 507
<211> 300
<212> DNA
<213> Homo sapiens

<400> 507
aaaacacaca cacacacaac acaatgtttt cacgcctgta aacctagcac attgggaagc 60
caaggtggga ggattgcttg aggccaggag ttcaaggctg cagtgagcta tgattgcaca 120
ctgtactcta gcctgggaga cagagtgaga cactgtctct aaaaaaaaaa aaagtttttg 180
aaccttaaaa tactttgttt gaatttctaa tcatcattca aaagagcagt aaaaaatggt 240
tacttgttct tgtacaagct actaattaga ctatagtagg atattttaaa gagctgaatc 300

<210> 508
<211> 300
<212> DNA
<213> Homo sapiens

<400> 508
tgaagccagg aaaggggtg ggctaggggg tgctgtttta ggtagagtga tgggaacagc 60
cccactgagc aaactttagc cacatgagta gctggaagaa aagccttcta ggaccaggga 120
acagcaagtg caacagccct gagacaggat gggcttgtca gtttgaggag cagtgggagg 180
cctgaaccag gttacatggg gcccagccag tatggccacg actttgtgtt ttatccagag 240
tacaaaggag cctcactgag ggacaaggga agtggcatga tgtgacccgc atattaagag 300

<210> 509
<211> 300
<212> DNA
<213> Homo sapiens

<400> 509
gcctgggaaa gcgtggcgcc catgaatatc cgcaggagca cgcatgacct gggggccatg 60
gacggatggt tgtacgccgt ggggggtaac gacggtagct ccagcctcaa ctccatcgag 120
aagtacaacc cgaggaccaa caagtgggtg gccgcatcct gcatgttcac ccggcgcagc 180
agtgtgggtg tggcggtgct ggagctgctc aatttcccgc cgccatcctc cccgacgctg 240
tccgtgtcct ccaccagcct ctgacccacc taccaccaga ggcctgcagc ctcccacatg 300

<210> 510
<211> 300
<212> DNA
<213> Homo sapiens

<400> 510
tgcaacatca ctgatatcag catcctttaa aatattatct gcttcttgtt ctaagagcaa 60
caaagctggg aattccttat agagttattc acaatgcctc cataatgaat gctgtaggct 120
gctgtggttt acagacatca aagtaaagga gcagtctttg gaaaatctaa tcaagggaag 180
gaagatctat gaacctccac ggtatatgag tgtaaaccaa gcagcccagc agcttctgga 240
gattgttcaa aatcaaagaa tacgaggaga agaaccagca gttaccgagg agacactttg 300

<210> 511
<211> 300
<212> DNA
<213> Homo sapiens

<400> 511
gtatcacctg agcaaatctt ttaaattata cattctgtga tatttccttg actttcttat 60
ccagcacttg tattgattat ttttcatttt gataatgttg ggtttttaaa aactccttta 120
tgatggaaaa tttcaaacat acacaaagt agagagagaa tggtataata aacccactca 180
gttttaagga ttgtcaacta ataccagttt tatttcatgt atgactccaa caacttcccc 240
aaccagcctt cagattattt gaaagcaaat ttcagacatc gtattttact catacatttt 300

<210> 512
<211> 300
<212> DNA
<213> Homo sapiens

<400> 512
gggcatgggg ccaggaccag gggagaggca cagctccttc ctgagcagcc tctcaccact 60
gccacaaggc tccctaatgc tggtctctgc tccactcccc ggcttcccgt gaggcaggag 120
gcagagccac agccaaggcc ctgaccactt ctgtgccagt tgtctaagca gagcgcctca 180
gggacgctgg aaatgcctta aggatagagg ctgggcatca catcaaatgg gactgtggtg 240
tttggtgaaa accttcctga ggatctggat tcaggaccct ccatgactgg cctatttact 300

<210> 513
<211> 300
<212> DNA
<213> Homo sapiens

<400> 513
cgaataaagc agaaaaggag agatcgctga aggaaaagtc tccgaaagaa gaaaaactga 60
gactgtacaa agaggagaga aagaagaaat caaaagaccg gccctcaaaa ttagagaaga 120
agaatgattt aaaagaggac aaaatttcaa aagagaaggg agaagatttt taaagaagat 180
aaagaaaaac tcaaaaaaga aaaggtttat agggaagatt ctgcttttga cgaatattgt 240
aacaaaaatc agtttctgga gaatgaagac accaaattta gcctttctga cgatcagcga 300

<210> 514
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)

<223> n = A,T,C or G

<400> 514
agtatgagaa gggaggatgg gggagaatct gattaaaaaa aatgattcat tccttcacag 60
acactaacaa acatggctaa aaagcacatg tcagaacaca gaagcctagg tagatggttg 120
acatttttat aacttcctta agtgagtagt taaaccagca gtcttaattc tgttggtctt 180
ccaagagtgt ttaattacat aagtattacc tgtattcatt tcccacaact gttgggtttt 240
tctttctttt ttttttttt nnnnnnnnnc tnccnaaaaa ancncccggg 290

<210> 515
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 515
anaaggcgca ngaagcagaa gcgcagagcg aggacgacga cgaggataca gaagaggaac 60
agggggaaga aaaggaaaag ggagcgcagg agaaaaggag ggggaagaga gtccgttttg 120
cataagatga agaatagagt gaaaattcct cggaggacgg tgacataacg gataagagtc 180
tttgtggaag tggtgaaaag tacatcccac ctcatgtgag gcaagctgag gagacagtgg 240
acttcaagaa aaaggaagaa ctagaaaggc tgaagaaaca tgtaaaaggt ctacttaaca 300

<210> 516
<211> 300
<212> DNA
<213> Homo sapiens

<400> 516
gctatctgaa cacagtggaa agatgggacc ctcaggctcg ccagtggaat tttgttgcca 60
ctatgtctac ccctaggagt acagtaggtg tggcagtact aagtggaaaa ctttatgcag 120
ttggtggtcg tgatggaagt tcttgtctca aatcagtaga atgttttgat cctcatacta 180
ataagtggac actgtgtgca cagatgtcaa aaaggagagg tggcgtagga gtgacgacct 240
ggaatggact gctgtatgct atagggggggc acgatgctcc cgcatccaac ttgacttcca 300

<210> 517
<211> 300
<212> DNA
<213> Homo sapiens

<400> 517
ggaaccatga gaaccgaagc tagaattgct attgaattac tttattttct cttcccttat 60
tgggtagaga tacatcatta ctggcctcag gggtttaccc aaagaaaggg tatttttgag 120
caaataatgt gatttcctgg ctattttgtt gggggcttaa gatttttttt tttcaaatgc 180
atttttagtc actaaaaatt aactgtcgta ccatctagaa ctatactgtc cagtaccata 240
gcctctagcc gtatgtagct atttgtatta agattaattg aaattttaaa tccagttcct 300

<210> 518
<211> 214
<212> DNA
<213> Homo sapiens

<400> 518

ctcagacaaa gaaaccattg aaattataga cctagcaaaa agagatttag agaagttgaa 60
aagaaaagaa aagaggaaga aaaaaagtgt ggctggtaaa gaggataata cagacactga 120
ccaagagaag aaagaagaaa agggtgtttc ggaaagagaa aacaatgaat tagaagtgga 180
agaaagtcaa gaagtgagtg atcatgagga tgaa 214

<210> 519
<211> 300
<212> DNA
<213> Homo sapiens

<400> 519
agcaattcca ctcctagctc cacccacagg aattgaaagc aaagacgcaa acagatgcct 60
gtgcaccaaa gttcacggca gcatccttcg ccatagtggc agcatccgtc gtcacagcgg 120
catcatcctt catcatagcg gcagcatccg tcgtcacagc ggcagcatcc ttcgccacag 180
cggcagcatc tgtcgtcaca gcggcagcat ccttcgccaa agcggcagca tccttcgtca 240
tagcggcagc atcctttgcc atagcggcaa ggtggaaacc ctgtccatcc actgaggcgt 300

<210> 520
<211> 300
<212> DNA
<213> Homo sapiens

<400> 520
caccgccagg ccagctgtca ggaaacaggg gctctaggcc cagcttcacc acttaggagc 60
tatggctttg ttcagaaaca ttgtgactct cttacccaca cattcctctg ctggaagggg 120
agattgacaa accagcatca tctctaattt actacaaaag ccctcactgg aaattattct 180
taacttagca gctggtagga tccattaaaa aaaaaagtaa gttagactgt gttactctgc 240
tgctcaaagc cctgcagtgc ctcctcattt tacctagcgt aaaacctaaa gtcctttcca 300

<210> 521
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 521
cacagttctg catggctggg gaggcctcac aatcatggtg gaaggcaagg aggtgcaaaa 60
gcatgtctca catagtggca aggcaggaga gagcatgtgc aggggagctc ccatttataa 120
aaccatcaga tctcatgaga cttagtcact accacgagaa cagtatgggg ggaaccatcc 180
ccatgattca gttatctgca cctggcccca cccttgacac ntgggaatta ttccaatgcn 240
nggtganatt tgnntngnna nntttncnna 270

<210> 522
<211> 300
<212> DNA
<213> Homo sapiens

<400> 522
attgaaggca gagaaggaag ggaggaggga atgattcaag gccaaaatgg ccacatttag 60
aagatacctc agatgataac cattgttatg tgtgtgcaat tttatttaac agtgctgtgt 120
atgtggtgga caagttatat gaaatatcta gtctttctag atatttggaa gtgcttgatg 180
tatttaaaag tggtagtaga ataacacttt gtaaatagct tttaaaaact gatgggaaat 240

gctgtttgga agtggaattg ttgaaccacc tgggaggtgg gagggaagaa attgcaaatg 300

<210> 523
<211> 300
<212> DNA
<213> Homo sapiens

<400> 523
tgaagaatgg cgtgggttgg ttcctttcaa atgcacttga gcagcggtct ccaaccacag 60
ggccacagag ctggaggtga gcagcaggcg agtgaaggga aacttcatct gtatttctag 120
cccctcccat cgcttgcatg accacctgag ctccatgtcc tgtcagatca gcagcagcat 180
tagattctca caggagcaca aactctgttg tgaagtgtgc atgcgaggga tctaggttgt 240
gtactcctta tgagaatcta atgcctgata ttctgttact gtctcccatc accccagatg 300

<210> 524
<211> 300
<212> DNA
<213> Homo sapiens

<400> 524
caagaagagt tttctgttca gtttggaaca agattttgag aagacattta ggatgtacta 60
gtttgagttt ttaaatgtat atttgagata ttttctcaac tttctctttg ggtctgtagc 120
taaaatatgc agtataatgt tatatttatt tatttttaa gagatggggt ctagctattt 180
tgcccaggca gactcaaatt cctgggctca agtgatcctc tgccttggcc tcctgagtag 240
ctgggactta cagacatgtg ccaccaaacc tagtggctat ataattttta aaaatattct 300

<210> 525
<211> 300
<212> DNA
<213> Homo sapiens

<400> 525
gccacacggg cccgcatcat ccctgcaatc tggttccgct acgacctcag ccccatcacg 60
gtcaagtaca cagagagacg gcagccgctg tacagattca tcaccacgat ctgtgccatc 120
attggcggga ccttcaccgt cgccggcatc ctggactcat gcatcttcac agcctctgag 180
gcctggaaga agatccagct gggcaagatg cattgacgcc acacccagcc taatggccga 240
ggaccctggg catcgccagc cttgcctcca gtgccctgtc tcctttggcc ctcaatctgg 300

<210> 526
<211> 300
<212> DNA
<213> Homo sapiens

<400> 526
ttccctccct cctcctttca ttctccttct ctccttctcc cttccttttc tcctacctcc 60
tttgactaag cctccctccc ctactccctc ctttccttcc ttccttcctt cttctctatc 120
aatataatca ctttgtttct ttcaggtgag atcggactgg aactgttcgg ctgcgaccag 180
aaatttattt tcctgagtaa attgccgaga attaagaatg aagagggcca tttgcatctc 240
cttaaattat tcagttacct gctttattgc tccatgtgga aaacttaaaa ttgttaagtt 300

<210> 527
<211> 300
<212> DNA
<213> Homo sapiens

<400> 527

atccagagaa atgatgtgcc ttgtgtaaag ttgtggttag gaagggacag agccaggact 60
ctaaattctg tcctccggcc ataattccaa aactttctcc aatgttaggt atgtaggcta 120
aaatgtgcta acagcacttg tgtttttgtt tccttttgtt ttacttttta ttatggcaaa 180
tttcaaacat atacagatac agaatagttt aatgaactcc catgttctca tcatgccagt 240
tcaaacatga atacatggtc aaccttgtat cacttaaact cttgcacaca agccctgccc 300

<210> 528
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 528
gtaagttatt tgttaagtta gaaccctcag tgcatggtct agggatctct ggaggtcccc 60
aggacccttt cagagaagcc atgaggtcaa aactgttttc ataagcagaa ccaaaacatt 120
atttgacttt ttcaatgcat tggcatttgc attgatggta caaaagcaag gatgagtaaa 180
atggnnnnnt ncttagcgng atcaagatgg naanaantgc acnaganaac nntgtntnct 240
tnnctgcann gngcntttta agactnccna ttcnaantaa ganancannn acggcc 296

<210> 529
<211> 300
<212> DNA
<213> Homo sapiens

<400> 529
aaaacactat ttacctattt tccaaggaag gaagtattga gattgacatt ccagtcccca 60
aatacttatc ttctgtgagc tcacaagaaa ctcagggcgg ccccttagct cctatgactg 120
gaaccattga aaaggtgttt gtcaaagctg gagacaaagt gaaagcggga gattccctca 180
tggttatgat cgccatgaag atggagcata ccataaagtc tccaaaggat ggcacagtaa 240
agaaagtgtt ctacagagaa ggtgctcagg ccaacagaca cactccttta gtcgagtttg 300

<210> 530
<211> 300
<212> DNA
<213> Homo sapiens

<400> 530
aacaggaata tggaaagaaa ctcagagccg agttagtgga aaagtggaaa gcagagagag 60
aggctcggct ggcaagagga gaaaaggaag aggaggagga agaggaggaa gagatcaaca 120
tctatgcagt caccgaggag gagtcggacg aggaaggcag ccaggagaaa ggaggggacg 180
acagccagca gaagttcatt gctcacgtcc ctgttccctc gcagcaagag attgaggagg 240
cactggtgcg aaggaagaaa atggaactcc tccagaagta tgcaagcgag accctgcagg 300

<210> 531
<211> 300
<212> DNA
<213> Homo sapiens

<400> 531
cttagattct acctgtaaca ttttataaaa cttgctttat aacacagata tctatcaatc 60
tcatctttaa atttaatttt ttttttgcaa cagagcaaaa cccagtctcc aaaaaaaaga 120
aaaaggaaaa agaaatgtat ttaaattatc catgctttta gctatttact tatgagcctt 180

tataacagat tcttcatagt ctgccttcta tactcccagg gtgatggtct ggggaagggg 240
gagctaggac ctgtctttcc tttggtctta tcaccacctc ttccaggggc tgctccttcc 300

<210> 532
<211> 300
<212> DNA
<213> Homo sapiens

<400> 532
aatagtagaa agggtcccca ttcctgctca gcaccgcacc tctctacccc cccacagaca 60
cacatgcaga cacacacatg cagacaacac gcagacacac acatgcaggc actcacatgc 120
aggcccatgc acacacacgt gcacacacat gcagagacat gcagacacgc aggcacacat 180
gcacacatgc aaagacacgc atgcaggcac acgcagacgc acacagagac acacatgcag 240
atacacatgc acacacacat acacacactg gcccctgttt ttctgtggtg tcactgggtg 300

<210> 533
<211> 300
<212> DNA
<213> Homo sapiens

<400> 533
gattttacgg tttttgatgg gattattcaa gtgtcagaat taactgttca aaatgttctg 60
aatcatgtag atacatggca ggtaactgtt tatgggagaa aagtacagtg ctgttacgtg 120
gcactgtaca gtcatgtgcc acgtaacagc gtctgggtca gtgacggaca cttacctgac 180
agcggatcca caatattctc gtgcagtgtg tttggaatcc tggtctgggc tctcgtcgtt 240
ggccttgtag atcaagtagg ggaagtgagt gatgttcagt catgctgctg ggacacttgg 300

<210> 534
<211> 300
<212> DNA
<213> Homo sapiens

<400> 534
gcctggccta aatgaagtac cacatgaccg accgaccgac ctggggaaca tagcaagacc 60
ccatctctac aaaaatgtaa aaaataaaaa ttagccgggt gtagtggtac atgcctgtaa 120
tcctagatac tcgggaggct aaggcagaag gatcacttga gcccaggagt tcgaggctac 180
agtgagctgt gatcgtgcca ctgcactcca tcctgggtgg cagagtgagg ccctgtctca 240
aaataaataa tccagtcccc cccaagaaag gaatgaagtg ctataatgag aaaaatccta 300

<210> 535
<211> 300
<212> DNA
<213> Homo sapiens

<400> 535
tggacggcag agcccaagtt tcaagctttc cctgtccagt ggaacgaaga ctaacctcac 60
cagccagtca tctacaacaa atctgcctgg ttctccggga tcacctggat ccccaggatc 120
tccaggctct cctggatccg tacctaaaaa tacatctcag acggcagcta ttactacaaa 180
gggaggcctc gtgggtctgg tagattatcc tgatgatgat gaagatgatg atgaggatga 240
agataaggaa gatacgttac cattgtcaaa gaaagcaaaa tttgattcat aataatggca 300

<210> 536
<211> 300
<212> DNA
<213> Homo sapiens

<400> 536
agtgcacgca gcccgagccc acgggcgact gacagctctg caggagagat ttcaacacca 60
tcccacactg tccaggcctt aactgagagg gacagaagac gctggaagga gagaaggaag 120
cgggaagtgt gcttctcagg gaggaaaccg gcttgccagc aagtagattc ttacgaactc 180
caacttgcaa ttcaggggggc atgtcccagt gtttttttttg ttgtttttag atactaaatc 240
gtcccttctc cagtcctgat tactgtacac agtagcttta gatggcgtgg acgtgaataa 300

<210> 537
<211> 267
<212> DNA
<213> Homo sapiens

<400> 537
tttacatttt gtttgaatca ggatccaaat aaggtttaaa tattgcaatt tgattaatac 60
attaagattc ttttaatcta taagttcctg ctccatctgt cattttattt ttatcccttg 120
aaatttattt attgaagaaa ctatatcctt tgctttgtaa aattttccac agtgtggctg 180
gctttggctg attgctagcg tcatttgcta tttatttttg tcctgtatct tggatctggc 240
gccttgatca gatttaagtt gattttt 267

<210> 538
<211> 300
<212> DNA
<213> Homo sapiens

<400> 538
ggtttttgat gggattattc aagtgtcaga attaactgtt caaaatgttc tgaatcatgt 60
agatacatgg caggtaactg tttatgggag aaaagtacag tgctgttacg tggcactgta 120
cagtcatgtg ccacgtaaca gcgtctgggt cagtgacgga cacttacctg acagcggatc 180
cacaatattc tcgtgcagtg tgtttggaat cctggttggg gctctcgtcg ttggccttgt 240
agatcaagta ggggaagtga gtgatgttca gtcacgctgc tgggacactt ggatttccag 300

<210> 539
<211> 300
<212> DNA
<213> Homo sapiens

<400> 539
accagaagga agaaggatta ctaaattaga tcagattttg ctaaatggaa ataatataac 60
aatgctggtt cctggaggag aaggacctga agtgtgaatg agtttccttg acttacacta 120
gattttgttt tggcttataa tgacaagaaa atggaatttt ttttccctct ttctaatgtt 180
taaatcccat aaagctaagt ttcccgttaa agggaagtgc tttgaagatg tgtacccatt 240
tttgtaagtt aatcatgatt atcctggaaa aagaagaaaa gagcttcttc tttgcagaga 300

<210> 540
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 540
gnnctataga atacaagcta cttgttcttt ttgcngganc ccatcgantc ggaattatag 60
tattgacgtg aatcccactg tggtatagat tccataatat gcttgaatat natgatatgg 120

ccatttaata acattgattt cattctgttt aatgaatttg gaaatatgca ctgaaagaaa 180
tgtaaaacat ttagaatagc tcgtgttatg gaaaaaagtg cactgaattt attagacaaa 240
cttacgaatg cttaacttct ttacacagca taggtgaaaa tcatatttgg gctattg 297

<210> 541
<211> 300
<212> DNA
<213> Homo sapiens

<400> 541
aatggcctgc ctcacacgtc agccagaacc cagctgcccc agtcaatgaa gattatgcat 60
gagatcatgt acaaactgga agtgctctat gtcctctgcg tgctgctgat ggggcgtcag 120
cgaaaccagg ttcacagaat gattgcagag ttcaagctga tccctggact taataatttg 180
tttgacaaac tgatttggag gaagcattca gcatctgccc ttgtcctcca tggtcacaac 240
cagaactgtg actgtagccc ggacatccct tgaagataca gtttttgagg cttcttcaga 300

<210> 542
<211> 300
<212> DNA
<213> Homo sapiens

<400> 542
gactgtgtgt gctggtgtgt gtgtgagttc tacgtttcta ccatatgtga tcagtttaat 60
agtaacttta tttatttaaa aaaaagaaac acaattagtt actgttaaac tgataaaggg 120
tgtttatttt tacctttag aattggtcct atgaagaagt agaaagtgag tcatgcacta 180
gacagtgggc ctagctcatc agtggctaaa gttgaaaagg ggttggtttc ctgtatatat 240
atgtatgtat atacacacgt acatacattc atatatatac atatatacat aatgtgctta 300

<210> 543
<211> 300
<212> DNA
<213> Homo sapiens

<400> 543
ccagagctgg cagaagaaaa cagtaaagct tagagtagaa ataaatgaaa taaagaacag 60
agaaatatag aaaatcaaaa ataccaaaag ttggctcttt gaaaagatca acaaaattgc 120
caacccttt aagtagacaa gaaagaatga attgttggtg gtgcagtggt gagcatagct 180
gcttttcaag aacaaaaaag actcaaatga ctaaaatcaa gaatgatcaa gaatgagaga 240
gtagacatta ctacagatct tacagaaatg aaaggattat taatgagtac tgtgaacagt 300

<210> 544
<211> 300
<212> DNA
<213> Homo sapiens

<400> 544
gtctctgcaa aagacccctc cgacccgagt gttcgtggaa ctggttccct gggctgaccg 60
gagccgggag aacaacctgg cctcagggag agagacgcta ccgggcttac gccacccccct 120
ctcctcaaca caagcccaaa ctgctacccg cgaggtgcaa gtaagcggca cctcagaagt 180
gtctgcgggc cctgaccggg cgcaggtggt ggtgcgagtg agcagcacca aggaggcggc 240
agccgaggcc aaaaagagcg tttgtcgccg tctagattac atcacgcaga gcctccagca 300

<210> 545
<211> 300
<212> DNA
<213> Homo sapiens

<400> 545
taagaatcca ccaccaccca tcaattttca ggaatgggat ggtctagtaa ggataacctt 60
tgttaggaaa aacaagacac tctctgctgc atttaaatca agtgcagtgc aacaactctt 120
ggaaaaaaac tacagaattc actgttcagt ccataatatt ataataccag aagatttcag 180
catagcagat aaaatacagc aaatcctaac cagcacaggt tttagtgaca aacgggcccg 240
ttccatggac atagatgact tcatcagatt gctacatgga ttcaacgcag aaggtattca 300

<210> 546
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 546
gaaaggacag tgctacttgt atatgaaggt tatagaacga gcggcttttc ctcggcgtct 60
ctgggaacgg gtccggctta gtaaaaacta tgagaaagca ctggagcaaa tagatgaaaa 120
tctgatttac tggccccgtt tcattcgaca caaatgtaag cagagattca ccaagatcac 180
ccaataccta attcgaatta caaaacttac actaaagcga cagaggaaac ttgttccttt 240
gagtaacgaa ggtggagcgt agannnnnnn nganganang aaaaggcctt nttagctg 298

<210> 547
<211> 300
<212> DNA
<213> Homo sapiens

<400> 547
agtaaatgat aattgtgcca ctgcattctc acctgggtgg gtgacaaagc aagaccctgt 60
ctccaaatat atgtatgtat gtgtatatat atatatgcac acacacacac atatacacac 120
atatatatat tctgaatata tatattcgtg actccccgaa ataaattcag tttatatata 180
tgtaaataaa ttctgaagac tctacatgtg tgtgtatata tacacatata tttttgtatt 240
aacgttaata gtaatattaa catgagttca gggtattagc cagttctgtc tttcgggatg 300

<210> 548
<211> 300
<212> DNA
<213> Homo sapiens

<400> 548
atcagtatga actcttaaaa catgcagaag caactctagg aagtgggaat ctgagacaag 60
ctgttatgtt gcctgaggga gaggatctca atgaatggat tgctgtgaac actgtggatt 120
tctttaacca gatcaacatg ttatatggaa ctattacaga attctgcact gaagcaagct 180
gtccagtcat gtctgcaggt ccgagatatg aatatcactg ggcagatggt actaatatta 240
aaaagccaat caaatgttct gcaccaaaat acattgacta tttgatgact tgggttcaag 300

<210> 549
<211> 300
<212> DNA
<213> Homo sapiens

<400> 549
tctccttgcc tttctcctga aaggtatgag actacttgcc ttactgtcat attattgagg 60
gaatcagcgc aaagcctgag gaaatgaaca gtagctgtgg gtcaaagcca tgtctccagg 120

ttcacggctc actcccccag gacaagccta gttaggtagt ggctgcatct ggtatccctg 180
ggacagaaat gcaggtgaga gggggtatca agaatgcctc gagcctctag aactatagtg 240
agtcgtatta cgtagatcca gacatgataa gatacattga tgagtttgga caaaccacaa 300

<210> 550
<211> 300
<212> DNA
<213> Homo sapiens

<400> 550
gaaccaagaa aatatttaaa aatctaagca gtcctttgct cattaaagga taaatcagta 60
gttaacactt tttctacaaa gaaatggtgt gcctggatgg tcgtgtaggt gagttttacc 120
aaggattatg gtaacaaatg agtgagacct ctatggagaa aatattgaag gacattaaag 180
aagacctcat aaatggagag agatatatca ttaatggata ggaagcctca atggcataag 240
tatgtcagtt tctttcaaaa ctcacctatg gattcaatgt gattccaaac caaatcccaa 300

<210> 551
<211> 300
<212> DNA
<213> Homo sapiens

<400> 551
gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt caagcctgta 60
atcccaacac tttgggagac cgaggtgggg gtatcgattg agcctcggag gtcgagatca 120
gcctgggaaa cacagggagg cccccatcgc tacaaaatat tttaaaaatt agccaggtgt 180
ggtggcttgt gcttgttgtc ccggctactt gggaggctga agtgggaggg tggcttgagt 240
ccaggagttc actgcactga gctgtgatca caccactgca ctccagcctg gacgacagag 300

<210> 552
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 552
cgcaaactgg ctaatctctg ntananaact atgatntncg ccatnatgtt gatannaggg 60
nccttagggg gnanatngna aaaaacctnt gaccnangcn cnnatgantc aangnnttgn 120
tactccacgt gtaatgcntc ncaaacnttg ncntatngct ctgaanacnc tncgcgacca 180
ngaanaatan anaagannct gnanannatg ctanantttt ggccnanana atgaacgagg 240
ctaaagagat tcncctggan cnaannnntg aatagantca tactttcctn tctgctagct 300

<210> 553
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 553

aggaagttga agctgcaatg ggctatgatc gtgccactgc accccagctt gggccacaga 60
gcaagagcct gtctcaggaa aannnnnnnn naaaantcca aaantanttn gnangttcca 120
aattgcnngc cnttctgana aangnaatac gancnaatct tccaccntcn tactccntcc 180
cacctaanat gngaaccctn tttgnccann ggntccaaac ngnatnngct acttgngngt 240
tagnaatcaa ccanngatan cagggnanct tttaacgnag gagtgctttn ntgggta 297

<210> 554
<211> 300
<212> DNA
<213> Homo sapiens

<400> 554
ttattcaagt gtcagaatta actgttcaaa atgttctgaa tcatgtagat acatggcagg 60
taactgttta tgggagaaaa gtacagtgct gttacgtggc actgtacagt catgtgccac 120
gtaacagcgt ctgggtcagt gacggacact tacctgacag cggatccaca atattctcgt 180
gcagtgtgtt tggaatcctg gtctgggctc tcgtcgttgg ccttgtagat caagtagggg 240
aagtgagtga tgttcagtca tgctgctggg acacttggtt atccagatga aaacacataa 300

<210> 555
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

<400> 555
ctctatcttg tttattgttg atgccatctt agaggaaaaa atgtaaaggt aagtaattaa 60
gcatatgaca gcaacaaata agatacttat aacctaatgg gactttattt tgtagtttta 120
tgtattacaa aaaatccacc tttctctaag ggaagtttgt accccattga ttcttggtgc 180
ctttgggatc gactgggttt taatggccta gttatttgag gattttgctg ngntgtnnnc 240
atggnctntn ngatnncctt nganganann nnc 273

<210> 556
<211> 300
<212> DNA
<213> Homo sapiens

<400> 556
gtgccatctt gctatgtttc ccaggctggt tttgaactcc cagcctcaag caatcctccc 60
tttccgcctc agcctcccaa gtggctgggg ttatgggcct gagccactac acagctaaga 120
gtgtcttgta tgtgctaatg agatggctgg tgtctgagag cccctagaga gcttcaagat 180
gggggctagt ctttagaaag tccaagcaat ggctaggtat ggtggccact gcctgtaatc 240
ccaggagttt gggaggccaa ggtggacaga tcacctagga gtttgagacc agcctggcca 300

<210> 557
<211> 300
<212> DNA
<213> Homo sapiens

<400> 557
ttctcagata cctgatggat ccagacacat tcactttcaa ctttaataat gacccttgg 60
tccttcgacg gcgccagacc tacttgtgct atgaggtgga gcgcctggac aatggcacct 120
gggtcctgat ggaccagcac atgggctttc tatgcaacga ggctaagaat cttctctgtg 180

gcttttacgg ccgccatgcg gagctgcgct tcttggacct ggttccttct ttgcagttgg 240
acccggccca gatctacagg gtcacttggt tcatctcctg gagcccctgc ttctcctggg 300

<210> 558
<211> 300
<212> DNA
<213> Homo sapiens

<400> 558
gtactccagg ttgtgtttgt gaatcaagat gaacagcccg ttcaaggcca agaggctgag 60
ggcccccccg aggtcgcagg cgcgggtgag gaagtcgatc atgagcgtgg gctgcgccag 120
ctgcggcagg atggcgtcat gcacaatcag cagcaccttc ttgtagaggc tgaggggcag 180
cttgtgcttg aggaagctga gccacatggc ctggaaaacc ctcctgtgct ccttcaggtg 240
agcaacctct cgtgccgaat tcgaatcgat gggatcctgc aaaaagaaca agtagcttgt 300

<210> 559
<211> 300
<212> DNA
<213> Homo sapiens

<400> 559
gaaaacatct aactaagatg gtttcactgg tgaattcaat caaatattta aggaacacat 60
aataccaaaa ccataacaca tacaaatata tggcccttca gattttgtac ttctttttgt 120
gtcagtgtta ataatacgta tctttcaaag aatatccccc ttttttttg gtagagatag 180
ggttttgcca tgttgttggt agcaagccct aaccctgtca taaacaggcc ttaaataaac 240
tggccataaa caggatttct gcagcaatgg gacatgctca tgatggctgt catgcacact 300

<210> 560
<211> 300
<212> DNA
<213> Homo sapiens

<400> 560
acactgtccc actccatcac ccaggctgga gtccagtggt gtgatcatag ctcgctgcat 60
cctccagttc ctgggttcaa gccatccctc ctgcctcagc ctccccagta gctggaacta 120
caggtgtgtg ccatcacacc tggctttaca tttttctgtg gggtcttact atgttgccca 180
ggccggtctc aaactcctga gctcaagtga tcctctgcct cagcctccag agtatctggg 240
attacatatg tcggctaccg tgtctggccg ttcacatctt tggccactat ttgcttgtga 300

<210> 561
<211> 300
<212> DNA
<213> Homo sapiens

<400> 561
aatgagaaag aaggaggaat ctgaagcctt gggtaaggat ttggggcaca gtaccaggag 60
gggggcttgg tgccagacct catgaggaag aaggattttc ctatgtacag agaaggggac 120
cctgtcctgt tgggaggtgc tgtgcaaacc taaccaagtt actaacccct ctgttttatg 180
tgctacacaa aggggataaa tacaagcttc cctctctagc caattctatt tggttcctga 240
gtttggaaaa gtgatagata ctgattttct atgattttat gaggacttaa ataagctcct 300

<210> 562
<211> 300
<212> DNA
<213> Homo sapiens

<400> 562
ggaggacgag gaggaggacg acgaagagga ggaggaggaa aaggaggtgg aggagcagca 60
gcagcagctg cagcagctaa tatgttgtac ttattctgtg ctgggcaaaa ttctggatat 120
ttttcatgta ctatttaagc ctcacaaaaa tcttatgata taggaaatgc ttgtttccat 180
ttggcacatg aagaaactga agaacagaga aatgatgaaa cttgcgcagg gtagtctgtc 240
cagagtctgt attttaacta ctgctgtgtt gcctcccatt gcatagtgac ttcacgtgta 300

<210> 563
<211> 300
<212> DNA
<213> Homo sapiens

<400> 563
gcctattcag ttcctggtaa gggctgtctt cctggcttgc agttgaacta cttcttgctg 60
tgtcttcaca agcatgcccc catcctgtgc cgataagaac tccagacccc aaactcagct 120
catacacaca cggaagagag aagcatctga acatcaagaa gagaagaagc tgctggacat 180
cagaaactgt gaaaggagag gagtttggct gagctccagg ggaagactgc ctgcacattc 240
tatccccttt tcagttcccc atcctgctgt cagccacatt taccactcaa taaaatcttc 300

<210> 564
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 564
gagaagccaa gggagaggag gaggaggaaa ctaacgattc cctgcccacc cccacaccca 60
gcaccaccaa caggtgggca agcttgccga gaaaacgcag agggcatcct gtgagcagca 120
aacactctga gnnnnnnnaa gacgcagaga agtaaagatc aaagcgctac tncangatcc 180
cgtaccagac tcaagccatg gctggtccct tctccgtctg ctgtccgccc gcccggactc 240
agcttctggt tttggccgag cgggtcttac ccgtgggttt ctgctccgac ggaacctgt 299

<210> 565
<211> 300
<212> DNA
<213> Homo sapiens

<400> 565
cttgagccca ggagttcaag tccaacttgg gcaacatgac aagacccttg tctctttaaa 60
aaagcaactc aaaccatgtc ttgaaaagct atttaatggt cagacacgat ggctcacgcc 120
tgtaatccca gcactttggg aggccgaggc aggcggatca cttgaggtca ggagttcaag 180
accagcctgg ccaacatggc aaaacccagt ctctactgaa tgaaaataca aaaattagct 240
ggcctagcag ttggtggtgg caggtgcctg tagtcccagc tacttgggag gctgaggcag 300

<210> 566
<211> 300
<212> DNA
<213> Homo sapiens

<400> 566
attttgcttc ccttgctcta gagagagtat caaggcccag ggggccaccg gcgaggtgta 60
ttgccccagc ggagagaaat gccccctagt cgggtcgaat gtaccttggg ccttcatgca 120

gggcgaaatc gcgactatct tagctgggga tgttaaagtg aaaaaggaga gagacccttg 180
aaccactggg cagccacctc ctttgcccta gaccagctcc tctccaatcc tgagggcccc 240
tcccccaacc caactcgacc ctccctcccc tcacccccaa ggtgtagaat tgtgaatata 300

<210> 567
<211> 300
<212> DNA
<213> Homo sapiens

<400> 567
tcaagtgtca gaattaactg ttcaaaatgt tctgaatcat gtagatacat ggcaggtaac 60
tgtttatggg agaaaagtac agtgctgtta cgtggcactg tacagtcatg tgccacgtaa 120
cagcgtctgg gtcagtgacg gacacttacc tgacagcgga tccacaatat tctcgtgcag 180
tgtgtttgga atcctggtct gggctctcgt cgttggcctt gtagatcaag taggggaagt 240
gagtgatgtt cagtcatgct gctgggacac ttggttttcc agatgaaaac acataaataa 300

<210> 568
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 568
gctcttgttc tttntgcagg atccntcgat tcgtttaagg aaaaccagca aataacaaga 60
aaaccattta atgtaaagat ttgtaaataa tcacttcaaa agaagtgcct tgttgctgtc 120
acatttagtc catcttcata taattcttat ctgggccagt ttcttgggca tgggacatgt 180
gcagttacac aagcctgtgc tcttaagagg gtcttaccca tagtttaatg ttctgctgtt 240
gtagtcttga aattcttaat gatttaacaa ggggtcctcc attttcattt tgcactgggc 300

<210> 569
<211> 300
<212> DNA
<213> Homo sapiens

<400> 569
aagcagcttg gggctcactc cccctccacc ttgctgacca ccctcatgtt ctttaatacc 60
aagtacttcc tattgaagac agtggaccag cacatgaagc tggccttctc caaggtcttg 120
cgacagacaa agaagaaccc ctctaatccc aaggataaaa gcacgagtat ccggtacttg 180
aaggcccttg gaatacacca gactggccag aaagttacag atgacatgta tgcagaacag 240
acggaaaatc cagagaatcc attgagatgt cccatcaagc tctatgattt ctacctcttc 300

<210> 570
<211> 300
<212> DNA
<213> Homo sapiens

<400> 570
cccaggatga actggttgca gtggctgctg ctgctgcggg ggcgctgaga ggacacgagc 60
tctatgcctt tccggctgct catcccgctc ggcctcctgt gtgcgctgct gcctcagcac 120
catggtgcgc caggtcccga cggctccgcg ccagatcccg cccactacag ggagcgagtc 180
aaggccatgt tctaccacgc ctacgacagc tacctggaga atgcctttcc cttcgatgag 240
ctgcgacctc tcacctgtga cgggcacgac acctggggca gtttttctct gactctaatt 300

<210> 571
<211> 300
<212> DNA
<213> Homo sapiens

<400> 571
gttgctttca aaagacacat atcaccatag tacatgtaat aacacacata ggctcaaagt 60
aaaggggtgg cgaaagatct gttatgcaga tggaaaaaaa gatcaggggt cactattctt 120
gtatcagata aaacagactt tttaaatcaa caacagtaga aaaaggacta gggcattaca 180
taatgaagaa gggttcaatt caacaagatt tatcctatac acacccaaga ttggagcact 240
cagatttcta aaactattat ttctagacct aggaaaagaa ttaaacggcc acataataat 300

<210> 572
<211> 300
<212> DNA
<213> Homo sapiens

<400> 572
gaaagaccga gatagagaga gagacagaga cagagagcga gaccgtgatc gggacagaga 60
aagagaacgc accagagaga gagagaggga gcgtgatcac agtcctacac caagtgtttt 120
caacagcgat gaagaacgat acagatacag ggaatatgca gaaagaggtt atgagcgtca 180
cagagcaagt cgagaaaaag aagaacgaca tagagaaaga cgacacaggg agaaagagga 240
aaccagacat aagtcttctc gaagtaatag tagacgtcgc catgaaagtg aagaaggaga 300

<210> 573
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 573
ggctgcgagg ttttcggctt tggctcctga tatgcagcga cagaattttc ggcccccaac 60
tcctccttac cctggtccgg gtggaggagg ttggggtagc ggaagcagct tccggggaac 120
cccgggcggg ggcggaccac tgccgacctc tnnnnnnnnn nggnacggna ntacnaataa 180
cncnccaccg tacgcgccct natcnnggnc ntaccgtncc aggtgctnnn naagntncac 240
caggccctaa ccggggttct ggcngancnc aatggccctg aangacgccg ncnagcaccg 300

<210> 574
<211> 300
<212> DNA
<213> Homo sapiens

<400> 574
agattatgag catgtagaag atgaaacttt tcctcctttc ccacctccag cctctccaga 60
gagacaagat ggtgaaggaa ctgagcctga tgaagagtca ggaaatggag cacctgttcc 120
tgtacctcca aagagaacag ttaaaagaaa tatacccaag ctggatgctc agagattaat 180
ttcagagaga ggacttccag ccttaaggca tgtatttgat aaggcaaaat tcaaaggtaa 240
aggtcatgag gctgaagact tgaagatgct aatcagacac atggagcact gggcacatag 300

<210> 575
<211> 300
<212> DNA

<213> Homo sapiens

<400> 575
gtccgaagaa aaagactgtg gtggcggaga tgctctctcc aatggcatca agaaacacag 60
aacaagtttg ccttctccta tgttttccag aaatgacttc agtatctgga gcatcctcag 120
aaaatgtatt ggaatggaac tatccaagat cacgatgcca gttatattta atgagcctct 180
gagcttccta cagcgcctaa ctgaatacat ggagcatact tacctcatcc acaaggccag 240
ttcactctct gatcctgtgg aaaggatgca gtgtgtagct gcgtttgctg tatctgctgt 300

<210> 576
<211> 300
<212> DNA
<213> Homo sapiens

<400> 576
aagagaagct gagacttctg cttccacacc ccctgcaagt gctttcttga aggcctgggt 60
gtatcggcca ggagaggaca cggaggagga ggaagatgag gatgtggata gtgaggataa 120
ggaagatgat tcagaagcag ccttgggaga agctgagtca gacccacatc cctcccaccc 180
ggaccagagg gcccacttca ggggctgggg atatcgacct ggaaaagaga cagaggaaga 240
ggaagctgct gaggactggg gagaagctga gccctgcccc ttccgagtgg ccatctatgt 300

<210> 577
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 577
actcgagacg ctgaggcagg agaatcgctt gaacccggga ggcggaggtt gtagtgagct 60
gagatcgtgc cactgcaccc cagcttgggc aacagagcaa aactctgtct ttaaaaaaaa 120
annnnnnnnn nnnnnaacaa acaancaaaa aaaaccttat atggnctggg ctgggcgtgg 180
ngccttatgc ccacaatccc agcnttttgg naggccagga tgggaggatn acttganccc 240
anaantttga naccagcctg ggctacanag tanggccccn tntntacaaa aaaaccttaa 300

<210> 578
<211> 300
<212> DNA
<213> Homo sapiens

<400> 578
ggtagactgg ctagggatcc tggacccagg gttccacgta gcaacacctg ctgagttctc 60
tgggttttct tcctgcctca tgtagcccag acttggagct gaagaagctg gaaacatgga 120
aacaccaaca gctacagacc aaaaaaagtc ccaacaaagg cctgtcagtc tgccagcctg 180
ttctgtggat ttccaactca agattgcagc atcaactcac acctgaagtt ctggcttccc 240
tacaaacttt gaacttgcca gtccccacaa tggcataagc caattcctta aaatgaatgt 300

<210> 579
<211> 300
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 579
ggcagaccat ccacatcagt ttcagagaaa aacaataatc ttgtttgtgc cgtgatgaag 60
aggactgaca gctagcagca gaaacaatag tcacggaggt tgagaacagg ctggttaaca 120
tggtgaaatg ccatctctat taagaataca aaaattagct aggtatggtc gcagacacct 180
gtaatcccag ctccttggga ggctgaggtg nnnnnnnnnn ttgaacccnn gaggnggnag 240
ctgctgtnnn cnngactcgn natatnactg cacctgggng actgcagtga ancttttatct 300

<210> 580
<211> 300
<212> DNA
<213> Homo sapiens

<400> 580
atacactgca tttgctggtg ctgtttttat atagtgaagc aacagctgta cagcaaaata 60
ataaaatact cacttcttcg ttaaaaaaaa aaaaatttac ttcttacaat tctggaggcc 120
aggaagacca tgatcaggtg ccagcatctg ggaagggcct tcttgctgtc ctcccatggc 180
agaagatgga agggcaaggg agagctaaca tgctcccgca aacccttttt ataatggcat 240
caatcaaata tgaggccaga gtccttgtga cctaatcatc tcccaaaagg ctccgcctcc 300

<210> 581
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 581
gtcctaaagc cgctgaagca aaaaccatga taaaacattc tgctttcttt tcttttacaa 60
ccccacgaac gcaaaaaaaa aaaaaaccaa aaccaaacca aaaaaaaaaa nnnnnnnnnn 120
nnnnnnnnnt nttngnngna aaaangggtt ttgnncnngg nannaaccan tnnaantnna 180
aanntnncaa anaggggtna nctttntnnc tnanctttтn aaaangttna tnnnaatnnc 240
cngnnaaanc cancnnggtn tngccntnna aaggtnacct aaa 283

<210> 582
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 582
cccaacnata gccntttcna nnnttaaagg tttttgnant nctgggccnt ncngacgtna 60
nncctnancn nttttttaag cnggtttgcc nngggnncng gtggnnnntn nggggtnntt 120
ggtnnctggg ggcnanancn acttncctnc cccgggccat ncntnnnnnn nnntgtagga 180
aagttcttca ctttttctc tgagggctgg gggttggggg agtcagcatg attatatttt 240
aatgtagaaa atgtgacatc tggatataaa atgaaaataa atg 283

<210> 583
<211> 300
<212> DNA
<213> Homo sapiens

<400> 583
gtcgtcttta atttgtctca tcagtgcctc catgtgtttt tgatgccttt gaactggtat 60
ttttaaaatt tcaatttcta attgttcatt atagaaacac aattgggttt tatatattgg 120
cattgtattt tgcaactttc ctaaactcac tagtaattct agtagctttt tttggtagat 180
tcttaaggat tttctgtgta aatagtcatg tcatttgtga ataaagccat tttttttcc 240
ttttcaaatt ttgtgccttt tatttcttat tcttaccata tcacattggc aaagacctcc 300

<210> 584
<211> 300
<212> DNA
<213> Homo sapiens

<400> 584
aaaatggaga agccaaaatt acagaggcac cagcttctga aaaagaaatt gtggaagtaa 60
aagaagaaaa tattgaagat gccacagaaa agggaggaga aaagaaagaa gcagtggcag 120
cagaagtaaa aaatgaagaa gaagatcaga aagaagatga agaagatcaa aacgaagaga 180
aaggggaagc tggaaaagaa gacaaagatg aaaaagggga agaagatgga aaagaggata 240
aaaatggaaa tgagaaagga gaagatgcaa aagagaaaga agatgaaaaa aaggtaagac 300

<210> 585
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 585
gtccagaaat actctgatac tagctatggt cagcaacatt taatgaaaac ccttatgtta 60
aaaataaacc cctgcctcct ggcttcaagc gattctcctg cctcagcctc ctgagtagct 120
gggagtatag gcacgtacca ccacacccag ctaatttttt gtatttttac tagagatggg 180
tttcacagtg ttagccagga tggtttcgat ctcctgacct catgatccga ccgcctaggc 240
ctcccagagt gctgagatta caggcgtgag tcactgtgcc cggcctcnnn atgttaggaa 300

<210> 586
<211> 300
<212> DNA
<213> Homo sapiens

<400> 586
caagggcctc tggatggaat gtgccacaca cagcacaggc atcacccagt gtgacatcta 60
tagcaccctt ctgggcctgc ccgctgacat ccaggctgcc caggccatga tggtgacatc 120
cagtgcaatc tcctccctgg cctacttctc aagcttccct ccaaagaaac tgattggccc 180
tggaacctcc atcccactct tgttatgact ccacagtgtc cagactaatt tgtgcatgaa 240
ctgaaataaa accatcctac ggtatccagg gaacagaaag caggatgcag gatggaggac 300

<210> 587
<211> 300
<212> DNA

<213> Homo sapiens

<400> 587
ggactaactt acagaggagc tgtgtatcct gaagattcag cgactggcaa ggaatttcct 60
tgggagcaat gtgtgaggga ggccatctga ggagatctgt ggctttcttt tgttgtggga 120
atctggctta tggatgaatc tacgacacag gattgtgaaa ttacagctct ttgggaacaa 180
aaggaaggca gtattgcatg acttagtttc ccagcttcac tttccctttg gcatggtgag 240
tttggggtct tgagagtcta ttttctttca cacccatcag cactgttaag taagcaggaa 300

<210> 588
<211> 300
<212> DNA
<213> Homo sapiens

<400> 588
aaaaacctgg gtatgtatct agaagtggaa aaacaaaaaa aggaaataag ttatgaaaat 60
aaaaaccatg tcttgagctg ggtgcgctgg tgtgtgccta tatccctaga ttctcaagag 120
gttgagacag gaggatcact tgagcccagg agttcaagtc caacttgggc aacatgacaa 180
gacccttgtc tctttaaaaa agcaactcaa accatgtctt gaaaagctat ttaatggtca 240
gacacgatgg ctcacgcctg taatcccagc actttgggag gccgaggcag gcggatcact 300

<210> 589
<211> 300
<212> DNA
<213> Homo sapiens

<400> 589
cctcctactc ccaaacaaat ctttggggaa aaaaaaacta ccaactgtca gccatgggcc 60
tgacggcgct aagctctggg gctccgtgca ctgacgtggg gccagccaca gggaggcggg 120
gatcaagtag cggaggccag gattttggcc acctcccggg caagttgcag ggcagtggcg 180
ccgggagcaa aagcagcatg atgcagctca tgcacctgga gtcctttat gaaaaaacct 240
cctcctgggc ttatcaagga agatgacact aagccagaag actgcatacc agatgtacca 300

<210> 590
<211> 300
<212> DNA
<213> Homo sapiens

<400> 590
ggggcggagg cgggagaggc gagctcgcga tgagtggtct cggcaggctc ttcgggaagg 60
ggaagaagga gaaagggcca acccctgaag aagcaataca gaaactgaag gagacagaga 120
agatactgat caagaaacag gaatttttgg agcagaagat tcaacaggag ctacaaacag 180
ccaagaagta tgggaccaag aataagagag ctgccctaca ggctttgcgg aggaagaaaa 240
gattcgaaca gcagctggca caaactgacg ggacattatc caccctggag tttcagcgtg 300

<210> 591
<211> 300
<212> DNA
<213> Homo sapiens

<400> 591
gagaagctga cgggcatgtg gtggaaacag ctggtggccg gcgcagtggc aggtgccgtg 60
tcacggacag gcacggcccc tctggaccgc ctcaaggtct tcatgcaggt ccatgcctca 120
aagaccaacc ggctgaacat ccttgggggg cttcgaagca tggtccttga gggaggcatc 180
cgctccctgt ggcgcggcaa tggtattaat gtactcaaga ttgcccccga gtcagctatc 240
aagttcatgg cctatgaaca gatcaagagg gccatcctgg ggcagcagga gacactgcat 300

<210> 592
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 592
gaaatgtgta tttcagtgac aatttcgtgg tctttttaga ggnnnnnnnn nnnatatcct 60
tggctttnta ggcnatatgc tcanagtgcg acagcggnac cntgccctca natncttacn 120
naagctttga ntaggnccat nnnnngctac ntccctgaan tcctnccnnc cctcactggc 180
tgccctnaca ngccanctga cgantgncct taaaggcatt aacncgcntc nnttgtggng 240
tcctcnggct tanggagnna agaggtggct cttga 275

<210> 593
<211> 300
<212> DNA
<213> Homo sapiens

<400> 593
tgacattgtc agtgtgaaat ttaacagact ttggttttag gagttaggtt taggttgcag 60
acctaaagtt gcagttgaca tgtccttgtt ttataggagg atatacatcc tgaaagtttt 120
agggactggc aaagaattta ctgctgagca atttgtgatt gcagtcacct ggagattcat 180
gaggcttttt gccttttttgt ggggatctgg ttaatgcata atattttgac acaaggttgc 240
aaggtaacag gtatccattt gggaaaagaa tgacagtttt ggagaacatt agttctgcag 300

<210> 594
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 594
acctaagact gctttgaaac ataaagtaat aatnaaanaa atgggctggg tgtggtggnt 60
tatgcttata atcctagcnc tttgggaggc tgaggcggga ggatcntttg agctcaggag 120
tttnagaccn gtttgggcgg tcccagttat caggaggctg aggtgagagg gattacttgt 180
gcccaggagg tcaaggctgc agtgagctgt gattgtgcca ctgtactcca gccctggcaa 240
cagagagaga accctgtctc aaaagaaagg gggggggagg aacggaggaa gggaaggagg 300

<210> 595
<211> 300
<212> DNA
<213> Homo sapiens

<400> 595
attatggtgg aaggggaagc aaatgcccta cttcacatgg tggcaggaag gagaagaatg 60
agaaccaaat gagggagaag ccccttataa aaccatcaga tcttgtgaga acttactatc 120
atgagaatag catgggggaa actgccctgt gattcaatta cttcccacta ggtcactccc 180
accatacatg gagattatag gaactacaat ttaggatgag atttgggtgg gaacacagcc 240

aaaccatatc aagtattaac agcagaatta accaagctga ggaaagactc tcagagctca 300

<210> 596
<211> 300
<212> DNA
<213> Homo sapiens

<400> 596
gcataacgaa cctaaccctc agaggtttac caagattcaa aacacgaagc tgaccatgaa 60
gcgggacggc attgggtcag tgcggtacca ggtcttggag gtgtctcggc aaccactctt 120
caccaatatc acagtggaca ttgggcggcc tccgtcgtgg ccccctcggg gctgacacta 180
atggacagag gctctcggtg ccgaagattg cctgccagag gactgaccac agcctggctg 240
gcagctgctc tgtggaggac ctccaggact gagactgggc tctgttttcc aagggtcttc 300

<210> 597
<211> 300
<212> DNA
<213> Homo sapiens

<400> 597
agacaaccca gaaacaaatt catacatcta tggtgaccac ttttgacaaa ggaatgaaga 60
acatacactg gggaaaagat aatgtcttta ataaatggtg ctgggaaaac tggatatcca 120
tatgcagaag aatgaaacta gacccccatc tcttagcata tacaaaaatc aaaattaatt 180
aaaaagttaa atctaagacc tcaaactatg aaacagctaa aagaaaacat cggggaatct 240
ctccaggaca ttggagtggg caaagatttc ttgtgtaata cctgacaaac aggcaaccaa 300

<210> 598
<211> 300
<212> DNA
<213> Homo sapiens

<400> 598
ggtatttgtt cttgaaccac acccgttcga tcctagagtt ctcttttctg ctggtcatga 60
tggaaacgtg atagtgtggg atctggcaag aggagtcaaa atacgatctt atttcaatat 120
gattgaaggc caaggacatg gcgcagtatt tgactgcaaa tgctctcctg atggtcagca 180
ttttgcatgc acagactctc atggacatct tttaattttt ggctttgggt ccagtagcaa 240
atatgacaag atagcagatc agatgttctt tcatagtgat tatcggccac ttattcgtga 300

<210> 599
<211> 300
<212> DNA
<213> Homo sapiens

<400> 599
agaaagatca ctgctgttta cagcgccttg tgcagcctta gattttaata ttcttttgtc 60
attgttacat ctcatagagt aaagctctta ttaccttgat cctgagtcag aaatcccacc 120
tgaaatcacc ttttttcccc cttgatcaaa catcccatcc ttcagctacc atactgttgc 180
tacagggatt ttgtggactg tggcccctgt cccgaggttg gcaccttcag ttcagcacag 240
cctgagcagt gagaaggtct gaaaggagag tatatagtta agatccttga gaaagggctg 300

<210> 600
<211> 300
<212> DNA
<213> Homo sapiens

<400> 600

tttggattga ttcaggagaa atttgcactg atggctcaga aggcttacgt catggagagt 60
atgacctacc tcacagcagg gatgctggac caacctggct ttcccgactg ctccatcgag 120
gcagccatgg tgaaggtgtt cagctccgag gccgcctggc agtgtgtgag tgaggcgctg 180
cagatcctcg ggggcttggg ctacacaagg gactatccgt acgagcgcat actgcgtgac 240
acccgcatcc tcctcatctt cgagggaacc aatgagattc tccggatgta catcgccctg 300

<210> 601
<211> 300
<212> DNA
<213> Homo sapiens

<400> 601
ggatattcat taccctgaga atgaaatgac ctgcaattcg aaaatcagct gtatcagttg 60
gagtagttac cataagaacc tgttagctag cagtgattat gaaggcactg ttatttttatg 120
ggatggattc acaggacaga ggtcaaaggt ctatcaggag catgagaaga ggtgttggag 180
tgttgacttt aatttgatgg atcctaaact cttggcttca ggttctgatg atgcaaaagt 240
gaagctgtgg tctaccaatc tagacaactc agtggcaagc attgaggcaa aggctaatgt 300

<210> 602
<211> 300
<212> DNA
<213> Homo sapiens

<400> 602
gccttttgtg gggtctcata cataactcag tttccacaaa gctgtgcccc agctcagccc 60
tatggataga agcatggtct ggggttcctt tgctgaccag ggtgtgtgct ttgtccaagt 120
tactgacctt cccaaacctc atcaatgcac ataaaaagag cacttgcaaa caatgaatct 180
agacatggac cttcacaaag aaataactca aaatggatcc caggcctaaa tgaaaaatga 240
aaaactataa aactcctaga agataacata aaagaagatc tagatgacct agggtttggc 300

<210> 603
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 603
ttaatatggg aacnccngtt tctaactgtc atcncccccn ccccaacacc cccaanncag 60
cagttttntt cacccgctgc agccgttccg tnccaaacan agggccncnc anannccccn 120
cgntntatat aaggaggaaa acgggaaaga atataaagtt aaaaaaaagc ctccggnttc 180
cnctactgng tanactcctg ntttttcaag cncctgcaga ttttgatttt tttgntgntg 240
ttgttntccn ccnttgctgn tgntgcaggg gtactattgt ttaaaaacag gaaaaaaaat 300

<210> 604
<211> 300
<212> DNA
<213> Homo sapiens

<400> 604
cttactttga tcctcgtgag gcatacccag atggaagtag caaagaaaag agaagagcag 60
cagttgccca ggccttagct ggcgaagtca gtgtggtgcc tccatctcgt ctcatggcat 120
tgctgggaca ggcactgaag tggcagcagc atcagggatt gcttcctcct ggtatgacca 180

tagatttgtt tcgaggcaag gcagctgtca aagatgtgga agaagaaaag tttcctacac 240
aactgagcag gcatattaag tttggtcaga aatcacatgt ggagtgtgct cgattttctc 300

<210> 605
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 605
gaacattcgg actcgagata atcgtcgcct tggggagtgg gacttgcctg aggctgtgca 60
gctgactggt ggagctaccg aacacgaggg tcccatatgc ccgaagaaaa tttctggccc 120
tttgtacata catgacgcca accactgcga gtgccatcag ctctctcttg ttgnnnnnnn 180
cccccgnnat gntgacgntg nngannnctt anaccntttt nnnnctnnga aaggaggnnt 240
gattgcngnt nccctgagat ntggcttccc aagagcactt attgaccctt cctcaggcct 300

<210> 606
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 606
cccccggant aaggntgnnn tatnntnncc anaaaaaann gggncnatna tgngntcgng 60
aaggntnngg aacaacaagg actgcntnat tggaagnggn cncaggnttg aanccaaagn 120
taaangagtg aatnaggtgn tnntggggaa tgaccngctc atggagatnt gagttctgag 180
caagtcagac tccttccttt tggcctccaa agccacagat gttgcccggc ccacctgttt 240
aactctgtat ttatttccca ataaagaagg gcttccaaag gcatgctgga gacttgtg 298

<210> 607
<211> 300
<212> DNA
<213> Homo sapiens

<400> 607
atggtgtttt cacctggaag ctgagaagaa aggggcttta atggaacaaa tagcacatca 60
agctgttgta atgcagttta ttatggaaat ggccaaaaac tgtaatgtgg atccaagagg 120
gtgtttttcgt ttatttttcc agaaagccaa agcagaggaa gaaggttatt ttgaagcatt 180
caaaaatgaa cttgaagctt tcaagtcaag agtaagactt tattctcaat cacaaagttt 240
tcaacctatg acagttcaga atcatgttcc ccattctggt gttggatcta taggtttatt 300

<210> 608
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(296)
<223> n = A,T,C or G

<400> 608
atccaggtgt ttctgatgca cagtgaaatt ggggtaccac tggtattagg ttgggtatgg 60
caacttttc atcacttgtt ttatgtagtt gtctgatcaa ttgtgaaaac ataatgaatg 120
ttggaaatgg aacagtaaaa taacgaaagc caacttttt ttttttttt ttnnnnnnnn 180
nnnnnnnnnt tnnccccng ncngnanngc aggggcccaa nntnggntnn ntgnanccnc 240
cnccnccggg ntnnnccccct ttntcnngcc taacccnccc nagnacnngg aactac 296

<210> 609
<211> 300
<212> DNA
<213> Homo sapiens

<400> 609
cgacaatcag tgattttgct gtatttctca caatagtaat aatggttaca attgactacc 60
ttgtaggagt tccatctcct aaacttcatg ttcctgaaaa atttgagcct actcatccag 120
agagagggtg gatcataagc ccactgggag ataatccttg gtggacctta ttaatagctg 180
ctattcctgc tttgctttgt accattctca tctttatgga tcaacaaatc acagctgtaa 240
ttataaacag aaaggaacac aaattgaaga aaggagctgg ctatcacctt gatttgctca 300

<210> 610
<211> 300
<212> DNA
<213> Homo sapiens

<400> 610
agaataacta ccagacaaca tttgttaaaa ctcaggacag tatgtatttt aaataagcaa 60
gtgcatgtgt gaaaatggct cattcagttt ataaaatatt acattaaatt tgaggtttct 120
gttttttttc ttttgtgaca gtcttgctct gttccccatg ctgtattgca gtggctccag 180
ttcacctcac tgtaacttcc acatcctggt ttcaagcaat ttgtgcctca gcctcccaag 240
tagctgggat tacagtcatg ccaccatgtc cagataattt ttatattttt ttgtatagat 300

<210> 611
<211> 300
<212> DNA
<213> Homo sapiens

<400> 611
agatgggtta aaacttaaat gtcacatctg aaacagtaaa aatcctagaa gaaatcctag 60
gaaaaactct tctggacatt ggcctaggca aagaatttat gatgaagacc tcaaaagcaa 120
acataacaaa accaaaaata gacaaatgag atttaattag aaaaacttct gcacagtaaa 180
agtaataatc aacagttaat agacaaccta tagaatggga gaaaatatat gtaaattata 240
catctgacaa agaactaata tccagaatct acaaagaact caacaagaaa aaaaccaacc 300

<210> 612
<211> 300
<212> DNA
<213> Homo sapiens

<400> 612
tcctggctgt taggatttgt tcgtgtttgg gagaccttta gagcgtggtt aaacccatat 60
gttgggattt atgctgcttt tatggtagca ataccctata ttaagatttg aagtagaccc 120
ggaaagttag tggccggtta gctcagttgg ttagagcgtg gtgctaataa cgccaaggtc 180
gcgggttcga accccgtacg ggccagtggg tggctttttt ttgtgtgtgt tttgttttct 240

gaccctctgc tgttatccgg aagtttctac ccggagccag ttgccttctg gtaacagaat 300

<210> 613
<211> 300
<212> DNA
<213> Homo sapiens

<400> 613
aaaacataat ttctgtttca tggagatgaa tacaaggctg caagtggaac atcctgttac 60
tgagatgatc acaggaactg acttggtgga gtggcagctt agaattgcag caggagagaa 120
gattcctttg agccaggaag aaataactct gcagggccat gccttcgaag ctagaatata 180
tgcagaagat cctagcaata acttcatgcc tgtggcaggc ccattagtgc acctctctac 240
tcctcgagca gacccttcca ccaggattga aactggagta cggcaaggag acgaagtttc 300

<210> 614
<211> 300
<212> DNA
<213> Homo sapiens

<400> 614
agacagtcaa gctgcattgc aacactgcat gtctgactaa cagcatacat tgtcctgaag 60
aagcatctgt agggaatcca gaaggagcgt tcatgaagat gttacaagcc cggaagcagc 120
acatgagcac tcagctgact attgagtcgg aggcgccctc agacagcagt ggcatcaact 180
tgtcaggctt tgggggtgat cagcttgaaa ttcagctaac cgagcagcta cggtccctca 240
tccccaacga ggatgtgaga aagttcatgt ctcatgttat ccggaccttg aaaatggaat 300

<210> 615
<211> 300
<212> DNA
<213> Homo sapiens

<400> 615
tgggacatgc tcatgatggc tgtcatgcac actgcgaaaa gttgttggtt tactggagca 60
gggcaaggaa cacctggccc cgcccggagc aaaaaactgc tcaaaccaca aacgatagca 120
ggaaaggcct gtgccttggc agcatgtttt tgctgcagat aatcagccag agcctgtttc 180
tctgctcctc gctgagattg ctttgtttcc cataaagatt gcttttagct aatctacaat 240
ctatagaagc aatgcttatc actggctttc tgtcaataaa tgtgtgggtc aagctctgtt 300

<210> 616
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 616
gctacctggg cggcgacggg ctggacgtgg acgtgcccac gcgtctggag ggctggttct 60
tctgcacgcc cgcccgcaag ctgctctggc tggtgctgca gcccttcttc tactcactac 120
ggccgctctg cgtccacccc aaggccgtga cccgcatgga ggtgctcaac acgctggtgc 180
agctggcggc cgacctggcc atctttgccc tttgggggct caagcccgtg gtctacctgc 240
tggccagctc cttcctgggc ctgggcctgc accccaatng gggccacttc gtggccgagc 300

<210> 617

<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 617
ngnnattgag cccnttgaat cnagctactt gttctttttg caggatccca tcgagtccat 60
ctcatatgag tgagaaagct taccagtgca gcgaatgtgg gaaagccttc cgagggcact 120
cggacgtttt ctaggcatca gagtcaccac agcagtgaga ggccttatat gtgtaatgaa 180
tgtggaaaag ccttcagcca gaactcgagc cttaaaaagc accaaaagtc tcacatgagt 240
gagaagccct atgaatgcaa tgaatgtggg aaggctttta ggcggagctc aaacctcatc 300

<210> 618
<211> 300
<212> DNA
<213> Homo sapiens

<400> 618
ccccaacctg cactctaccc acccccatca cctactccag ctcccaactt ttgtggactg 60
agcggccgca gagactgggt cgccttggat tccctctgcc tccgaggacc ccaaaagaca 120
cccccaaccc caggccagcc ggccctgctc tggcgcgtcc aaaatactac ctagcacagg 180
cctctgctcg aggcaccccc aaactaccta tgtatccagc cccagagggc ctccattccc 240
aggaagtccc tatgtatccc aacactggca gacacccagc accacccctcc cagacccgca 300

<210> 619
<211> 300
<212> DNA
<213> Homo sapiens

<400> 619
aattccgttg ctgtcgaatt gttcctgtcc tgccccaact gatcaatcga ccttgtgaca 60
ttcttcttct ggacaatgaa tcttatgatc tccccaccat ggaccctgtg acccccctcct 120
ctgctgacaa tagataacca cctctaactg taacattcca ctgcctacct cagtcctata 180
aagctgcccc tctcctatct accttcgctg actctctttt cgtactcagc ccacttgcac 240
ccaagtgaat aaacagccct gttgctcaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

<210> 620
<211> 300
<212> DNA
<213> Homo sapiens

<400> 620
agaatacaag ctacttgttc tttttgcagg atcccatcga ttcgaattcc gttgctgtcg 60
aattgttcct gtcctgcccc aactgatcaa tcgaccttgt gacattcttc ttctggacaa 120
tgaatcttat gatctcccca ccatggaccc tgtgaccccc tcctctgctg acaatagata 180
accacctcta actgtaacat tccactgcct acctcagtcc tataaagctg cccctctcct 240
atctaccttc gctgactctc ttttcgtact cagcccactt gcacccaagg aataaacagc 300

<210> 621
<211> 300
<212> DNA
<213> Homo sapiens

<400> 621
actatagaat acaagctact tgttcttttt gcaggatccc atcgattcga attccgttgc 60
tgtcgaattg ttcctgtcct gccccaactg atcaatcgac cttgtgacat tcttcttctg 120
gacaatgaat cttatgatct ccccaccatg gaccctgtga ccccctcctc tgctgacaat 180
agataaccac ctctaactgt aacattccac tgcctacctc agtcctataa agctgccct 240
ctcctatcta ccttcgctga ctctcttttc gtactcagcc cacttgcacc caagtgaata 300

<210> 622
<211> 300
<212> DNA
<213> Homo sapiens

<400> 622
gtgggagggg gtagggggag gaagtctgtg gtgagcaaag tttgccttat tacactgata 60
aagtgtaatt acactaataa agctggatca cctgaggtta ggagtttgag agcagcctgg 120
ccaacatggc aaaaccctgt ctctactata aatacaaaaa ttagccaggt gtggtggcag 180
ggcacttgtg atcctatcta ctcgggaggc tgaggcagga gaatcgcttg aacccaggct 240
gtaaaggttg cagtgagcca agatcatgcc actgcactcc agtctgggtg tcagaatgag 300

<210> 623
<211> 300
<212> DNA
<213> Homo sapiens

<400> 623
caatctcaaa gctggtcgag aaaccacagt ataaatcagt tactggacaa acttgaaatc 60
atggtggaag aaacagacag tgttagctca tgatttgatt tggttctacc tttggccttg 120
agttcttatt atttacatta taaatattaa ctggttttat attgttaaga caaaacactg 180
gtaaaagttt caacacctcc cttttgcttg tataccataa atgggcagtt tctgaaattt 240
tggataaagc atcaagaact ccttttttctg aaacgttcct ccttttttag tgcctaatta 300

<210> 624
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 624
gtgaaagagt tcatgacctc cttgcgccgg gcctggtgct ctgcgatcaa gggctgcaga 60
acctgtatga gtgccttctt gagctcaccg gtgagcatgg ctccgctggt gtaatccttc 120
ctgatctgct cgagcttgtn nnnnacctgg aggnntangg tatnnnncat nnttnanang 180
cncgnatnat nctgnancta cncngtctgn nacggtattn angncnantn ctatnatgna 240
annnannntn ngngnctntn c 261

<210> 625
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)

<223> n = A,T,C or G

<400> 625
ttttttgag acggagtctt gttctgttgc caggctggag tgcggtggtg caatctcagc 60
tcactgcaat ctccacctcc tgggttcaag aggttctcct gcctcagcct cctgagtagc 120
cggggagcta caagcatgca ccaccacacc cagctaattt ttttttttt nnnnnnnnnn 180
nnnnnntgtc ncccaggctt gagtgcaggg gcncnatctn ggntnantgn aanntntgtc 240
tccngggttn atgccnttct cctgnttnan cntcccnant antcccagga ntagctgg 298

<210> 626
<211> 300
<212> DNA
<213> Homo sapiens

<400> 626
ggtaaggatt tggggcacag taccaggagg ggggcttggt gccagacctc atgaggaaga 60
aggattttcc tatgtacaga gaaggggacc ctgtcctgtt gggaggtgct gtgcaaacct 120
aaccaagtta ctaacccctc tgttttctgt gctacacaaa ggggataaat acaagcttcc 180
ctctctagcc aattctattt ggttcctgag tttggaaagt gatagatact gattttctat 240
gattttatga ggacttaaat aagctcctat ggaaagtgtt ttgtgcagtg ccgtgcccat 300

<210> 627
<211> 300
<212> DNA
<213> Homo sapiens

<400> 627
gcgacatctg tcaccccatt gatcgccagg gttgattcgg ctgatctggc tggctaggcg 60
ggtgtcccct tcctccctca ccgctccatg tgcgtccctc ccgaagctgc gcgctcggtc 120
gaagaggacg accatccccg atagaggagg accggtcttc ggtcaagggt atacgagcgc 180
cgtaattgac acatctctta tttgagaagt gtctgttgcc ctcattaggt ttaattacaa 240
aatttgatca cgatcatatt gtagtctctc aaagtgctct agaaattgtc agtggtttac 300

<210> 628
<211> 300
<212> DNA
<213> Homo sapiens

<400> 628
ggatgaccca tgccaaaaat actatgagct cttactagtc aacctattt ggttggtccc 60
accaacaaag gcacttgcag ttacattcac cacatttgta acggagccat tgaagcatat 120
tggaaaagga actggggaat ttattaaagc actcatgaag gaaattccag cgctgcttca 180
tcttccagtg ctgataatta tggcattagc catcctgagt ttctgctatg gtgctggaaa 240
atcagttcat gtgctgagac atataggcgg tcctgagagc gaacctcccc aggcacttcg 300

<210> 629
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 629

ggtggtntna gtggnanaag gatcgcagtg gagacnngtg cnaatagggn gatcctggta 60
aggtgctnat gtcatgctgc aatgtccanc agcagnaggn ntttgatgtn angngcngga 120
gnngagtgga ccaggggtgc tgtgtnatna nttgattcag nggcttatgg catcactgcc 180
ttctgttncc gggggagcat ggatctagat gtcctcgcct ctgaaaacca agtgtcagag 240
ccccttcccc ttgtttttat tttactgtta taataattat taacttcctt gtaat 295

<210> 630
<211> 300
<212> DNA
<213> Homo sapiens

<400> 630
tggtctgctc accagaggtt cttcaaatac ttatgcatag catccaaagt taaaagggtt 60
gtgcaactag ctcgagagga aatcaagaat ggaaaatgtg ttgtaattgg tctgcagtct 120
acaggagaag ctagaacatt agaagctttg gaagagggcg ggggagaatt gaatgatttt 180
gtttcaactg ccaaaggtgt gttgcagtca ctcattgaaa aacattttcc tgctccagac 240
aggaaaaaac tttatagttt actaggaatc gatttgacag ctccaagtaa caacagttcg 300

<210> 631
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 631
gcctagggcc ccctagcacc ccactcgatc accgagggta ccagtccctg tcagacagcc 60
ccccgggggc ccgagtcttc actgagtcag agaagaggcc actcagcatc caagacagct 120
tcgtggaggt atnnnnnnnn nnnnnnnggc cnctggttca tgatntggnt nntanatgca 180
anaggctgtg gctnctnaag tcctaaggat tnctcantga tcanngatcc agggccgttc 240
atgaaccact gggctggatt tgactgttga ntgtggnagn aaatgcccgt 290

<210> 632
<211> 300
<212> DNA
<213> Homo sapiens

<400> 632
gtggggtcag ttctggtctg ctcaccagag gttcttcaaa tacttatgca tagcatccaa 60
agttaaaagg gttgtgcaac tagctcgaga ggaaatcaag aatggaaaat gtgttgtaat 120
tggtctgcag tctacaggag aagctagaac attagaagct ttggaagagg gcgggggaga 180
attgaatgat tttgtttcaa ctgccaaagg tgtttgcagt cactcattga aaaacatttt 240
cctgctccag acaggaaaaa actttatagt ttactaggaa tcgatttgac agctccaagt 300

<210> 633
<211> 300
<212> DNA
<213> Homo sapiens

<400> 633
cacagtcctt ctggaagcca gacccgaagc cacagtagca gtgccagctc agcagagagt 60
caggacagca ggaagaagaa gaagaagaag gaaaagaaaa aacacacaga aacatataaa 120
gcataagaag cataagaaac atgcaggcac tgaagtggaa ttggaaagac gccatctaca 180

cgaccacagg aaccagaaga ggacctacac tcagattaga gcgtgaggaa gtgagttctt 240
ggagacgtgc tgatgacagg aaagatgacc gggtggaaga gcgggaccct cctcgtcgag 300

<210> 634
<211> 300
<212> DNA
<213> Homo sapiens

<400> 634
cccacactcg gacactgtgg aattctacca gcgcctgtcg accgagacac tcttcttcat 60
cttctactat ctggagggca ctaaggcaca gtatctggca gccaaggccc taaagaagca 120
gtcatggcga ttccacacca agtacatgat gtggttccag aggcacgagg agcccaagac 180
catcactgac gagtttgagc agggcaccta catctacttt gactacgaga agtggggcca 240
gcggaagaag gaaggcttca cctttgagta ccgctacctg gaggaccggg acctccagtg 300

<210> 635
<211> 300
<212> DNA
<213> Homo sapiens

<400> 635
ccaggctagt cttgaactcc tggcctcaag caatcctccc acctcggcct cccaaagtgc 60
tgggattaaa ggcgtgagcc accgtacctg gcccttggtg gaatctttag ggttttctat 120
tcatacatat aaaatcatat cattggcaaa cagagataat tttacttcct cctttccaat 180
ttggatgcct tagatttctt ttccttgcct aactgctctg tctagaactc ccagcactat 240
gctgaataga gtggcaagag caggcatttg ccttggtcct aaccttacag aaaaatcctt 300

<210> 636
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 636
gctgcccaac acgctgtttg gggatgtggc catggtggtg gaattcttga gctgttattc 60
tgggctactt ttaccagatg ctcagtatcc tattactgct gtgtcccttа tggaagcctt 120
gagtgcagat aagggtggct ttttatacct taacagggtg ttggtcatcc tcttacagac 180
cctcctacaa gatgagatag cagaagacta tggtgaatag ggaatgaagc tgtcagaaat 240
ccccttgact ctgcattctg tttcagagct ggtgcggctc tgcttgcnca gatctgatgt 300

<210> 637
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 637
ctttgcagct ccccttccac tgagagccac ttccaccatt taataaaatc gtccacatcc 60

atcaactttc aaaccattca tgcaacctga ttcttcctgg atgctgaaca agaacctggg 120
taccaacagg gcagggtgta aaaggctgcc accctgactc tccttgagtg ggtnnnnnnn 180
nnnctgtccn ggatggcaac tgctaaaaga gcntgaattg taacacatcc ctaaatgcgc 240
tgttgggctg gagcccaaaa gtgctcatcg aagccctggc acccgcttgc ctgcgtgctc 300

<210> 638
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 638
aacctatctg catggacctc tgtggaccac agcgtacctg ccccttttctg ccctcctgct 60
ccagccccac ttctgaaagt atcagctact gatccagcca ctggatattt tatatcctcc 120
cttttcctta agcacagtgt cagaccaaat tgcttgtttc tnnnnnnngn actacannna 180
tatgnatnct ggtncgctgg gcaagttcac tgngcccatg ctgaaagagg cctgccgggc 240
ttangggctg aagagtggtc tgaanaanca ngaactgctg gaanccctca ccaagcactt 300

<210> 639
<211> 300
<212> DNA
<213> Homo sapiens

<400> 639
agttttcctg tgattagtgt ttttggtgtt gttttatttt ttttcttaca ggaactcttg 60
caagaagaaa ggactatgag ttcaacttta gagggagcca tggggactaa acaaaattct 120
gaggcccccc caaccatcta aatggacttc cttctgggcc aggacactcg aaaattaaac 180
ctgaaagact ggttcaggcc atgatgggaa gtgggagtcg aacatgcctc atcataccct 240
ccagcattaa catcaacaca gaccttaagg ctgataagaa gcatttacaa tctattctct 300

<210> 640
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 640
gttagctcga ggggcaaata aagagcacag gaatgtttct gattacacac ctctaagtct 60
ggctgcttct ggtggctatg tgaacatcat caaaatatta ctaaatgcag gagctgagat 120
taactctaga actggtagca aattgggcat ctctcctctg atgttagcag ctatgaatgg 180
gcatacagct gctgttaagc tcctgttaga catgggctct gacataaatg ctcagataga 240
aaccaatcgg acactgnnnn nnnnnnnnnn ngcttccaag gaagaactga agtggttag 299

<210> 641
<211> 300
<212> DNA
<213> Homo sapiens

<400> 641
cagagacctg acagtggcaa tgtatggcca cgttactgaa tctacatgtt gcaagagaaa 60
aactagcaga tgttcttggc agccctgtca ttcagctata ttgctaaagc actaggtgga 120
atcattatga aaatttccat cactcaaata gaaaggagat ttgacatatc ctcttctctt 180
gctggtttaa ttgatggaag ctttgaaatt ggaaatttgc ttgtgattgt atttgtaagt 240
tactttggat ctaaactaca cagaccgaag ttaattggaa ttggttgtct ccttatggga 300

<210> 642
<211> 300
<212> DNA
<213> Homo sapiens

<400> 642
gagagcttgg gatgtggtaa tgccagccac actcctggga gccgtggcca gatctcggca 60
tatattatca aaagcacatc agtgccgaag aatcggtcat ctaatgttaa aaccacttaa 120
ggaatttgaa aatacaacat gcagcacact gacaatacgt caaagcttgg atttgttcct 180
tcctgataaa acagctagtg gtttgaataa gtctcagatc ctggaaatga accaaaaaaa 240
gtcagatacc agcatgctgt ctccattaaa tgctgctcgt tgccaagatg aaaaggcaca 300

<210> 643
<211> 300
<212> DNA
<213> Homo sapiens

<400> 643
gcctgccaga atggaagcat acagatctgg gaccgaaatt tgactgttca tcctaagttc 60
cactataaac aggctcatga ctcgggcaca gacacttctt gcgtgacttt ttcctatgat 120
ggtaatgtcc ttgcctctcg tggaggtgac gattcattaa aattatggga catccgacaa 180
tttaataaac cacttttttc agcctcgggt cttcccacca tgttcccaat gactgactgc 240
tgtttcagtc cagatgataa gctcatagtc actggtacat ctattcaaag aggatgtggc 300

<210> 644
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 644
ccggagagaa gcagcaggag ggcggcggcg ccgtgcgctg cgacacacct gccaactgca 60
cctatcttga cctgctgggc acctgggtct tccaggtggg ctccagcggg tcccagcgcg 120
atgttnnnnn nnnnnnnntg gcaattaaca acatcttaaa actgactcag ctcacccagt 180
cttccatgta ttcacttcct aatgcaccct ctctggcaga cctggaggac gatacacatg 240
aagcctgtga tgatcagcca gagaagcctc actttgactc tcgcagtgtg atttttgagc 300

<210> 645
<211> 300
<212> DNA
<213> Homo sapiens

<400> 645
actgttcatc ctaagttcca ctataaacag gctcatgact cgggcacaga cacttcttgc 60
gtgacttttt cctatgatgg taatgtcctt gcctctcgtg gaggtgacga ttcattaaaa 120

ttatgggaca tccgacaatt taataaacca ctttttttcag cctcgggtct tcccaccatg 180
ttcccaatga ctgactgctg tttcagtcca gatgataagc tcatagtcac tggtacatct 240
attcaaagag gatgtggcag cggcaaactt gttttctttg agcgtaggac tttccaaagg 300

<210> 646
<211> 300
<212> DNA
<213> Homo sapiens

<400> 646
gcgacatcag aagatcattg aggaggcccc agcgcctggt attaaatctg aagtaagaaa 60
aaagctggga gaagctgcag tcagagctgc taaagctgta aattatgttg gagcagggac 120
tgtggagttt attatggact caaaacataa tttctgtttc atggagatga atacaaggct 180
gcaagtggaa catcctgtta ctgagatgat cacaggaact gacttggtgg agtggcagct 240
tagaattgca gcaggagaga agattccttt gagccaggaa gaaataactc tgcagggcca 300

<210> 647
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 647
ggtgactgcc atcctggagc cctacccctg catccacttc cctctggcca catatgcccc 60
tattatctct gctgaaaaag cctaccatga acagctttct gtagcagaga taaccattgc 120
tatgctttnn nnnnnnnnac ctgatgntaa nanntgaacc tcnntgcggt tnttncannn 180
tttnnntntc nantcnnnna cgtcttgntt nntnctttnnt nntttctcgc annantttnn 240
natntcntnn cctttgnttt tncntcttct tnnntaat 278

<210> 648
<211> 150
<212> DNA
<213> Homo sapiens

<400> 648
ccccggtcgt gtagcggtgg tatactacgg tcaatgctct gaaatctgtg gagcaaacca 60
cagtttcatg cccatcgtcc tagaattaat tcccctaaaa atctttgaaa taagggcccg 120
tatttaccct atagcacccc ctctagaggg 150

<210> 649
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 649
gaagaangcc tatncnnnct attagctana natagtcnnt nnnaatanga naganangtn 60
acnnanaang cnananngnn nnagagatag ctcnacntaa agacnggana angatcttcg 120

ccttaatact tttttatttt gttttatttt gaatgatgag ccttcgtgcc ccccccttccc 180
ccttttttgt cccccaactt gagatgtatg aaggcttttg gtctccctgg gagtgggcgg 240
aggcagccag gggttacctg ccacaaacgg ggaccag 277

<210> 650
<211> 300
<212> DNA
<213> Homo sapiens

<400> 650
gaggtagtga cacaggctgt gggagggggt aggggagga agtctgtggt gagcaaagtt 60
tgccttatta cactgataaa gtgtaattac actaataaag ctggatcacc tgaggttagg 120
agtttgagaa cagcctggcc aacatggcaa aaccctgtct ctactataaa tacaaaaatt 180
agccaggtgt agtggcaggg cacttgtgat cctatctgct cgggaggctg aggcaggaga 240
atcgcttgaa cccaggctgt aaaggttgcg gtgagccaag atcatgccac tgcactccag 300

<210> 651
<211> 300
<212> DNA
<213> Homo sapiens

<400> 651
ggcacagtac caggaggggg gcttggtgcc agacctcatg aggaagaagg attttcctat 60
gtacagagaa ggggaccctg tcctgttggg aggtgctgtg caaacctaac caagttacta 120
acccctctgt tttctgtgct acacaaaggg gataaataca agcttccctc actagccaat 180
tctatttggt tcctgagttt ggaaagtgat agatactgat tttctatgat tttatgagga 240
cttaaataag ctcctatgga aagtgttttg tgcagtgccg tgcccataaa gaagagctca 300

<210> 652
<211> 300
<212> DNA
<213> Homo sapiens

<400> 652
acgtgaacga gaaaaggaga aagaacggga gcgggaacga gaacgggata gggaccgtga 60
ccggacaaaa gagagagacc gagatcggga tcgagagaga gatcgtgacc gggatagaga 120
aaggagctca gatcgtaata aggatcgcag tcgatcaaga gaaaaaagca gagatcgtga 180
aagggaacga gagcgggaaa gagagagaga gagagaacga gagcgagaac gagaacggga 240
gcgagagaga gagcgagaga gggaacggga gcgagaaaga gaaaaagaca aaaaacggga 300

<210> 653
<211> 300
<212> DNA
<213> Homo sapiens

<400> 653
tgaacgagaa aaggagaaag aacgggagcg ggaacgagaa cgggataggg accgtgaccg 60
gacaaaagag agagaccgag atcgggatcg agagagagat cgtgaccggg atagagaaag 120
gagctcagat cgtaataagg atcgcagtcg atcaagagaa aaaagcagag atcgtgaaag 180
ggaacgagag cgggaaagag agagagagag agaacgagag cgagaacgag aacgggagcg 240
agagagagag cgagagaggg aacgggagcg agaaagagaa aaagacaaaa aacgggaccg 300

<210> 654
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 654
ccccttcctt ctgtctctgg agacccttga gcttggggaa atatggaggg gtgtgtgtct 60
gcaatcaagg cctctgcagc tcacggctgg cccggtgggc tgggacttcc gtctgaattt 120
taaatactta gggttcattt ttttttctct ggcaacaaag cttgatgttt tcactgcttt 180
agtttcctgt ttgctggtgg gaggggatac ggtctgtgac tctggacttg ctctgggggа 240
acagttgtca ctgcccccgg gganaggggc agctngggct ggagaagcac agcc 294

<210> 655
<211> 300
<212> DNA
<213> Homo sapiens

<400> 655
acagcctggg cgtgcggcga gctgagatca agcccggggt gcgcgagatc cacctgtgca 60
aggacgagcg cggcaagacc gggctgaggc tgcggaaggt cgaccagggg ctctttgtgc 120
agttggtcca ggccaacacc cctgcatccc ttgtggggct gcgctttggg gaccagctcc 180
tgcagattga cgggcgtgac tgtgctgggt ggagctcgca caaagcccat caggtggtga 240
agaaggcatc aggcgataag attgtcgtgg tggttcggga caggccgttc cagcggactg 300

<210> 656
<211> 300
<212> DNA
<213> Homo sapiens

<400> 656
tcaagtttgt ttgaagacac gtgtgccttt gtacccatta taagatggtc ataagaccca 60
agaactgata agctttggtt ttttttgtt ttgttttgtt ttttgcttca tttacccatt 120
catgcctagg gttccattat tggaacccta agcttgtggg agttatttct atcctactgc 180
tcaaggtcat caccaagatc tgatttttca taaaaaacat ttgtgacctt cggcataaat 240
gggttaaggt gccatccctg aaactgcaat gcagatatgt tcagataact tttatttttt 300

<210> 657
<211> 300
<212> DNA
<213> Homo sapiens

<400> 657
aaatgttttt gaatcaagtt tgtttgaaga cacgtgtgcc tttgtaccca ttataagatg 60
gtcataagac ccaagaactg ataagctttg gtttttttttt gttttgtttt gttttttgct 120
tcatttaccc attcatgcct agggttccat tattggaacc ctaagcttgt gggagttatt 180
tctatcctac tgctcaaggt catcaccaag atctgatttt tcataaaaaa catttgtgac 240
cttcggcata aatgggttaa ggtgccatcc ctgaaactgc aagcagatat gttcagaaac 300

<210> 658
<211> 300
<212> DNA
<213> Homo sapiens

<400> 658
ctatgatcag gactgactag gtagttggca tggcccatag agaacaagga aagatgggct 60
ggtggattgg cccacctggg agccacatgg ggcaagggga gccctcaccc tcagccagcc 120

agacgagtgg gatttccccc agcacagcat acccccttca caaagggaca actaaagtgc 180
ttcattaagc aagtcctgga tcctgtgccc cccaactggg tgagacaccc caatgggtca 240
ccagacacct tatacaagag catttctact ggcatcaggt gggtgcccct caaggacaga 300

<210> 659
<211> 300
<212> DNA
<213> Homo sapiens

<400> 659
gttttggctg ggcatgatgg ttagcgcctg cagttccagc tacctgggag ggtaagccca 60
gttcaaggct gcaattaact atgatggtgc ccctgcattt cagcctgggt gacaaaatta 120
aatcctggcc caaaaaaaaa aagtagccag gcatggtggc gggagcctgt tgtcccagct 180
gttccgtagg ctgaggcacg acattcactt gaacctggga ggtggaggtt gctgtgagct 240
gacaccacgc cactgcactc cagcctgggt gacagtgaga ctctgtctca ataaataaaa 300

<210> 660
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 660
attcgaacat atgcagttat tccactaaat gatgaatgtg ggattattga atgggtgaac 60
aacactgctg gtttgagacc tattctgacc aaactatata aagaaaaggg agtggatatg 120
acannaaaag aactttncca gtgctnctac ctcngnctnc ngntttatct gaanagntgg 180
nagtntcncn ngatangncc tgntttgcat cntnntanng nnntnnannn gccctttncn 240
tnntgnttgn cggnnnngcn ttgncnnnag tcanccgctg 280

<210> 661
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 661
aataggannn ctaanaggct angtgagnaa tatcaancnc cgcnctgttt ttnggtggtt 60
aangnngtat annggggcntn natgggnagg aatncanatg gtagttggga naggggagga 120
tacaggtgga tgggactgga ggttgtataa ggtgttcttg gaaggaaggg gcaggagttg 180
gaattagttg gtccctactg tcccccatga ggttgtgaac ccctccccca acttttcatg 240
tttcttaaag gcattttggt tttttaaaat ctgtacagca agagcaactt tttc 294

<210> 662
<211> 279
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 662
gaaaanggna ngactgnttt atgggggcnc caannnncng nnncanttnc annnnggccc 60
cnanaatggc caatgctcgt ttagggaacc gccattctgc ctggggacgt cggagcaagc 120
ttgatttagg tgacactata gaatacaagc tacttgttct ttttgcagga tcccatcgat 180
tcgcaggaat cgatctcgtg aagcccgcaa ggaccgaaca cccccacccc gatttagacc 240
tgcaggtgct gccccacgtc ccccaccaaa gcccatgta 279

<210> 663
<211> 300
<212> DNA
<213> Homo sapiens

<400> 663
gctaagtatt ctaggatcta cagttatggt cattcatgct ccaaaggaag aggagattga 60
gactttaaat gaaatgtctc acaagctagg tgatccaggt tttgtggtct ttgcaaccct 120
tgtggtcatt gtggccttga tattaatctt cgtggtgggt cctcgccatg gacagacaaa 180
cattcttgtg tacataacaa tctgctctgt aatcggcgcg ttttcagtct cctgtgtgaa 240
gggcctgggc attgctatca aggagctgtt tgcagggaag cctgtgctgc ggcatcccct 300

<210> 664
<211> 300
<212> DNA
<213> Homo sapiens

<400> 664
tcgtttaggg aaccgccatt ctgcctgggg acgtcggagc aagcttgatt taggtgacac 60
tatagaatac aagctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 120
catggtaatc ctgctcagta cgagaggaac cgcaggttca gacatttggt gtatgtgctt 180
ggctgaggag ccaatggggc gaagctacca tctgtgggag gaaggaggca ggctgtggtg 240
ggactgggta gggtatagta tcactcctga gttccactgc tctagaatct aaccagaaat 300

<210> 665
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 665
cccgaggagc ggagcagagg cacccaggca gcctgcgcgg agaaattgga tcggcgggga 60
cggcctgcag ctcccgcgcg cggggaaagg gaagaagtcc tcccctacaa agcaaattca 120
caaacttgga agaagcaatt tacacaggat gtgcagatct caatggaagg acacgggaaa 180
cgtgaaaaag caaggaagtg ggacgcctcc aaaggnnnnn nntaattctc cagcancaga 240
tccccatcca aaaganattc aagaantgtc atatagagaa ttgtggaaac tgatttta 298

<210> 666
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 666
gacagcccca atccgggagc aggagggcct cctgccttgg catatagacc cctgggcgcc 60
tccctgggat gcccaccagg cccagggatc cacctaggtg ggtttggcta tcctggtgat 120
ggnnnnnnnn nnnnntnaac ctntctttnt ntacnncnnt acnnctcatn tattntcctc 180
tanngntaan tntgnnnnnn tnnnctttntn ccaantagnn nntttngnnn ncnntcnnnt 240
naatntanat tnntntnnnt ntttnnntna tt 272

<210> 667
<211> 300
<212> DNA
<213> Homo sapiens

<400> 667
ggaacgcagc tgctcaccag caacggaaca aagctggacg gagaatgact ttgaagagct 60
gagagaaggc ttcagacgat caaattactc tgagctacgg gaggacattc aaaccaaagg 120
caaagaagtt gaaaactttg aaaaaaataa atgtacatta attaacgtgg aatctggtga 180
acagtaacaa actttggtga aatttcagga accatagcca ttgaagtgga tgagggaacc 240
tatatacatg cactcaacaa tggtcttttt accctgggag ctccacacaa agaagaatcg 300

<210> 668
<211> 300
<212> DNA
<213> Homo sapiens

<400> 668
attaaaccgg tttctgtggg cacctctgtc cttgctgctg gtggggaagg gaagccagat 60
ccagcacccc ctgggggggcc atcgggagtg tggctggggg tgaaggggggc tctgtggcaa 120
tatggggttg ggtagtgtgg gtggcaggcc atcccctcta atcttggaac ctctgaatat 180
gggacctccc acagcaaagg gtgacttttg tcattaagaa agactggggt gggtgtggtg 240
gctcacgcct gtaaccccag cactttggga ggccaaggtg ggcagatcac gaggtcaaga 300

<210> 669
<211> 300
<212> DNA
<213> Homo sapiens

<400> 669
agaggaccct gcagttaggg ggtgttactt tgtcgcccag gatggcctgg acccccaggt 60
tcagggattc tcccgccgct gcttcctgag tagctgggac ctcaggcttc cgcctcgtgc 120
ccgcatccct gctgtgttta ggcagcaggt ggtgacctca ctcctccctg gcctgagctc 180
tccgtcccgc atcccaggcg gaggccctag ggaacacttt gaagctgagc acggggtgga 240
ccctccctcc tgagtgaatg gagaatagaa agggagagga tttctgttct gttctgtggg 300

<210> 670
<211> 300
<212> DNA
<213> Homo sapiens

<400> 670
acccgaggct cggtgtacta ggtgcgaatg ccgccttctg tggtgaccac tgtcttctca 60
tcctttgcac ctataggagg tgagtgcctt tggggaagac ggcgagggcg acgacctgga 120

cctatggaca gtgcgctgct ctggacagca ctgggagcgt gaggctgctg tgcgcttcca 180
gcatgtgggc acctctgtgt tcctgtcagt cacgggtgag cagtatggaa gccccatccg 240
tgggcagcat gaggtccacg gcatgcccag tgccaacacg cacaatacgt ggaaggccat 300

<210> 671
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 671
ataatttggn gcatttccnn acantgtctt nncaaganta aaatgtgngc gccaaaattt 60
ngnattntan tnggagantt nttatccaaa ntaangctgc cntaggaagt ctaaggaatt 120
agtagngttc ccatcncttg tttggagtgn gctattctna aagaataagc aatgctcgtt 180
tagggaaccg ccattctgcc tggggacgtc ggagaaagct tgatttaggt gacactatag 240
aatacaagct acttgttctt tttgcaggat cccatcgatt cgaattcggc acgagcagga 300

<210> 672
<211> 300
<212> DNA
<213> Homo sapiens

<400> 672
ggctctccct gagtgtcgag gaggacatga gtgaaatgac cagcgaactc atttttttata 60
ggactcggtg aagccggatt ctgcatttcc ctacttgtag actcattttg tggaatagag 120
ttgatcgctg tctcctccgc aaagcatttt aactcgaata agcaaatgcc gcctctgttt 180
gaacgttttg gtatttacaa gagagaaatc attttaccta agagaactaa ttgaattggc 240
agcatccttg aaatacctcc ggacaaggat ctgggggtgg gggtggaaaa gcaactgcga 300

<210> 673
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 673
gtgagacagg ttagttttac cctactgatg atgtgttgtt gccatggtaa tcctgctcag 60
tacgagagga accgcaggtt cagacatttg gtgtatgtgc tacgtcgccc tggacttcga 120
gcaagagatg gccacggctg cttccagctc ctccctggag aagagctacg agctgcctga 180
cggccaggtc atcaccattg gcaatgagcc ggttacgctg ccctgaggcn nnnnnnnngc 240
cttnnttact ggcatgntgt tctgttnntn cngnngagta cattc 285

<210> 674
<211> 292
<212> DNA
<213> Homo sapiens

<400> 674

gtcaatggtg tacaagcaat gctcgtttag ggaaccgcca ttctgcctgg ggacgtcgga 60
gcaagcttga tttaggtgac actatagaat acaagctact tgttcttttt gcaggatccc 120
atcgattcga attcggcacg agggggattc ataattccag acaggtagag aacggtttta 180
tttatgtaga gacagagtct cgctctgtcg ccaggctgag gcgggagaat cacttgaacc 240
tgggaggtgg aggttgcgct gagctgagat cattacactg cactccagcc tg 292

<210> 675
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 675
canaccnatt ctcnnttggc aacnangatc ganggggnac ctagnnnann nnnnnnnnaa 60
tgacgcaaat gggcgttcca ttgacgtaaa tgggcggtag gcgtgcctaa tgggaggtct 120
atataagcaa tgctcgttta gggaaccgcc attctgcctg gggacgtcgg agcaagcttg 180
atttaggtga cactatagaa tacaagctta ctttgttctt tttgcaggat cccatcgatt 240
cgaattccgc acatgaatct cccctcctca c 271

<210> 676
<211> 300
<212> DNA
<213> Homo sapiens

<400> 676
aaatgatgac agagagaacc ctgttgaaag agcgttacca ggaggtcctg gacaaacaga 60
ggcaagtgga gaatcagctc caagtgcaat taaagcagct tcagcaaagg agagaagagg 120
aaatgaagaa tcaccaggag atattaaagg ctattcagga tgtgacaata aagcgggaag 180
aaacaaagaa gaagatagag aaagagaaga aggagttttt gcagaaggag caggatctga 240
aagctgaaat tgagaagctt tgtgagaagg gcagaaggta actgatgtta agaataaaaa 300

<210> 677
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 677
gcgagccagg attcccgatc cagagacaat ggccccgatg ggatggagcc cgaaggcgtc 60
atcgagagta actggaatga gattgttgac agctttgatg acatgaacct ctcggagtcc 120
cttnnnnnnn ncttntangc ctatggtttt gangaactnt tnngttttat ttttntgttn 180
antnttngtn gnctgntntg ntnntgtngg atngaganga anantttctt tntgngccat 240
gtgctgatgg angnntnntn ttntcnnatt tntnnnnttt natgttttt 289

<210> 678
<211> 300
<212> DNA
<213> Homo sapiens

<400> 678
ggaccatgac atctagggcc tctgaacttt ctccggggcg cagcgtgacg gctggcatca 60
tcattgttgg agatgagatc cttaagggac acactcagga caccaacacc ttctttctgt 120
gccggacact gcgctcccta ggggtccagg tttgccgagt ctcagttgta cctgatgagg 180
tagccaccat tgcagctgag gtcacttctt tctccaaccg cttcacccat gtcctcacag 240
caggggggcat cggccccact catgatgatg tgacctttga ggcagtggca caggcctttg 300

<210> 679
<211> 300
<212> DNA
<213> Homo sapiens

<400> 679
ttcaccaatg acatgatctt atagcgattc tataaaaaca gaataattaa caaattcagc 60
aaagttgtca aatacaaaat caacacacag aaatcagttg catttctata tagtactagc 120
agtgaacact tcatgaagga aattagcagt ttcatttaaa tagcatcaca tagaataaaa 180
tacataggaa ttaaccaagg aggtgaaaga cttgtacaca gaaaactaca aaatattgtt 240
gaaagaaatt aaagaagaca taattaaatg gaaagacatc ctgtgttcaa ttatatccat 300

<210> 680
<211> 300
<212> DNA
<213> Homo sapiens

<400> 680
tcaaggccta cgaacaggtg atgcactacc ccggctacgg ttcccccatg cctggcagct 60
tggccatggg cccggtcacg aacaaaacgg gcctggacgc ctcgcccctg gccgcagata 120
cctcctacta ccaggggggtg tactcccggc ccattatgaa ctcctcttaa gaagacgacg 180
gcttcaggcc cggctaactc tggcaccccg gatcgaggac aagtgagaga gcaagtgggg 240
gtcgagactt tggggagacg gtgttgcaga gacgcaaggg agaagaaatc cataacaccc 300

<210> 681
<211> 300
<212> DNA
<213> Homo sapiens

<400> 681
gggagactgg ggtctatttc acccctgcag tctcgaccat aagagatggc tacacccagg 60
ggggccagtt cagagaccca ctcccaggtg tgcattctct ttctcaagga tgttccttgc 120
tgagaaaaag aattcagtga tatttctccc atttgcttgt gaaagaagag aaatgtggct 180
ttgttccacc tggctcaccg gcggtcagaa tttaaggtta tctctcttgt ttcctaaaca 240
ttgctgttat cctgttcttt tttcaaggtg cccagatttc atattgctca aacacacatg 300

<210> 682
<211> 300
<212> DNA
<213> Homo sapiens

<400> 682
gatcagccca cctcggcctc acaaagtgct gggattacag gcgtgagcca ccttgcccag 60
cccacatcat acagtttgaa atgaaacttt gccacaacca gcctttgctg tagcacacac 120
atatatcact gaacctgttt gaaataaagt ttttttttctt tttcctctgg tattctgggt 180
tctgaagtct ggtattctgg tattctgggt tcaaaagtat gacttgagag tgttgctctg 240
gtattctgag agttgctctg tattctgggt tctgaagatt atttgaaaaa taactcctac 300

<210> 683

<211> 300
<212> DNA
<213> Homo sapiens

<400> 683
ggtacaccaa agaagaaagc tgttgtccag gctaagttga caaccactgg cccggtgact 60
tctccagtga aaggcgcctc atttgtcacc agtaccaatc cccggaaatt ttctggcttt 120
tcagccaagc ccagagtgga tttgggcata gtaatcagca aaagctacgg aataattcta 180
agaattagat gtttccatat cattaaaacc aaggatccat gaggggcaga agggaggatt 240
caaagatttt aaaaaaatca aattttagac cttggttaaa tattaactgg aatgggatct 300

<210> 684
<211> 300
<212> DNA
<213> Homo sapiens

<400> 684
agactccctt tcccggtctg ctcagtaacg ggtgccttcc cagacactgg cgttaccgct 60
tgaccaaggg gccctcaagc ggcccttatg cgggcatgac agaaggctcc cctcttgcct 120
tctattcact tctcacaatg tcccttcagc acctgaccct atacctgccg gttattccta 180
ggttatatta ttaatgcaac agagtaatat taaaagctaa tgattaataa tgtttataat 240
aatgatggat aattgttcat gatcatcgct gtatctaatt tgtattatga ctattcttat 300

<210> 685
<211> 300
<212> DNA
<213> Homo sapiens

<400> 685
ggagagaaac cttatggatg cattgactgt ggcaaggcct tcagccagaa gtcttgcctt 60
gtagcacatc agagatatca tacaggaaag actccctttg tatgtcctga atgtgggcaa 120
ccctgttcac agaagtcagg actcattaga catcagaaaa ttcactcagg agagaaaccc 180
tataaatgca gtgactgtgg gaaagccttc cttacaaaga caatgctcat tgtacatcac 240
agaactcaca cgggagagag accctatggc tgtgatgagt gtgagaaagc ttacttctat 300

<210> 686
<211> 300
<212> DNA
<213> Homo sapiens

<400> 686
gggccgctca gtttttacgt aaaatggcag atccacagtc catccaggaa tcgcagaatc 60
tgtccatgtt cctggccaat cataacaaga tcacacagtc tctgcagcag cagctcgaag 120
tgatttctgg ctacgaagag cctctagaac tatagtgagt cgtattacgt agatccagac 180
atgataagat acattgatga gtttggacaa accacaacta gaatgcagtg aaaaaaatgc 240
tttatttgtg aaatttgtga tgctattgct ttatttgtaa ccattataag ctgcaataaa 300

<210> 687
<211> 300
<212> DNA
<213> Homo sapiens

<400> 687
gtctgccttc aagaagccag acaggaaggc cctgcctgcc ttggctctga cctggcggcc 60
agccagccag ccacaggtgg gcttcttcct tttgtggtga caacgccaag aaaactgcag 120
aggccccagg gtcaggtgta agtgggtagg tgaccgtaaa acaccaggtg ctcccaggaa 180

cccgggcaaa ggccatcccc acctacagcc agcatgccca ctggcgtgat gggtgcagag 240
ggatgaggca gccaggtgtt ctgctgtggt ttgggagcct ataaagtgag actaggctgg 300

<210> 688
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 688
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 120
gagagagaga gagagagaga gagnnnnnnn nnnnnnnnnn cncacnctct tntntcncgn 180
nnnnnntctc tctntgtntc nctctnngtg tnnganatnt ntctctctta tatntntntn 240
tnttttntct ctcnanannc tctctctctc tntntgtgtc tctntcacnn ccctctctct 300

<210> 689
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 689
gtggtctctc cccctgtacc tagaaagcta tttgagctgg atccgtccct ctgatcgtga 60
cgccttcctt gaagaatttc ggacatctct gccaaagtct tgtgacctgt anctgccncg 120
ttttgaagag cttganctgg ttnccctntg gnnnntcgnt ntgtntntct cntnntgtnc 180
nntcnanant nntnanttnn natngntgna tnnntaangc ntnatnnttn ctnnatnntn 240
tnngagnctn ttnnnntttt nnnntnatnc ttngtnatgn tcatta 286

<210> 690
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 690
aaannnaana agnnnnaagn aancnnttaa gagangaang atngangnna gnntntnaat 60
ngnaaggntn natnncnaca nntgntantc tcggatntaa tgtannccna tgaagnaaga 120
aaaccttgga ccttgatgat attcacacac attcaggaac ctgttttgat gtattatagg 180
caggaagtgt ttttgctacc gtgaaacctt tacctagatc agccatcagc ctgtcaactc 240
agttaacaag ttaaggaccg aagtgtttca ag 272

<210> 691
<211> 300

<212> DNA
<213> Homo sapiens

<400> 691
ggcacgaggc actaagcagg ctagtgctct cagcttcccg gcctcccctt ccaggccgct 60
gccgcctgac cctgtgtcca agagactcca ggctgagctg gctgaccgac ccaatccccc 120
tacccgccct ctgcccgctg acccggtggt gagaagcccg aagtctcagg ggccagccaa 180
gcccccaccc ccaaggaagc cactgcctgc cgacccccag ggccggtgcc catcgggtga 240
cctgcccggc ccaggggctg gaatcccgcc cctagtggta ccctccagac cagcgccacc 300

<210> 692
<211> 300
<212> DNA
<213> Homo sapiens

<400> 692
aaaatgcctt cattttcctt tttactttat catgagacat aagatttatt ggcttcatat 60
caacccttaa gtattgttaa ctttatgtaa tagcatttgg gttggggatt ggtgtgtttt 120
cggttgtaca tagcatagtt gaattatgtt aggcataatt atgaccttat tattgtcttt 180
atttgaaaat tatatatgat ctcaggaaat gtgtatgagt tcaagttgac aaggagtgga 240
tttgggatgg ttgatactga gtgtcaactt gattggattg aagcatgcag agtaataatc 300

<210> 693
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 693
ggctgtcgct gacccaggag aagctgcctg tctacatcag cctgggctgc agcgcgctgc 60
cgccgcgggg ccggcagcca tggccaagga catcctgggt gaagcagggc tacactttga 120
tgaactgaac aagctgaggg tgnnnnnnnn nnnnnntatt cagcttatcc taaacctgaa 180
agaagagtga gtagacttta aggatcaaga taatctgggg cttcccagtt gtgtcggcca 240
aggacctgag acctgaaggg ttgactttac ccatttgact gggagtgttg agcatctgtc 300

<210> 694
<211> 300
<212> DNA
<213> Homo sapiens

<400> 694
ccccggtgtc cccgcgaggg gcccggggcg gggtccgccg gccctgcggg ccgccggtga 60
aataccacta ctctgatcgt tttttcaatt gaccgtggag gcccccatgc ccaagctagc 120
cacgcagtcc aacgagatca ccatcccagt caccttcgag tcgcgggccc agcttggggg 180
cccagaagct gcaaaatccg atgagactgc cgccaagtaa acccccttagc ccggatgccc 240
acccctgctg ccgccactgg ctgtgcctcc cccgccacct gtgtgttctt ttgatacatt 300

<210> 695
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 695
caggcgtact gacaggtgga ccaacggact gatttagaag agaacaagca tgcgctccct 60
acattccagc cacatatcac aaacgactac ggtctggaca actttgacac acagttnacc 120
agngagcccg tgcanntgac cccanacgat nangatgcca tatagaggat ngaccagtcn 180
nagttcgaag gntntganta tatccatcca ttattgctga ncncnnanga nncnntnntc 240
atntacntnt agtcnntntt ttngctntct cccnnccact c 281

<210> 696
<211> 300
<212> DNA
<213> Homo sapiens

<400> 696
tttcggccaa ctagaggagt ctgaaggacc agacaattgc tcagaaacag aaggctgttt 60
agaattttct aaattcatta agggcaattc tggtactttt ctggaaattg gctttaagag 120
ctcatcctgc atttttaaaa tctctccaac tggatcaaat tttttatata ctcgtttgat 180
aggtttttt aaaacacatg actcttcagg actacaagca gtattagtct ggtttcctac 240
agaagcctgt cctgaggaag aatttggact agctggtctg gaacttaagt tagaacccac 300

<210> 697
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 697
gtcagggctg gactgtgagc ctgtgcttgg gtcctggagg aggtgaggga ggtatacatt 60
gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat ttgtgaaatt 120
tgtgatgcta ttgctttatt tgtaaccatt ataagctgca ataaacaagt taacaacaac 180
aattgcattc attttatgtt tcaggttcag ggggaggtgt gnnnnnnnnn nnnnnnnnnn 240
nannntnnnn tanngnntna tg 262

<210> 698
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 698
gggcgaaaaa gatgaccgaa attcaaactc ctgaaaatac tcctcgttta tttgatttag 60
taaaagtaaa agatgagaaa attcgccaag ctttttattt tgctttacga gataccttag 120
tagctgacaa cttggatcaa gccacaagag tagcatatca aaaagataga agatggagag 180
tggtaacttt acagggacaa atcatagaac agtcaggtac aatgactggt ggtggaagca 240

aagtaatgan nggaagaatg ggtncctcac ttgntattga aanctctgaa gaaga 295

<210> 699
<211> 300
<212> DNA
<213> Homo sapiens

<400> 699
agaaagtgct agcacagttt gtgttgtgga tttgctactt ccatagttta cttgacatgg 60
ttcagactga ccaatgcatt tttttcagtg acagtctgta gcagttgaag ctgtgaatgt 120
gctaggggca agcatttgtc tttgtatgtg gtgaattttt tcagtgtaac aacattatct 180
gaccaatagt acacacacag acacaaagtt taactggtac ttgaaacata cagtatatgt 240
taacgaaata accaagactc gaaatgagat tattttggta caccttttctt tttagtgtct 300

<210> 700
<211> 300
<212> DNA
<213> Homo sapiens

<400> 700
aagtagagga ggaagttcag acaatttcat aagtgtctaa aaagagacag ttatgcgacc 60
attgacgagg agtaaaagtc gtctattgag catcttattc actacaaata gaagaaagaa 120
ataccagttt cctgacaagc cccaccccat gcttggccag ttcctgagta cacttaatat 180
attttagagg aaaagatgct agaaccacag gagaatggcg tgattgacct accagattat 240
gagcatgtag aagatgaaac ttttcctcct ttcccacctc cagcctctcc agagagacaa 300

<210> 701
<211> 300
<212> DNA
<213> Homo sapiens

<400> 701
gtggtcttca gtctgtcgtg caccgatgag aactctcctt attgctgtga agggcagaca 60
atgcatggct gatctactct gttaccaatg gctttactag tgacacgtcc cccggtctag 120
gatcgaaatg ttaacaccgg gagctctcca ggccacccac ccggagagac gtcgcgctgt 180
ggcctgaagt ggcgcaagct tgctttgtaa atatctgtgg tcccgatgta gtgcccagaa 240
cgtttgtgcg aggcagctct gcgcccgggt tccagcccga gcctcgccgg gtcgccgtct 300

<210> 702
<211> 300
<212> DNA
<213> Homo sapiens

<400> 702
ggcgtgccta atgggaggtc tatataagca atgctcgttt agggaaccgc cattctgcct 60
ggggacgtcg gagcaagctt gatttaggtg acactataga atacaagcta cttgttcttt 120
ttgcaggatc ccatcgattc gaattcggca cgaggaagga ggacctaggc acacacatat 180
ggtggccaca cccaggaggg tagtggggag ttagatttca gagtccaggc cctaggttgg 240
gacccactcc aaataatctc ctcggtgtgg gtggtggttc tatagaggga taaagaataa 300

<210> 703
<211> 300
<212> DNA
<213> Homo sapiens

<400> 703

ccaaggcgca gcccgattct gccccctacg attggttcgg ggacttctcc tccttccgtg 60
ccctcctaga gccggagctg cggcccgagg accgtatcct tgtgctaggt tgcgggaaca 120
gtgccctgag ctacgagctg ttcctcggag gcttccctaa tgtgaccagt gtggactact 180
catcagtcgt ggtggctgcc atgcaggctc gctatgccca tgtgccgcag ctgcgctggg 240
agaccattga tgtgcggaag ctggacttcc ccagtgcttc ttttgatgtg gtgctcgaga 300

<210> 704
<211> 300
<212> DNA
<213> Homo sapiens

<400> 704
gagaagctga ccttggacct gacggtgctc ctgggtgtgc tgcaggggca acagcagagc 60
ctacagcagg gggcacactc caccggctcc agccgcctgc acgacctcta ctggcaggcc 120
atgaaaaccc tgggagtcca gcgccccaag ttggagaaga aggatgccaa ggagatcccc 180
agtgccaccc agagccccat cagtaagaag cggaagaaaa agggattctt gccagagacg 240
aagaagcgca agaaacgcaa gtcagaggat ggcacgccag cggaggatgg cacacctgca 300

<210> 705
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 705
agtccacatt aaaaagaaaa caaaacaaac cctaactaac ttccaaatgg gtctcctggt 60
gcgggggcgt gagtggccgt gccctgggtg tgctgcctgt ctgagcaagc ttccctagct 120
gaggaacccc gggccccctg ctgcgggctc tgccttggtg tcatgcctgc tgcacccccg 180
tttacactga tgtgccannn nnnnnnntgg nggtttggag cnnacatgct actggtcnan 240
nnacacangt nccggggcat catgagaaag gntngntctt ggnaccttgt cctccccagt 300

<210> 706
<211> 300
<212> DNA
<213> Homo sapiens

<400> 706
ccgcagaggg cctggaagag gtgctcacca cgccagagac tgtgctcaca ggccacacgg 60
agaagatctg ctccctgcgc ttccacccac tggcagccaa tgtgctggcc tcgtcctcct 120
atgacctcac tgttcgcatc tgggaccttc aggctggagc tgatcggctg aagctgcagg 180
gccaccaaga ccagatcttc agcctggcct ggagtcctga tgggcagcag ctggccactg 240
tctgcaagga tgggcgtgtg cgggtctaca ggccccggag tggccctgag cccctgcagg 300

<210> 707
<211> 300
<212> DNA
<213> Homo sapiens

<400> 707
tggaggtctc ctttcgcccc agcccaggtg gccaagccca tcctggcctc agaacatgct 60
gagcacattt tgtagggtgg caccttttta tccaagttac tagctacaca tcagtgttta 120
aagagaaaaa agtgaccttt catttttttt tcttgaaact tgaggaaaca agatacatac 180

tactgatttt ttttttctta aaactaaatg catgactgca gagcggtaga ggtgtatatt 240
tttcatactg tggggcaaag tatttgtgct gctttttgga gatggactgg aacgtctggt 300

<210> 708
<211> 300
<212> DNA
<213> Homo sapiens

<400> 708
aaaaacagtg cattagcaat ttcatagcaa gtgcatgcac taggaaaaga aaactctgtc 60
tacaagttta ttagcagaag tggtggtctg ctagacaaat aattttgcaa aatttttcta 120
catctaagtt acctcatcag taagtgccat gtctctacca tgccatcaga ggctaatttc 180
ctgtaaaagt tgtggaaatt gttagaacaa tagaaaaata gagcagtgta tgtgtgccaa 240
aactcatcat tactcaaagg agaactgtgt taggcacatt taagaaagtt tacatctgac 300

<210> 709
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

<400> 709
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 120
gagagagaga gagagagaga gagagagaga gagagagaga gannnnnnnn nggtcttctc 180
ntgcntgatg cctcttntca ctgcctggan ccctgntnna ngccctcgna tctcccntgc 240
tnccgngcct ttnnttngan cctggtggtc tcctctccca ttgct 285

<210> 710
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 710
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 60
gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga gagagagaga 120
gagagagaga gagagagaga gagagagaga gagagagaga gagnnnnnnn nnngngngcn 180
ctcccgcgcg cnngnctnnc ncncntntnn tctctctctc tcgngcnccc ccnccncccc 240
cnncacacnn nnncagagng nnnctctctc tntnt 275

<210> 711
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(266)
<223> n = A,T,C or G

<400> 711
ataacacaga ctttcaagga ccaaggattg gaggttttaa agcaggaaac agcagttgtt 60
gaaaacgtcc ccattttggg actttatcag attccagctg agggtggagg ccggattgta 120
ctgtatgggg actccaattg cttggatgac agtcatcgac tgaaggactg cttttggctt 180
ctggatgccc tnnnnnnnnn nnnntngtgt ggngtgnnnn nntanctnnn nnnntttnng 240
nncctnnnnt gnnnttntnn nnnnct 266

<210> 712
<211> 300
<212> DNA
<213> Homo sapiens

<400> 712
gtgtggaacc tgcagggcct ctagatgtgc tgggccccag tctccaaggg cgagaatgga 60
ccctgatgga cttggacatg gagctgtcct tgatgcagcc cttggttcca gagcggggtg 120
agcctgagct ggcggtcaag gggttaaatt ctccaagccc aggtaatggt tgtgatgact 180
cctacctggg aggacgccgt gattgggctg agctaccttg attgagtgag ggggcaatct 240
gcaatttgca gggaaatcct gagttcaggc tgcactgcag agcgttcctt gagccaccca 300

<210> 713
<211> 300
<212> DNA
<213> Homo sapiens

<400> 713
tgtggagaag ccttcttttt ctatgggaaa tcacttctgg agttggcaag aatggagaat 60
ggtgtgttgg gaaacgcctt ggaaggtgtg catgtggaac atcattctca ccaccagtct 120
cttctctgtg cctttcttcc tgacgtggag tgtggtgaac tcagtgcatt gggccaatgg 180
ttcgacacag gctctgccag ccacaaccat cctgctgctt ctgacggttt ggctgctggt 240
gggctttccc ctcactgtca ttggaggcat ctttgggaag aacaacgcca gccccttga 300

<210> 714
<211> 291
<212> DNA
<213> Homo sapiens

<400> 714
gttttgctcg tttagggaac cgccattctg cctggggacg tcggagcaag cttgatttag 60
gtgacactat agaatacaag ctacttgttc tttttgcagg atcccatcga ttcgaattcg 120
gcacgaggtt atgtctggct gtagctgttg gtcacgtgaa gatgacagac gatgagcttg 180
tgtataacat tcacctggct gtcaacttct tggtgtcatt gctcaagaaa aactggcaga 240
atgtccgggc cttatatatc aagagcacca tgggcaagcc ccagcgccta t 291

<210> 715
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 715
tcctccangg ccgtggttgt gaaaaaggtc gaggcccctg atgggaagct ggtgtctgag 60
tcctctgacg tcctgcccca gtgcacaagt tcggcagccc ctcccagcct tcccctcctg 120
cgctgcccca gagcctggga aggaggccgc tttgcagggt agcactggga acagggaacc 180
cccctgaggc tccgccctag cccttagccc gcctggggag tttacttcct ggggaccccc 240
cttgcccatg cctccagcta caacaccatt ccattgcttt ttttttggt ccag 294

<210> 716
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 716
ggtagttaag ccccccaaa acaagacgga aagtgaaaat acttcagata aacccaaaag 60
aaagaaaaag ggaggcaaaa atggaaaaaa tagaagaaac agaaagaaga aaaatccatg 120
taatgcagaa tttcaaaatt tctgcattca cggagaatgc taatatatag agcacctgga 180
agcagtaaca tgcaaatgtc agcaagaata tncgntnaan gganctgtnn atgctanttn 240
ananataatc nnagctggan agggagcttt ttaagcttaa nnnaatgtt 289

<210> 717
<211> 300
<212> DNA
<213> Homo sapiens

<400> 717
cgacggcaag gtggtgctgt cccggcagta cggctcggag ggccgcttca cgttcacctc 60
ccacacgccc ggtgaccatc aaatctgtct gcactccaat tctaccagga tggctctctt 120
cgctggtggc aaactgcggg tgcatctcga catccaggtt ggggagcatg ccaacaacta 180
ccctgagatt gctgcaaaag ataagctgac ggagctacag ctccgcgccc gccagttgct 240
tgatcaggtg gaacagattc agaaggagca ggattaccaa aggtatcgtg aagagcgctt 300

<210> 718
<211> 300
<212> DNA
<213> Homo sapiens

<400> 718
gggggggattc cactcctgtt ttgtgagtag gcgacccatg ggctgcccag ccttaaagcc 60
agaacaaggg tgtcccctga cctcgttcca ctgccctcct cccgttccca tctttccccc 120
ctaccttccc cttaggcacg tctgagaatg gtggatgtgg tggagaaaga agatgtgaat 180
gaagccatca ggctaatgga gatgtcaaag gactctcttc taggagacaa ggggcagaca 240
gctaggactc agagaccagc agatgtgata tttgccaccg tccgtgaact ggtctcaggg 300

<210> 719
<211> 300
<212> DNA
<213> Homo sapiens

<400> 719
gtcgggtctc caacctcatt aagcaccaca gggttcacac tggagagaag ccctataagt 60
gcagtgactg tgggaaagca tttagtcaga gctccagcct tattcagcat cggagaattc 120

acactggaga aaagcctcac gtgtgtaatg tatgtggaaa agcctttagt tatagctcag 180
tgctccgaaa gcaccagatc atccacacgg gagagaagcc gtacagatgc agtgtctgtg 240
ggaaggcctt cagccacagc tcagccctca ttcagcacca gggcgtgcac acaggcgaca 300

<210> 720
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 720
gtggctatcc atcaacataa gtaaaaaaaa aaaacacttc aactccctcc cccatttann 60
nnnnnnntta acatatttta aaaatcanat gagttntata aataatttaa anaagngaga 120
gtatttattt ttggcatgtt tggcccacca cacanactnt gngtgtgtat gtgtgngttt 180
atatgtgtat gtgngtgaca naaaaatntg taaanaanag gcncatntat ggntactgnt 240
caaatnctta aagataantt nattttcaca cagtccacaa ggggtatatc ttgtagtttt 300

<210> 721
<211> 300
<212> DNA
<213> Homo sapiens

<400> 721
gtttgtgcat cacttggtca ccattgggct tatctccttc tcctacatca acaatatggt 60
tcgagtggga actctgatca tgtgtctaca tgatgtctca gatttcttgc tggaggcagc 120
caaactggcc aattatgcca agtatcagcg gctctgtgac acccttttg tgatcttcag 180
tgctgttttt atggttacac gactaggaat ctatccattc tggattctga acacgaccct 240
ctttgagagt tgggagataa tcgggcctta tgcttcatgg tggctcctca atggcctgct 300

<210> 722
<211> 300
<212> DNA
<213> Homo sapiens

<400> 722
acaacattca gcatgcagac ccgccagtgc agatccttta caaccgcacc atggtgcagc 60
tgggcatctg tgccttccgc caaggcctga ccaaggacgc acacaacgcc ctgctggaca 120
tccagtcgag tggccgagcc aaggagcttc tgggccaggg cctgctgctg cagccccagc 180
taaggttgaa gccaaggaag agtcggagga gtcggacgag gatatgggat ttggtctctt 240
tgactaatca ccaaaaagca accaacttag ccagttttat ttgcaaaaca aggaaataaa 300

<210> 723
<211> 300
<212> DNA
<213> Homo sapiens

<400> 723
gcaaggcgcc gggggacacg ttggctgcgt tttcggcgga ctggccgggt acaaaaatgg 60
ctgtggctag cgatttctac ctgcgctact acgtagggca caagggcaag tttgggcacg 120
agtttctgga gttcgaattt cggccggacg gaaagcttag atatgccaac aacagcaatt 180
acaaaaatga tgtgatgatc agaaaagagg cttatgtgca caagagtgta atggaagaac 240
tgaagagaat tattgatgac agtgaaatta caaaagaaga tgatgctttg tggcctcccc 300

<210> 724
<211> 300
<212> DNA
<213> Homo sapiens

<400> 724
agaaaacaac ttggcatttc tatactttac aggaaaaaaa attctgttgt tccattttat 60
gcagaagcat attttgctgg tttgaaagat tatgatgcat acagttttct agcaattttc 120
tttgtttctt tttacagcat tgtctttgct gtactcttgc tgatggctgc tagattttaa 180
tttatttgtt tccctacttg ataatattag tgattctgat ttcagttttt catttgtttt 240
gcttttgttt ttttcctcat gtaacattgg tgaaggatcc aggaatatga ctcaaagggg 300

<210> 725
<211> 300
<212> DNA
<213> Homo sapiens

<400> 725
tgtagaggag gtgaggaaat actttaatgt gttggaaacc atgggtttga acagaagata 60
cgcatatgga gtggggaatg gaaagaaaac tttgtgctac atttactgta aattatatct 120
tattgattca gtaaattcag gtggaatacg gaagttcaaa tttaaagatt acccatggac 180
tcctgacctc aggtgatcca cccgcctcag cctcccagtg ggctgggatt acaggtgtga 240
gccaccatgc ccagcctcat cattcttatt aactggttta atcctttcaa taatcctatt 300

<210> 726
<211> 300
<212> DNA
<213> Homo sapiens

<400> 726
tcggcacgag ggcaagggac ttcctgtaac aatgcatctc atatttggaa tgacccagtc 60
ctctcccaag tccacacagg ggaggtgata gcattgcttt cgtgtaaatt atgtaatgca 120
aaatttttt aatcttcgcc ttaatacttt tttattttgt tttattttga atgatgagcc 180
ttcgtgcccc cccttccccc ttttttgtcc cccaacttga gatgtatgaa ggcttttggt 240
ctccctggga gtgggtggag gcagccaggg cttacctgta cactgacttg agaccagttg 300

<210> 727
<211> 300
<212> DNA
<213> Homo sapiens

<400> 727
cgtccgctct cattggctct gctggtccag aaagcagccc aggcctttaa ctccgggctg 60
ctgtgtgtgg catgtggttc ataccgacgg ggaaaggcga cctgtggtga tgtcgacgtg 120
ctcatcactc acccagatgg ctggtcccac cggggtatct tcagccgcct ccttgacagt 180
cttcggcagg aagggttcct cacagatgac ttggtgagcc aagaggagaa tggtcagcaa 240
cagaagtact tgggggtgtg ccggctccca gggccagggc ggcggcaccg gcgcctggac 300

<210> 728
<211> 300
<212> DNA
<213> Homo sapiens

<400> 728
atagtcagaa aacaacctgg catttctata ctttacagga aaaaaaattc tgttgttcca 60
ttttatgcag aagcatattt tgctggtttg aaagattatg atgcatacag ttttctagca 120

attttctttg tttcttttta cagcattgtc tttgctgtac tcttgctgat ggctgctaga 180
ttttaattta tttgtttccc tacttgataa tattagtgat tctgatttca gtttttcatt 240
tgttttgctt ttgtttttt cctcatgtaa cattggtgaa ggatccagga atatgacaca 300

<210> 729
<211> 300
<212> DNA
<213> Homo sapiens

<400> 729
gtccaggctt ccttctgatg gccaacccac ctttaatgct ggccagtcta tctcacacaa 60
agttctaagt tttccaggtg tcatagtaac tccatagtct cccttaaatc ccttttgaa 120
atttttcaac atagttccta gtgggatggg cttactttgt gcctgaccca tgttttctca 180
agacaaaaca ccatggcagg aacagccact tgcatctggt cccggtgcca cactgcggtg 240
cttggtgtgg ttgtggagcc tgtccctgcg cgccttgctc ccgttgagcc acgctgtctg 300

<210> 730
<211> 300
<212> DNA
<213> Homo sapiens

<400> 730
gataaatacc tcagcccctc gccttcctca acccacctgg caagtcttct taggatctga 60
tcccagtttt ctggaagcaa tcctacccca gcccaagctt cccagagtcg agccttaatc 120
cttctcactt ctcagtgtca gagcagaaat gaatcctggg gttgactgtg tccattcggg 180
ttattagcag ctaagaagcc cagacgagta gtgtgagctg ccttgggagc ctcagtgagg 240
gcactgggac tggcctcact ctcttgcccc cagcctagtg ggctttctcc tctgtctctc 300

<210> 731
<211> 300
<212> DNA
<213> Homo sapiens

<400> 731
gtccatacat ggagctccct ggagcccgtg tgctctcgtg tgactgaacg ttttgtgatg 60
aaaggaggag aggctgtctg cctttatgag gagccagtgt ctgaattgct gaggagatgt 120
gggaattgca cacgggaaag ctgtgtggtt tccttttacc tttcagctga ccatgaactc 180
ctgagcccga ccaactacca cttcctgtcc tcaccgaagg aggccgtggg gctctgcaag 240
gcgcagatca ctgccatcat ctctcagcaa ggtgacatat ttgtttttga cctggagacc 300

<210> 732
<211> 300
<212> DNA
<213> Homo sapiens

<400> 732
cactgggttc caagttgctt tgctgaataa ggatttgaag ccacagacat ttagaaatgc 60
ttatgacata ccaagacgaa atcttttgga tcacttaaca agaatgagat ctaatctttt 120
gaagagcact cgcagatttc tgaaaggaca ggacgaagat caagtgcaca gtgttcctat 180
agcacaaatg gggaactacc aggaatacct caagcaagta ccttctccac taagagaact 240
tgatcctgat cagccacgaa ggttgcatac atttggcaac ccctttaagc tggataagaa 300

<210> 733
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 733
ggcgccctgg ccccgctgct gagccacggc caggtccact tcctatggat caaacacagc 60
aacctctact tggtggccac cacatcgaag aatgccaatg cctccctggt gtactccttc 120
ctgtataaga caatagaggt attctgcgaa tacttcaagg agctggagga ggagagcatc 180
cgggacaact ttgtcatcgt ctacgagttg ctggacgagc tcatggactt tggcttcccg 240
cagaccaccg acagcaagat cctgcaggag tacatcactc agcagagcan caagctggag 300

<210> 734
<211> 300
<212> DNA
<213> Homo sapiens

<400> 734
ggcgccctgg ccccgctgct gagccacggc caggtccact tcctatggat caaacacagc 60
aacctctact tggtggccac cacatcgaag aatgccaatg cctccctggt gtactccttc 120
ctgtataaga caatagaggt attctgcgaa tacttcaagg agctggagga ggagagcatc 180
cgggacaact ttgtcatcgt ctacgagttg ctggacgagc tcatggactt tggcttcccg 240
cagaccaccg acagcaagat cctgcaggag tacatcactc agcagagcaa caagctggag 300

<210> 735
<211> 300
<212> DNA
<213> Homo sapiens

<400> 735
ggcacaagga ccctcctgcc aacctgtttg aagacatgga cctcaacaag gatggcgagg 60
tccctccgga ggagttctcc accttcatca aggctcaagt gagtgagggc aaaggacgcc 120
tcatgcctgg gcaggaccct gagaaaacca taggagacat gttccagaac caggaccgca 180
accaggacgg caagatcaca gtcgacgagc tcaagctgaa gtcagatgag gacgatgagc 240
gggtccacga ggagctctga ggggcaggga gcctggccag gcctgagaca cagaggccca 300

<210> 736
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 736
ttcaagcccc cagcctacga ggatgtggtt caccgcccag gcacaccacc ccccccttat 60
actgtggccc caggccgccc cttgactgct tccagtgaac aaacctgctg ttcctcctca 120
tccagctgcc ctgcccactt cgaaggaaca aatgtggaag gtgtttcctc ccaccagagt 180
gccccccctc atcaggaggg tgagcccgnn nnnnnnntga cccctgcctt cacacccccc 240
tcctgccgct atgccgttta actggcgact ccggtattga gctctgccct tgtcctgcct 300

<210> 737
<211> 300
<212> DNA

<213> Homo sapiens

<400> 737
agaaccatca tgggctggac attggacttc ctccgggagc ggctgttggg ctggatccaa 60
gaccagggtg gttgggacgg cctcctctcc tactttggga cgcccacgtg gcagaccgtg 120
accatctttg tggcgggagt gctcaccgcc tcactcacca tctggaagaa gatgggctga 180
ggcccccagc tgccttggac tgtgtttttc ctccataaat tatggcattt ttctgggagg 240
ggtggggatt gggggacatg ggcatttttc ttacttttgt aattattggg gggtgtgggg 300

<210> 738
<211> 300
<212> DNA
<213> Homo sapiens

<400> 738
gaatgacatt catgccagtt cttccctgaa tggcagaagc actgaagaag taaggcccat 60
tgatgaaaac ttggggcaaa ctggaaaatc tgctgtttgc attcaccaag atataaatga 120
tgatcatgtt gaatatgtta caggaattca gcatttgaca agcgattcag acagtgaagt 180
ttattgtgat tctatggaac aatttggaca agaagagtct ttagacagct ttacgtccaa 240
caatggacca tttcagtatt acttgggtgg tcattccagt caacccatgg aaaattctgg 300

<210> 739
<211> 300
<212> DNA
<213> Homo sapiens

<400> 739
cgggactggt accaccgcat cgaccccacc gtgctgctgg gcgcgctgcg cgttgcggag 60
cttgacgcgc cagctggtac aggacgagaa cgtgcgcggg gtgatcacca tgaacgagga 120
gtacgagacg aggttcctgt gcaactcttc acaggagtgg aagagactag gagtcgagca 180
gctgcggctc agcacagtag acatgactgg gatccccacc ttggacaacc tccagaaggg 240
agtccaattt gctctcaagt accagtcgct gggccagtgt gtttacgtgc attgtaaggc 300

<210> 740
<211> 300
<212> DNA
<213> Homo sapiens

<400> 740
gtacgagagt ctgttgaaca acaggctgat agtttcaaag caacacgttt taaccttgaa 60
actgaatgga agaataaact atcctcgcct gcgggaactt gaccggaatg aactatttga 120
aaaagctaaa aatgaaatcc ttgatgaagt tatcagtctg agccaggtta caccaaaaca 180
ttgggaggaa atccttcaac aatctttgtg ggaaagagta tcaactcatg tgattgaaaa 240
catctacctt ccagctgcgc agaccatgaa ttcaggaact tttaacacca cagtggatat 300

<210> 741
<211> 300
<212> DNA
<213> Homo sapiens

<400> 741
cagtccttca atgccgtcgt caattacacc aacagaagtg gagacgcacc cctcactgtc 60
aatgagttgg gaacagctta cgtttctgca acaactggtg ccgtagcaac agctctagga 120
ctcaatgcat tgaccaagca tgtctcacca ctgataggac gttttgttcc ctttgctgcc 180
gtagctgctg ctaattgcat taatattcca ttaatgaggc aaagggaact caaagttggc 240
attcccgtca cggatgagaa tgggaaccgc ttgggggagt cggcgaacgc tgcgaaacaa 300

<210> 742
<211> 300
<212> DNA
<213> Homo sapiens

<400> 742
ggctagcgat ttctacctgc gctactacgt agggcacaag ggcaagtttg ggcacgagtt 60
tctggagttc gaatttcggc cggacggaaa gcttagatat gccaacaaca gcaattacaa 120
aaatgatgtg atgatcagaa aagaggctta tgtgcacaag agtgtaatgg aagaactgaa 180
gagaattatt gatgacagtg aaattacaaa agaagatgat gctttgtggc ctccccctga 240
tagggttggc cgacaggagc ttgaaattgt aattggagat gagcacatat cttttaccac 300

<210> 743
<211> 300
<212> DNA
<213> Homo sapiens

<400> 743
ggatcctttc cagacagaag acccccttcaa atctgaccca tttaaaggag ctgacccctt 60
caaaggcgac ccgttccaga atgacccctt tgcagaacag cagacaactt caacagatcc 120
atttggaggg gacccctttca aagaaagtga cccattccgt ggctctgcca ctgacgactt 180
cttcaagaaa cagacaaaga atgacccatt tacctcggat ccattcacga aaaacccttc 240
cttaccttcg aagctcgacc cctttgaatc cagtgatccc ttttcatcct ccagtgtctc 300

<210> 744
<211> 300
<212> DNA
<213> Homo sapiens

<400> 744
agaaaatgtg ggatcaagaa aaggaccatt tgaaaaagtt caatgagttg atggttatgt 60
tcagggtccg gccaacagtt ctgatgccct tgtggaacgt gctggggttt gcactggggg 120
cggggaccgc cttgctcggg aaggaaggtg ccatggcctg caccgtggcg gtggaagaga 180
gcatagcaca tcactacaac aaccagatca ggacgctgat ggaggaggac cctgaaaaat 240
acgaggaact tcttcagctg ataaagaaat ttcgggatga agagcttgag caccatgaca 300

<210> 745
<211> 300
<212> DNA
<213> Homo sapiens

<400> 745
attcatgcca gttcttccct gaatggcaga agcactgaag aagtaaagcc cattgatgaa 60
aacttggggc aaactggaaa atctgctgtt tgcattcacc aagatataaa tgatgatcat 120
gttgaagatg ttacaggaat tcagcatttg acaagcgatt cagacagtga agtttactgt 180
gattctatgg aacaatttgg acaagaagag tctttagaca gctttacgtc caacaatgga 240
ccatttcagt attacttggg tggtcattcc agtcaaccca tggaaaattc tggatttcgt 300

<210> 746
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 746
ganancncag atcncnttga aatgcctctc ttttaataaa cgtttccttt gttcactatt 60
gcctgctagt tcatcttgta aatccttggc tttaagctcc aacttagtcc tctgcttaat 120
ctgctcttgt ctttcagcac taagctgttc tttttcttct ttcatagctg aaatttttgt 180
tttcaattct ctaacttggc gttcgatatc ctccatttta tctcttgcat cctgctgagc 240
atctcttaat tgtctggatt tttctccact agtctctcgc ttagcagaaa gctcatcaag 300

<210> 747
<211> 300
<212> DNA
<213> Homo sapiens

<400> 747
ccgaagaaat ataacacatt ttggacctac aactcttaga tcaactcttg cctatgggat 60
gctcaggctc tgtgatcctc taccttatga tataatagtc gatccaatgt gtggaactgg 120
ggcaatacca atagaggggg ccactgaatg gtctgactgc ttccatattg ctggtgataa 180
taatccactg gctgtgaata gagcagcaaa taacattgca tctttattga ccaagagcca 240
aattaaagaa ggcaaaccct cctggggctt gcccatagat gctgttcagt gggatatctg 300

<210> 748
<211> 300
<212> DNA
<213> Homo sapiens

<400> 748
attctctcaa taatggccag ccgaaaagta cgcgctgcca ggcatctgcc tccgcggagt 60
cattaaactc ccacagtggt caccccactg ctgatgtaca gactttccag gcaaagcgcc 120
atattcatca acaccgtcag tcttactgta attataacac tggaggtcag ttagagggca 180
atgcagccac ttcctatcag aagcagactg acaaacccag ccactgtagc cagtttgtga 240
cacctccgcg gatgaggaga cagttctcag cacccaatct caaagctggt cgagaaacca 300

<210> 749
<211> 300
<212> DNA
<213> Homo sapiens

<400> 749
tttacaatca ggaacttaac gagactcgtg ccaaacttga tgagctttct gctaagcgag 60
agactagtgg agaaaaatcc agacaattaa gagatgctca gcaggatgca agagataaaa 120
tggaggatat cgaacgccaa gttagagaat tgaaaacaaa aatttcagct atgaaagaag 180
aaaaagaaca gcttagtgct gaaagacaag agcagattaa gcagaggact aagttggagc 240
ttaaagccaa ggatttacaa gatgaactag caggcaatag tgaacaaagg aaacgtttat 300

<210> 750
<211> 300
<212> DNA
<213> Homo sapiens

<400> 750
gacagaccta acttccagca ttcccaaacc tctgcttcca gttgggaaca aacctttaat 60
ttggtaccca ttgaacctgc ttgagcgtgt tggatttgaa gaagtcattg tggttacaac 120
cagggatgtt caaaaggctc tatgtgcaga attcaagatg aaaatgaagc cagatattgt 180
gtgtattcct gatgatgctg acatgggaac tgcagattct ttgcgctaca tatatccaaa 240
acttaagaca gatgtgctgg tgctgagctg tgatctgata acagacgttg ccttacatga 300

<210> 751
<211> 300
<212> DNA
<213> Homo sapiens

<400> 751
gttgtattgg aaagcagtag tgtggacgaa ttgcgagaga agcttagtga aatcagtggg 60
attcctttgg atgatattga atttgctaag ggtagaggaa catttccctg tgatatttct 120
gtccttgata ttcatcaaga tttagactgg aatcctaaag tttctaccct gaatgtctgg 180
cctctttata tctgtgatga tggtgcggtc atattttata gggataaaac agaagaatta 240
atggaattga cagatgagca aagaaatgaa ctgatgaaaa aagaaagcag tcgactccag 300

<210> 752
<211> 300
<212> DNA
<213> Homo sapiens

<400> 752
aaagaactgt ctcacgcaac cattgattct aaaactggcg atttagggga catcaatgct 60
gagcagcttc ctgggaggga acatcttaat gaacctggta ctagagaagg acagactcgt 120
ctaatcagag atggggagaa agtcgaagcc tatcagtgga gtgttagtga agggaggtgg 180
ataaaaattg gtgatgttgt tggctcatct ggtgctaatc agcaaacatc tggaaaagtt 240
ttatatgaag ggaaagaatt tgattatgtt ttctcaattg atgtcaatga aggtggacca 300

<210> 753
<211> 300
<212> DNA
<213> Homo sapiens

<400> 753
gacagactcg tctaatcaga gatggggaga aagtcgaagc ctatcagtgg agtgttagtg 60
aagggaggtg gataaaaatt ggtgatgttg ttggctcatc tggtgctaat cagcaaacat 120
ctggaaaagt tttatatgaa gggaaagaat ttgattatgt tttctcaatt gatgtcaatg 180
aaggtggacc atcatataaa ttgccatata ataccagtga tgacccttgg ttaactgcat 240
acaacttctt acagaagaat gatttgaatc ctatgtttct ggatcaagta gctaaattta 300

<210> 754
<211> 300
<212> DNA
<213> Homo sapiens

<400> 754
cagagatcaa acaattgtag atcccttcag ttcaaaacat aatgtgattg tgggcagaaa 60
tggatctgga aaaagtaact ttttttatgc aattcagttt gttctcagtg atgagtttag 120
tcatcttcgt ccagaacagc ggttggcttt attgcatgaa ggtactggtc ctcgtgttat 180
ttctgctttt gtggagatta tttttgataa ttcagacaac cggttaccaa tcgataaaga 240
ggaagtttca cttcgaagag ttattggtgc caaaaaggat cagtatttct tagacaagaa 300

<210> 755
<211> 300
<212> DNA
<213> Homo sapiens

<400> 755
cagcggatgg ccgaaaatct aggcttcgtt gggcctttga aaagccaggc tgcagatcaa 60
attacgaagc tgtataatct cttcctgaaa attgatgcta ctcaggtgga agtgaatccc 120

tttggtgaaa ctccagaagg acaagttgtc tgttttgatg ccaagataaa ctttgatgac 180
aacgcagaat tccgacaaaa agacatattt gctatggacg acaaatcaga gaatgagccc 240
attgaaaatg aagctgccaa atatgatcta aaatacatag gactagatgg gaacattgcc 300

<210> 756
<211> 191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(191)
<223> n = A,T,C or G

<400> 756
cccagctcct tgggaggctg aggcgggaga attgcttgaa cccggggacg gaggttgcag 60
tgagccgaga tcgcactgct gtacccagcc tgggccacag tgcaagactc catctcaaaa 120
aaaaaaaann aaaaaaaaan ccctgttaan nncannggtn taagngaatn gttnangnct 180
ttaaannagg t 191

<210> 757
<211> 179
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 757
caaataagtt aaatgtatat ggcattggat tggaattgga ggtatcagtg tgaactcatg 60
gttttgggtt ttttgttttt tgccttttt gttttgtttt tgttttttga ggcagggtgt 120
cactctgttg cccaggctgg agtgcattag ncaccatnac agntnagcac annctatgc 179

<210> 758
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 758
caacagtccc aaccagtcga attagaccca tttggtgctg ctccatttcc ttctaaacag 60
tagatacttc tgatggattc tcggcattaa ctcctgtttc ataaaagtgt gaacagtttt 120
atgaatttga aagaaaattt ggtagctctt tatagcattc attcttaaag atcagtccta 180
ataggtgatn tntaaatnnn ccanntanaa gaatgaagcn tctctacngg gtagtaactt 240
gatncctctt nagganaana gggngctaaa tngcaagctc tnactaatgg ttctgctact 300

<210> 759
<211> 62
<212> DNA
<213> Homo sapiens

<400> 759
ggggtatcag ttactggatc taagcatgtc cactctacac gctttttttt ttttttttt 60
tt 62

<210> 760
<211> 300
<212> DNA
<213> Homo sapiens

<400> 760
cacaaggtca ggagttggag accagcctgg ccaacgtggt gaaaccccgt ctctactaaa 60
aatacaaaaa ttagccgggc gtggtggcac atgcctgcag tcccagctac tgagaaggct 120
gaggcaggag aatcgtttga atctgggagg tggaggctgc agtgagccaa gattgcgcca 180
ctacacttca gcctgggcaa cagagtgaga ctctgtctaa aaaaaaacac taagcatgta 240
gtttctatat aactagaagc ataggatatt ctgatctgca atccatcaat cagtgccaat 300

<210> 761
<211> 300
<212> DNA
<213> Homo sapiens

<400> 761
tttgaatatg gactatagtt agataatagt cttaggtaat agttaaatgt cctgggtttg 60
attattgtgg ttatatgggg gaatgtcctt gtactcagaa gacatatgct gaagtacagt 120
atttagagat aaaagtgtca tgtttgcaac taactttcaa atagttcaga aaaaaaaata 180
tgtatatatg tgtctgtgcc tgtatatgaa agagagaaca caaatgtggc aaaatattaa 240
caattggtgg gccaggtatg gtgggtggct catgcctgta atcccagccc tctgggaggc 300

<210> 762
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 762
cctttaaaag gcagctgcaa atgacccatt tttgtgataa aactaactca gagtacaggt 60
gcaaccccac tgatgtaaac agcttttgag gctttgaggt tttagatgac agtcatctaa 120
aacaccagct tctcaaatac atcagcttca ggcctgggct gagcctgagg agcctcctag 180
gaagttagag atttttgagc tcaaagggct caggagaggc ccaatagttt tcatgcttca 240
ttaacccgaa ggcttcccga caatcgncca agggttncta aaag 284

<210> 763
<211> 289
<212> DNA
<213> Homo sapiens

<400> 763
caaagatact ggatactaga aggcagtgga ggaaggtctt ccaagtgagg atgaaacatt 60
ttaaacctag gatccattaa atccgaaggc taaagaaagt caccacacat caggactaaa 120
atgttgactt cccataaaca ctattttatt ttatttttat tttattattt tattttattg 180
tatttttctt agactgagtc ttgctctgtt gccaggctca agttgcagtg agccaagatc 240
acgccactgc attccagcct gggcgacaga gcaagattcc atcttaaaa 289

<210> 764
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 764
ccagcctggc caacatggca aaacactgtg tacactacaa atagaaaaat tggccgggca 60
tcatggtgtg tgcccgtagt cccacctact caggaggctg aggcaggaga atcgcttgag 120
cctggagggc ggaggttgca gtgagacgat accgtaccac tgcactccag cctgggcaac 180
agcaagactc cgtctccaaa aaaaaaaatt taaaangatt tttnttatgg nggtttcana 240
aatggttgtg nggcaggctg gntgnantgg cacangcctg nantnccagc acttt 295

<210> 765
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 765
cagtgaatnn gtaagttcaa tctgtngcnn atngaggtaa aatatttata gnataaanct 60
gngcagctta nccanttttg aatatgcaat tcagtggatt aagtacattn tcantgttgt 120
anagccatcg ccatcatcca tctccagaag ttgtgcatct taccaaattc tgtgcccagt 180
gaacaataac tccccacctc cccttccccc agcaacagcc accccttttg tctctatcat 240
caacttcact actcatattt ctcatgtaag tggaatcata cagtatttgt ccttttg 297

<210> 766
<211> 300
<212> DNA
<213> Homo sapiens

<400> 766
ctctcatgga gctccagagt gacatccagc attgttagca tgcgatcaac atcatagacc 60
atcagtgtgc aacacgagtt accaagaggg gctttcttag tggaaagaga gtgataaatt 120
ggtaacatgg aagctacttc ctgtgttctt tttctgagaa ctagaagaag gaatacaagt 180
tggccccatg ctaatgtgta tatacctttt ttacatacca atcactagtg tgtttagaaa 240
ttaggaaagg tcagtaagtc tccagtatat ataaacatct atagtgtatg gaaaggtctt 300

<210> 767
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 767
cgagtttttt ttttttttt tttaatanat ncggcanttt natttcaatc gcccaancna 60
anttancnng nngnaanctt aaangaacca anttnaaccn aaanagttcc ggnaaaaata 120
ncaaaaancn gaaanttnta aaagggaagn ccccctaaaa ncnngaaaat tcaccnttcn 180
ttagggttnc ntnttcantt tngatngncn ctngaggctn gcaantttta aancaanctt 240
tnaaatcnng angnctnttn tgaaaanatt tcancccan cnctaaaatt 290

<210> 768
<211> 300
<212> DNA
<213> Homo sapiens

<400> 768
agggacaagg ctataaatat cattaatacc aggttcagga gtttgcactg cactaaaaat 60
caactcagct atttgagcac cttttataga gtggaaatgg ggttgggcag tagagaagag 120
cacttttaga gaggcttttc tgcagtagtc aggggttaca cctgttaacc agccataatt 180
tttttttaa gcggctgtgc tgaggatgag ccccatgtag ttggtgcagg tggggacaca 240
ctgcctgtgt aactagaaaa actaggcatg gccgggcacg gtggctcaca cctgtaatcc 300

<210> 769
<211> 300
<212> DNA
<213> Homo sapiens

<400> 769
ctgcaatttc tccaaagctt gccactttcc agcctgtttc cccaattcct ctgtgctctc 60
ctagagctct gtctgaatcc tcgcagccac acctaggtct gagaactcag gctttgagtt 120
actgatcttc cttggattag gagaacaggt gttcctcctc ccctctccta gcagccctaa 180
tgtctgacct agcctatcaa gccttaggcg ctggaagaac ccttctcaga cacgcaggac 240
ccaggtaaag tcaaagcttt gccctttgc ccactgtctg ctaccagggc tcacccactg 300

<210> 770
<211> 300
<212> DNA
<213> Homo sapiens

<400> 770
aggggcctta cattactttc ttgcagcact gatggctttt gtttgaggct gcacaaattc 60
ctgcatttcc cttgggttga atggtaggga tgcgggcagt tggtgactgg gtgaaccacc 120
tgacttgagc agggctacga ctctctctgc aaacgaaacc cagagacatg aacagtgctg 180
agatttctca gtggtttccc atgtaggctg ctttccaagg gcagcaagca tggcttcatc 240
actcacccag tgcttctgat tcagcactgt gatgctcggt taagttttaa tgaggtttta 300

<210> 771
<211> 300
<212> DNA
<213> Homo sapiens

<400> 771
caagattgag cacacggaga cagatactgt ggaccccaga agcaatggac ggcccccccac 60
tgctgctgct gtccccaaat ctgcgaaata catcgctcag gtgctgcagg actcagaggt 120
ggacggggat ggggatgggg ctcctgggag ctcaggggat gagcccccat catcctcatc 180
ccaagatgag gagttgctga tgccacccga cgccctcacg gacacagact tccagtcttg 240
cgaggacagc ctcatagaga atgagattca ccagtaaggg gagggagggg ccctggaggc 300

<210> 772

<211> 300
<212> DNA
<213> Homo sapiens

<400> 772
gagtatttgc tggtgcattg gagagtttca cgtaattctt gtgcagattc agcaagagag 60
tttgccggca tgctttgcac agcccctggt acccagtaag gcgattatta gcattggtgc 120
ttgctggaat cagatattcc agaatattct gtcacagctc atcgttgccc tcttcttttc 180
tgtgggtaaa ctgaggcaga aactcaggct gggtggaact ctgcagcctc agctggagac 240
ctcgtctggc caaggactgt ggggacacag gccctctagg ctgccacctc atggtcccag 300

<210> 773
<211> 300
<212> DNA
<213> Homo sapiens

<400> 773
cccacctcgg cttcccaaag tactgggatt acagacgtga gccaccgcac ctggcctaaa 60
tttcaccatc gtttctattc ataacttacc tgcaaagtga ttatctgact agtactactg 120
caacaaagat aataaagtgc ctgatgttta tatcaaatag gatatggcat gtttctgagt 180
gtttctaaag aaaaatactg aatgaacccc tcgcctaacc tagtgcctgt ggtaacaata 240
actgacatgc attgagcgct tactgtgtgc caggtgcttg ttcgaggtac tttaccggta 300

<210> 774
<211> 300
<212> DNA
<213> Homo sapiens

<400> 774
ccaggcttga agttatctct aatttagagg ttagggacag tgacacagga aagaggctct 60
gagctttata tctggagatg tgggatcata aaaacgtctt tttaatctga tgatcattaa 120
aacacccgga gatgaggcac agctgctaat cggaatacat ttccatttct gcggggattg 180
agcatgtctt cggaaccctc tgcaatagct ttagaaacaa acgttccttt tatcaggtga 240
gaaaactacc ctatggcatg cctccggata tgtagttctt cctaggctac aaaatatcag 300

<210> 775
<211> 300
<212> DNA
<213> Homo sapiens

<400> 775
ttttcagcca cctccactga ctcctacctc caaagtttat actatcagac cttattttcc 60
taaggatgag gttagtagga gggctgcttt ccctcagcct ggattactgc tttgtcctag 120
aagatgaaga tggcatatgt ggttatgcct tgggcactgt agatgtgacc ccctttatta 180
aaaaatgtaa aatttcctgg atccccttca tgcaggagaa gtataccaag ccaaatggtg 240
acaaggaact ctctgaggct gagaaaataa tgttgagttt ccatgaagaa caggaagtac 300

<210> 776
<211> 288
<212> DNA
<213> Homo sapiens

<400> 776
gttttctcct gttacatcat gctgaatcct ttcccttagc cattagcttt tattatgtgg 60
tcttcatagg aaagccaccc tggtgccaag cctagcttgt ggggaggggt atgtgttcca 120
gaaactgctc tttgtgttcc cttcaatgag gaaacaacat gtgtctactt atgtggcatc 180

caactgcttg gagctccaca cttccctttc gcgactcagg ctctggtgct gttgccaatc 240
cttgcttggc aaagactgtt cgatcatgtg gggtccttat ttacaagg 288

<210> 777
<211> 300
<212> DNA
<213> Homo sapiens

<400> 777
tgaaactttg taatttggac cccctaattt tgtacatgtt gatgatagga ataagggctt 60
cgtttatttt cactgcatgc tctctatgga aagaggatgt gctaagcaaa caagcattgt 120
aaacaatatt tcagaggcaa ggttttggcc tgctttaaaa aaataaaatg tttgcaagta 180
caattaaaaa ccagtataag ggacaggggt gggatgaaaa cctgtctcta agattacgaa 240
gcctgcgtta tttcccctaa atccccttcg aggaagattt gaatccctca tcaacaaatt 300

<210> 778
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 778
gcctctgtcc tgaacttttt aacccggtgc cacaacccga gggtctccat aggggcaggt 60
aaacggggat tttaatcatt ttaagtgtct tagaatgata ttttgggaaa aagcactcct 120
tttcctaagg actgcgactc ggtgaacaga aaggaggcta tgcggtgtgg ccagccaact 180
caaggaggac gaagcagcct ttgcctctaa actgcctgga accanangcg tattnttctg 240
anccntcnna ggnagtgctg agtactgatg cagtctgtag ggantaactn ccttcccctg 300

<210> 779
<211> 300
<212> DNA
<213> Homo sapiens

<400> 779
gttaagagca ctgaagcggg ggtcagaggc ctggctttgt ctataactca ccgagtggca 60
ctgggcttcc ctctgccttc acgtttcatc tctgacctga ggggcctggc tagatggctc 120
ttctggcttt gacacatttc tactggggcc caggctcaag tctcggtggc cctgggtggt 180
cactggagac tgttcctgtg gaggccactt caaggctgcc ccggaggtcg cccaacctgc 240
ttctacagca ccctggggtc gccccttccc taacgaggag ctcccaagat gtagttttgt 300

<210> 780
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 780
ctagagtgca atgttgcagt gcaatgctgc aatctgggct cactgcgacc tccacctcct 60

gaggcaggag aatggcgtga aaccaggagg aggagcttgc agtgagccga gatcgtgcca 120
ctgcactcca gcctgggtga cagagcgaga ctccgtctca aaaaaaaaaa atntaattat 180
caaatgcntc ccattgngat agtcctacnt tatgngacat taacctatat tcctgggtcc 240
ttttaattcc caactactgc tnttanaggt cttanccttt tatgttaatt ttta 294

<210> 781
<211> 300
<212> DNA
<213> Homo sapiens

<400> 781
agtttaaaaa tacttctttg taaaagttat tgcacaaaga aaagacatga atgtgtccct 60
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taacttttac aaagaagtat ttttaaactg atcattaatt ttatgaccac agaaatgaga 180
tgcaaaattt atgctattgt cagtggcaca ggctcacagc accactgaca ttttgtgtga 240
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<210> 782
<211> 300
<212> DNA
<213> Homo sapiens

<400> 782
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gagtccgtgg gggcagaagc taccatcctg tgcctgccct cactctcagt gtgactggtc 120
ttcaggatgt ttaggtggct ccacatgcgg atgtacagct ttcccctgct tgttttcccc 180
atggcatatt aacagcgaga tctgcaagaa tacatcattt tgtacagaac aggatgtatt 240
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<210> 783
<211> 300
<212> DNA
<213> Homo sapiens

<400> 783
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ccccaagtgc tgggattata gatgtgagcc cctgcaccag acaattatat ttatttttaa 120
aaacgcccct catgaagtct gggtaattct ctccagattt ctccttatca acaaatttat 180
aagagttagg aaaaaaatga tgtaaataaa gcacttaaat tgcgacagtg gttctattct 240
taacatcata atgcttatga ctaaggagca ttctttttttt tataaattaa atgtattctg 300

<210> 784
<211> 300
<212> DNA
<213> Homo sapiens

<400> 784
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gaaatacaga acatttcctg aaaccgtgtg gttgaggtga aacaggcatt ttgcagtctt 120
atattttgag taaggccaaa cctgcctagt gttataaaac tagacaaaaa acccaggtac 180
ccggtcttgc aggatagaaa tgtgtgacta aaatgaagca tcgatctgag aagactacaa 240
attagcggga acctttggac aggagcatgc tatacattac ttagattaat gttgatattt 300

<210> 785
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

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acgagatgca tcatgccacc attttcctgg agcccttcag gaagcttcca ctcatggcag 180
aaggtgaagg gcagccagca tgttcagtga tcacgtggtg agagggaagg caagagagag 240
aagagggagg ggtcaggctc tatttaacaa ccagcttttg tnccgtnnca tgaggtgaga 300

<210> 786
<211> 300
<212> DNA
<213> Homo sapiens

<400> 786
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acctcgtgag tgctgaatag cacgaggaaa taaacagggg aaggaagttt gggtgaatag 120
ccaaaaggag tgtatttttc cagtgatact ctcatatcac cttttctaac cttcacagca 180
tagatgtgga cataggattg gtgcctccat attgagagtt gaagcatctg tggcaaaata 240
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<210> 787
<211> 300
<212> DNA
<213> Homo sapiens

<400> 787
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acagcacatt tcctaattca gggaccatcc cctatcccaa attccatcct gtgagatgtg 180
aaacctgtga gttcatgtga atgagtggtt gaagggcttg acgccatgta gtctcttagg 240
aaggcttcag ggtgctctta tgttgttgct ttgccattat caaatggcat tgattgatcc 300

<210> 788
<211> 300
<212> DNA
<213> Homo sapiens

<400> 788
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gagccttgtg caattcccgg accaaatgct gaaactgcaa gagtgccctt taaaagacct 120
tcttaggcat gtgacttgtt ctctaccaga acctttgggc aacatgaagg aagtcaaagg 180
catttactgg cttgctgttg ctgcctgcac agcacctgac cctcaaccag cgtgtttgct 240
cctgcttcag tcaactttat atgctttggt cctgtcagat aatctcggct caatgagcat 300

<210> 789
<211> 300
<212> DNA
<213> Homo sapiens

<400> 789

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ttttcagtag agttggggtt ttaccatgtt gaccaagctg gtctcaaact cctggcctca 180
agtgatccgc ccaccttgac ctctcaaagt gctgggatta caggcatgag ccatcacgcc 240
cggccagctg ttggttctta atgacacagc ttaactttat tgtgaaaaga ttgcagcaac 300

<210> 790
<211> 300
<212> DNA
<213> Homo sapiens

<400> 790
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tttaaggctt ttccctcaaa tttattacaa atttagtatt tttagtactt gatgactcta 180
attacatgaa tgcacctgga atgacatttg taacagaaga cagtctgact tgctttcagt 240
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<210> 791
<211> 300
<212> DNA
<213> Homo sapiens

<400> 791
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taatagtgaa ccagaaatca agcagccctc agaaagactg aaacgcatct acggatcatc 180
tcaatctgat tgcataaagg tggttcaaga tttattagtg ctttttactc gcctctccaa 240
tttttcatat ataatgtcca gcaccacatc aaaaataacc cagcatagat ggagataaga 300

<210> 792
<211> 300
<212> DNA
<213> Homo sapiens

<400> 792
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ctttgactct gccacctccc actactcagc tcactcatac ttcctgccat ctttcatctt 120
cccaataagt atatcatttt cattacatta gtatcagact ttacattatt atgaccatgt 180
aaatgctatt tctaactgag ccatgtagta tactctgatt acttttcctt tcttgcacaa 240
ctttttcttt tctatggatt gctacttatt ttttattggt tatttgctaa gctttctgga 300

<210> 793
<211> 300
<212> DNA
<213> Homo sapiens

<400> 793
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atgaataatg gagggataca gttcggtcca taacatacac taactgtctt tgtatactaa 180
tcctcatttt gacagattgt catttaagaa aaaattattc ttaagtagaa tcattgactt 240
ggacccaatt ggaagcattg ttgtcacctc tcttttggtg cttccttttt acctttggat 300

<210> 794
<211> 300

<212> DNA
<213> Homo sapiens

<400> 794
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aacatttgtg caatgctggt gggaatgtca acccgtgcgg ccctctggaa taagcctggc 120
agctcctcca agagttaccg tgtgacccag caattccact cctagctcca cccacaggaa 180
ttgaaagcaa agacgcaaac agatgcctgt gcaccaaagt tcacggcagc atccttcgcc 240
atagtggcag catccgtcgt cacagcggca tcatccttca tcatagcggc agcatccgtc 300

<210> 795
<211> 300
<212> DNA
<213> Homo sapiens

<400> 795
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ctggggagtg ttagcgttgc tagctctgct gaggttgaaa tgaacgtgga aaaaataaac 180
tgatacacat atatgtcttt gtaagttctg ttcaccacat ctgctttgac ctacaacact 240
gctgtgttta tatcaggttg tttataaaac cttggaaact tcgctttcca ctccatttgc 300

<210> 796
<211> 300
<212> DNA
<213> Homo sapiens

<400> 796
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ctccccattt gttgtagtct gtatgtgcta tacccaacct agagcagggc gccatgcctg 120
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gacatgagca attgtacttg gctcaaattt ttgttttaat tgggcttttt gtcagaagaa 300

<210> 797
<211> 300
<212> DNA
<213> Homo sapiens

<400> 797
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gactaatggc ccagggacac acagtcatcc tctgcaggca acagtcaggc ttctacttgc 120
tgaagccgtc aagggcttga ctgtcacact cagtgttctg gaaaacaaat cagtaaagca 180
atttagagga tcttttgcaa atcagagaaa aagaatcaat acaaggcgaa agaattctga 240
tcagcacttt aaaacgtgct tatcagaaac ttttcttctc tcttttaagc tttggttcta 300

<210> 798
<211> 300
<212> DNA
<213> Homo sapiens

<400> 798
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gtatcatcca cattacagac cccgttgtac aaaactgaaa ttctgactgt aacgccatca 120
tgggatagtt ctgacctgct tgctagttga tatgtgaaag cctgaatttt gcttcaaaaa 180
agccattcag gattaacagt gtattgtgta ataaagtgga ctttgtgtga aagttggaga 240

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<210> 799
<211> 300
<212> DNA
<213> Homo sapiens

<400> 799
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ctgccatgta tatccgaggc tttgggccta ggggccttat cagtgtgaaa ttagtcccca 120
gtgcaaagca gccagtctcc caagagacct tggcagagct gggagttctg tgtgctttgc 180
cttttgaaga ctcattcagc tctgccatgt ctcctctaca ctgttttgta caaccttact 240
gcacacttaa cactcgcatg gggatgcagc agtgccccgg cataaggatt ggaggactgt 300

<210> 800
<211> 300
<212> DNA
<213> Homo sapiens

<400> 800
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taatcccagt gttttgggag gcctaggcgg gaggatgcct tgagcccagg agattgaagc 120
tgcagtgaat tatgagccaa tgcactccag cctgggtgag agtgagaccc tatctcaaaa 180
cagcaacaac aacaagatac aaattgagaa actgttactt gatttgcgat atgtattctg 240
tccagcagtg atagaataac aaggactggg tttaccttgc tattttaagc aacaatatat 300

<210> 801
<211> 300
<212> DNA
<213> Homo sapiens

<400> 801
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agacaacaac aaatgagaca acagagatct gaaactctgc ctggcccctg gtatatacca 120
agtccacagt taaattagcc tttgttacta aatcattgtt tgggtagaaa tcctcagatt 180
ttggatttct caagtgctcc ttttctactg tccaaaaggc agaatgttat ttttgctcga 240
ttccattatg taatatccta tgaatttgaa atttcggagg aggcacagca tggggctgtg 300

<210> 802
<211> 300
<212> DNA
<213> Homo sapiens

<400> 802
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actctctctc ttgagatctg atgtccccag tcccctcatt gttgaatgtg aatagaatag 120
gaaccaccgt tttgcactgt tcatggctat gttgagttat gtgggggaga agggcatatg 180
gtagtaaact gaattctcct gtctgcctac agctgcattt ctcacttgtt tctcttctct 240
ttagtgctgt gtacatacct ctgtcagcac taataacgtg taattatttt atctatttac 300

<210> 803
<211> 300
<212> DNA
<213> Homo sapiens

<400> 803

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tggcaggggc cctgatggtg gctttcgtca agtcaaagaa gctgtcatgc gttatctgca 120
gacactcagt tgacacttgt tatatcatgg gaccccggaa attggagtga agctagaaac 180
agaaaaccca tgcagggcct cggattccca caaatgtgac aagaggtata gggagtgagt 240
cgcagcgctt tgctcgtgac cctgggatca gagcacccat caggcttcca ttactgtggg 300

<210> 804
<211> 300
<212> DNA
<213> Homo sapiens

<400> 804
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ttaaccattt ttaagtgtac tgttttgtag tgctgagtgt attacattat tatacaacca 180
atttccagca ccttttcatc ttgcaaaact aaaactcttt acctattaaa caactactcc 240
ctgtttctcc ctcctcccag tccatgagaa gcaccatttt actatctttt ctgtgagttt 300

<210> 805
<211> 290
<212> DNA
<213> Homo sapiens

<400> 805
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aaatgtttag ccagaaatct tgggatatag gagaagaggg ggagacttga ttgattaggt 120
tgtaaatatt tgtcctatgg accacggtaa cgtggattag cattcagagt agtaaccagt 180
agtgggagtt ggagtcatag agtattgggt ctctttatcc caggagattt ccaatggggt 240
cagtttctac tgacctttta gagagaccat gctatgctgt ctttttttt 290

<210> 806
<211> 300
<212> DNA
<213> Homo sapiens

<400> 806
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ggtgagaata ggcttggttc cagtttttaa ggtcacactg tcctaatttg caatgcatca 120
caccatgtac taagttggta acaaccgctt agaggaaagc tttcgttatg caagggagaa 180
catcaaaaag ggcacttatc ccaaatgaat gcagcaattt aaaccaaaga tgtttacgca 240
gggcaagaac aaagtaaggc aggagtttgg ggtcaactag gctgatgtct ttgaacaccc 300

<210> 807
<211> 300
<212> DNA
<213> Homo sapiens

<400> 807
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ggcgtgaacc cgggaggcgg agcttgcagt gagctgaaat tgcaacactg cactccagcc 180
tgggcgacag agtgagactc cgtctcaaaa taaaaaaata aaatgggaat atcaataggg 240
cctatttagt agggtggaag tatagctcta atgagatggt ccatactggt cccccagcac 300

<210> 808
<211> 300

<212> DNA
<213> Homo sapiens

<400> 808
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taacaccctg gattccacgg ggcagcaaat tccacacact gcacccatgt tgtgagcgga 120
gattttcggg ctgaccaaaa cttgaggcga actgagtctc catcttaaca ctcaaacaca 180
cttcatggcg gcctggaaac aaggcaatca ttatgaagct tcagcccagt tcttctgaaa 240
ccaacgtatt gggcctgctt cattgtctct ctaggggcta atcacaaaca tgtgggaagg 300

<210> 809
<211> 300
<212> DNA
<213> Homo sapiens

<400> 809
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<210> 810
<211> 300
<212> DNA
<213> Homo sapiens

<400> 810
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tgagcttcca gtctttttaa ttgtagacag gaaggtaggc aggagagcaa taggaaggct 240
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<210> 811
<211> 300
<212> DNA
<213> Homo sapiens

<400> 811
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ttaaagtcct tacaacagta tctcacacat agtaagcatg gcatgtggta gttactatca 240
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<210> 812
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

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gttggggaaa gtgacaggca tagctgactc ggggtcattc actaagccag gagcccagga 120
agacacacag atgcaagcag agatcgtgcc attacactcc agcctgggct acagagtgag 180
actctgtgtc aaaaaaaaaa nnaannaaan gggccttgng tggtaccagg tanaaaattg 240
aatntcngtt gncatnagnn acctgtnctg tatgatcnct tcccattccc cagntgacgg 300

<210> 813
<211> 300
<212> DNA
<213> Homo sapiens

<400> 813
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tcttcctgcc aagtcagtgt ctcacgatcc ctttcaacac agccacgagg aagccatgat 120
acatcaactg gcactggcaa ataaaatcaa acctatttgc ctatccagtc ttatcccact 180
ttgttgtttt ctctaagtag ttggaaaaca acatgtccag agaaaaatac cagaacttat 240
tctgagtatg ttcttcagag caaaccttta gaatcttaat gatgtttaga cactcaggaa 300

<210> 814
<211> 162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(162)
<223> n = A,T,C or G

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gctcntcttt gtttnngana ctacatagga cgatcgtgga ta 162

<210> 815
<211> 300
<212> DNA
<213> Homo sapiens

<400> 815
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tcaaagctta gccaggagaa aaggcgctag gagatacccc actgggatcc ttgaagaatc 120
ataacctaaa aatagatgtg aacctgaagt agacaagcga tacaaaatct cagtgagctc 180
agtctgggat tggtttagct tgatcactcc cattcagctg cctaccagag gactgggcga 240
acgatcactg aagaaagatg ggagtctcta cctttctcat aagttgtttc aatgaaaaat 300

<210> 816
<211> 300
<212> DNA
<213> Homo sapiens

<400> 816
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gacgcactct ctggtatctc ttttgacctc ccggaggctt tcctttgtcg gtcgcggcgc 120
cactgtacta tggcatacct cgttttatta cgcttcgcag atagggcatt ctgaaaacaa 180
atggagggtt tgtggcagcc ctgagtccag caattgtatc agcgccattt ttccaacagc 240

atgtgctcac ttggtgtctc tgtgttacat tttggtaatt ctcaaaatat ttaaaacttt 300

<210> 817
<211> 300
<212> DNA
<213> Homo sapiens

<400> 817
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tgtaaacctg tctgcaaaat tagcttttt aaaaaaaaaa aaaattgggg gggttaattt 120
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aggatacgat tttgaaccat atgggcagtg tacaaaatat gaaacaactg tttccacact 240
tgcacctgat caaaagcagt gcttctccat ttgttttgca aaaaaatgtt tttcatttcc 300

<210> 818
<211> 300
<212> DNA
<213> Homo sapiens

<400> 818
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ccaggaactg tcctggcaga taagacagac tgtgcaaggt catcgtcatc ggcatgggaa 180
gggcattaat taccaaagtg gagacacagt cactgtctcc aagagcattt ggaatcactt 240
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<210> 819
<211> 300
<212> DNA
<213> Homo sapiens

<400> 819
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gaggatgggc atattttaaa gacttgagct tacatcatcg catcttgaaa gaaccgagta 180
taattgagtt gctgatacaa gtgggtactt gcaccaggtc cgggtcaccc acatctctat 240
ggaaacacat gtttgcttta aagcccagca atcagaagca gatccttata ggagccagca 300

<210> 820
<211> 300
<212> DNA
<213> Homo sapiens

<400> 820
attaaagttg aagcctttct aatttttgaa ggttgagcac tttggttatt catggtttta 60
tatgacgatc atcttttatc catcgctgca gttttctatt ttgacttgaa ttggaggcag 120
agctccacca ccccagtgtg tcgtctgatt tcccagacta gagtccagcc tttcctgtgc 180
ttgcctggct tccctccatg ttgcttccta ccccaccatc tatacccttc acatccaaaa 240
tccaaaacct cacactcata cgagaatccc tgttagggtc ggtttatatt tacacactaa 300

<210> 821
<211> 272
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 821
cctcattatc caccacgcac agatggtaca gctggggctg aacaaccaca tgtggaacca 60
gagagggtcc caggcgcccg aggacaagac gcatgaatgc agaatgaccg cgtgtncttg 120
nctgatcacc tggggatnac ccctgnaccc ntgtnttgnt caggacntct tatagntnct 180
nnngttntct ttttntnant gttgtnntga tnntttnttn ntttnntgnn gcttnaaggt 240
ntnatgtntn tngtggtnat tttannтgat tt 272

<210> 822
<211> 300
<212> DNA
<213> Homo sapiens

<400> 822
cagatacagc ctagtgtccc tcagttacac aatagtgtgt cccccagtgg taggacagtc 60
tactactgag tcctcctggc atgagtcgag ctgagattag gatagggtaa tgacccttca 120
gttttgggga agggaccaga gctcggccag tgagaagctt ccagctccgt ctggccatat 180
ccaggctgct gagggtcctg ggctctgtcc ttaaacctca tcactgacat gacccagcaa 240
acctcctcaa gaggaaaaag tccccttggg tcaaacacag cttgtgcagt tctcggggac 300

<210> 823
<211> 300
<212> DNA
<213> Homo sapiens

<400> 823
ctttgccatt gtggctgtgc gagctcagcc tcctggaaac ccgccctgag cttggttaac 60
agcattcact ccaggtttag cccagctcca ggttatcgca ggcaggactc ccgagaacag 120
gttcatgttt gctttttggg aggtgctgcg ctaaagtgga aaaccaccct gggccgagtg 180
ggacctcccc agctgggcgg ctgttaacca gccaggatgt ctgaccctga gaagtcaccg 240
tgcactcttg ggactcattc ttctcatcag caggatgggg tgatggagcg ggccttactg 300

<210> 824
<211> 300
<212> DNA
<213> Homo sapiens

<400> 824
ggcagagaat cccttgtaga aaggtggggg agaatcatag gatattataa ctgtaaggaa 60
catgcaagat tttccagatt ataccccttga tagaatagat aagttcctta aggctcagat 120
cttgcttaaa gtcgtccagc ctgttagaga caagtagaac acgaagctgg cctctggagt 180
ctttattgag tactttgtac aattggtgta gactgggaga gccctcctca cttccccttt 240
cttgtgctgt aatttcctgt ggggcagaac acctcagagg tttctgtgca tcaaaataag 300

<210> 825
<211> 269
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

<400> 825
gaacaagctc agcctcatca acttcaggtg agtgttgggc tagaggtaga ctaggccttg 60
aggtcacagc ctgctctcca cacagtgagc tccagactcg agattttctc tcattccatt 120
ttggttctca gggaaagagt gaggcaggca gcactcccct gactcacact ggcttctgca 180
tagggtgctc tggggaagct tggccttatg ccataaggca tctgggcagg gccactgnag 240
ctgnctgatg tagcctgcct atttagnat 269

<210> 826
<211> 300
<212> DNA
<213> Homo sapiens

<400> 826
cacagaccca gaacctgcta tgcggaacaa ggctgatcag caacttgtgg aaatagacaa 60
aaaatatgct ggattcattc atatgaaagc agtggctggt atgaagatgt cttaccaggt 120
acaacaggca atcaacacat gcctaaaaga tcctgtaagg ggtttcagac aagacgagtc 180
ctctagcgct ttgtgttcac acctttactc catgatccgt ggaaaccgcc aacacagacg 240
agcctttctt atttctttac tcaacctctt tgatgacaca gcaaaaacag acgtgactat 300

<210> 827
<211> 179
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 827
gagctgctca gagctgcctt gaaggacggc cactcaggcg tgcccctgtg ctgtgccacc 60
ctgcagtggc tccttgctga gaatgctgct gtggacgtcg tgagggcccg agcactatct 120
tccatccagg gagtggnccc tgatggcgcc aacgttcacc tcatngtncg anaggatgg 179

<210> 828
<211> 300
<212> DNA
<213> Homo sapiens

<400> 828
gcttgaagtc tccttggaat ctttccttgt ggtgcacatg ttcttttgat tttattccac 60
ctttgattgt cccatagcaa aacaaagaac ccacttaatg gaagaacttg acattctccc 120
atgtttgttt caaagccaca taggcatgtg tctacgagat gctgctttga taatgagttg 180
gttatactcc tgcatcctac tcaattgcat aaacattctc taattcctaa tggaaaggct 240
gaagaacctt aagcctactc acttggacct gctgttgatg agtgcctggg atgctgagtt 300

<210> 829
<211> 300
<212> DNA
<213> Homo sapiens

<400> 829
ggtaagtaac ctgtgcagag cacagaacta ggattcagac ctacagaccc acaagtcagc 60
ctctaaggcc cacttataac tgctcttctg cttgcaaggc cctatggatg aaatccagtt 120
ataacctcct tttgctataa ctagacacag agggaggcgt ttctccctaa tctgtattta 180
tccagacaag ctgtccagca agatttctga gtgaggggct ttaaggaagc aatctgcggg 240

tgtgtagcct tttctccctc agcaaataca gaaggagctt atagcccggg ctcaccctgc 300

<210> 830
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 830
ctggtcannng gnggctgnnc cctncccngg ccnaccggcc ngccncatgg gtttgccttn 60
cccgggcncn ccnngggntn cngggntggg ngctnnaccn tnccccccctc agggntatnt 120
ttncctntnc ccttncctnc ccgncnanan ntttnccngg ggngggcnaa aaaaaaagtn 180
aaaagaaaag aaaaaaaaaa aagaaacaaa ccacctctac atattatgga aagaaaatat 240
ttttgtcgat tcttattctt ttataattat gcgggaagaa gtagacacat taaacg 296

<210> 831
<211> 300
<212> DNA
<213> Homo sapiens

<400> 831
gtgggctctc ccttaaagac acatggccac agacacctcc ttcggatatg taatatgcct 60
tcccctgcgg ccttccgtgg tcacagcaac agggactgct caccccctcc agctggggct 120
tttctaacaa gcacagtcag aaatgcgcag gcctggggtt ggggatgaac agaagttgat 180
tagtgggcac agaaatacag ttagatagaa ggaatagttc cagcattcga tattacagta 240
gggagactgc atttaacaat aattgattgt atatttgaaa acagctagaa gaataagaat 300

<210> 832
<211> 300
<212> DNA
<213> Homo sapiens

<400> 832
ggcacttgag aagtctaaga gaagctctaa gacgtttaag gaaatgctgc aggacaggga 60
atcccaaaat caaaagtcta cagttccgtc aagaaggaga atgtattctt ttgatgatgt 120
gctggaggaa ggaaagcgac cccctacaat gactgtgtca gaagcaagtt accagagtga 180
gagagtagaa gagaagggag caacttatcc ttcagaaatt cccaaagaag attctaccac 240
ttttgcaaaa agagaggacc gtgtaacaac tgaaattcag cttccttctc aaagtcctgt 300

<210> 833
<211> 300
<212> DNA
<213> Homo sapiens

<400> 833
ctctcaaata gaaatgggag ataagaaata tatctgtgca atattaaatt gaaaaaaaaa 60
acccataaaa agtgtcaaag gcaaataatt tgctctagat cacaaaacta gttagcacaa 120
ggctaggatt ataaccaggg tctaggaaaa aatcctgaag gtgatttaac tgagtgttag 180
gccctgtcaa gccacctgct aaggctcatg gtctttcaga ctagcttcaa cattccaaat 240
caggcaatag ctacaacgga aagataattg gacggggaat cctgagatca gagtcctagt 300

<210> 834

<211> 300
<212> DNA
<213> Homo sapiens

<400> 834
cagacaagaa tcttccctgc cgtcctttag tatgtgcagt actggacctg atggtagagt 60
ttattgtaac acacatgatg aaggagtttc ctatggatct ctatatacgc tgcatccagg 120
tagtacacaa actgctctgc taccagaaga agtgtcgggt acgcctgcat tacacctggc 180
gggagctctg gtcagccttg ataaatttgc tgaagttcct tatgtcaaat gagactgtac 240
ttttggccaa acacaacatt tttacattag cccttatgat tgtgaaccta tttaatatgt 300

<210> 835
<211> 300
<212> DNA
<213> Homo sapiens

<400> 835
agaccattta actctacccc acactttcag tggtgggatg tgaggaagaa agcccatgcc 60
aagctaactg aaagcttatt tggctccaat tcggctgatg ttccctcact gcagaatgtc 120
ctggaaacca agggtttgca gctcctaaac ctattgcatt aggcacaccc aagaagaaat 180
cctgttcgat gcacatgctc cagtttcaat cagcaacaag gtcaaaagtt tccccccact 240
ttctgttcca cagtgcgttc cccttgcagc cagacattag gcacagattc atccctattg 300

<210> 836
<211> 300
<212> DNA
<213> Homo sapiens

<400> 836
ctcaccaatt agcactgcca ccgcaggtct gtgaattgca tgtgaaaata gaatttgtcc 60
agaagtgctc atgcaaattg tgcaacacaa atgtggcctc catgtcaagt cctttcacgt 120
gttctgacag actcatgtct ttccagattt ctctgatcgg cgccccccac ccccttgaca 180
gttaccagag ctcataagcc aaaggaaata gttcctgttg ccatgagtac tgtgtctgtg 240
gtgaggttta tgagctgctc ttagggctgg gtttttgcct gagaaaacaa tcagatttcg 300

<210> 837
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 837
ccaacctgct gtccctcaag ccccgcttct accagcctgt ggagttcagg aggcgagaca 60
tcctggcctc ctttgagaac tgatgggatc taccccctgt ccacgcggga cagtttctca 120
gaactggttc atagaccacc tgtgtcacca acagccagat acctaatccc tgagcctcct 180
ttgggaaggt ctggggccga gggtctggga attttttttt ttttttttngg nacanagtct 240
nnttnngtca ntgcantcca nccngggnaa caaatcgana ntcccntttn aaaaaaaaaa 300

<210> 838
<211> 300
<212> DNA
<213> Homo sapiens

<400> 838
ctaagcccca aaacgaactt caaactgggt gtggtggcac gtgcctttag tcccagctac 60
ccgggaggct gcggcaagag gattgcttga gcccaggagt tcgagtccaa cctgggcaaa 120
agagtgagac cccatctcta aaaccaaaaa ggtaccttag aaggtcacct ggttggctaa 180
ccttttaaag gcaggggcgt gacacgtagg acacattggg aatgtcttgg ctactacatg 240
tagccttctg ggatatatgt gcccagaggg agaagcactg agcctgaaga aactagatga 300

<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 839
atnncnntcg nnaannatnc nagaaattnn naagtnttna ncanananaa naaatnancn 60
cgcnangnna aaannnnngn nnnncgaccc caccagctct gtataggcct caaaggggct 120
gggagtgggc tgcccctcgg gtaggtgagc ttggcaacgt gtcttcaggt tggagagagt 180
ggataggcaa atgccataaa gcacatttcc agttcctgtg aaactcctct ctccgcaaaa 240
agtggagaac aatttgagga ctgaaataag 270

<210> 840
<211> 300
<212> DNA
<213> Homo sapiens

<400> 840
gccacttgac acagtgagtg gcctcttaaa tctctcgtta ctctaccatg tctggctgtg 60
tggtgtcttt ctcctgacga cttggtatgt ctcatggata ctcttcaaaa tctatgccac 120
agaggctcat gtgtttcctg ttcaaccacc atttgcagaa gggtcagatg agtgccttcc 180
aaaagtgtta aatagcaatc ctccccccat cataaagtat ttagccttgc aggacctgat 240
gttgctttct caatattctc cttcacgaag acaagaagtt ttcagcctca gccaaccagg 300

<210> 841
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 841
gttctcaggc cttccaggta gtccccttcc tggacttaag agtgcaaact cttctctgtg 60
gttctagcct tgggcagaat tatatcccag agaccacaga gcaactgtca agctgcttac 120
cccctcaccc agggctacag cctgtgccca gccctctaat ttgtgcctct cttgtgttgg 180
gggaggatga gggaggtttc nttnccttte ctgcnntggn ctnctanaaa gntcanagna 240
cccantgnaa ganancttta angnncagca tttagtg 277

<210> 842
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 842
gagacctcta acctcccgca gttgagcaaa tacactctga gagacattag ggactgtggc 60
aaaaagcagg caatccatgt gtgtcactta agccttgagc acagttcagt aggcaacaaa 120
ccaggaactg tcctggcaga taagacagac tgtgcaaggt catcgtcatc ggcatgggaa 180
gggcattaat taccaaagtg gagacacagg cactgtctcc aanagcattn cnaatccttc 240
acagagtncn caaggngggg gaagcctatc nnncagctcc ncgcgggacc ggctgcccca 300

<210> 843
<211> 300
<212> DNA
<213> Homo sapiens

<400> 843
cgaggccagt tccaggccca ctttttgccc tgtgagcccc ctgcatttct ggtttctcct 60
tttccaggca gctactcggt ggagcttctc tatttaacat ctagttgtgt attcatgtct 120
tttgttgttt ctttcagtga tgttgcttat ttccccaatg acactgttgg gagcttctta 180
agaacaggct gtctagggac aaggatgtga agtggtacaa gggaaaagta ggccgtttag 240
gacctgtggg tgtgtcatga ctgtgcttgt atctcttgtt agctttgtgg ccttaggttc 300

<210> 844
<211> 300
<212> DNA
<213> Homo sapiens

<400> 844
actgaatggg ctgtatctgg ggaatcaagg tattagggtt gagcaaaagc aagaggaagt 60
agagcatttg atctcttttc ctttgattag gttgaggaca ataaagtctc attctctccc 120
ttcttcccat gggcagcctt atatatgatt gaagaacatt agtgcaaaga ttcctcatcc 180
agaaataaac tcttgtactt ctatactaat taaagattca tgtaaattac taagttcttg 240
gaaaactatg gagaactctg tgggggctgt cattcacact ttagtatgaa ttggtttaat 300

<210> 845
<211> 291
<212> DNA
<213> Homo sapiens

<400> 845
actgagtctg ggggcactga gtcagagcca gctccgcctg cccaccatga ctgggtggct 60
cttatacaca tgtactcttc ccatctccag gtcccagatg tcgaggcctg tccactctcc 120
ttttccccta ggcagggatg gaggggcgtg tcagtcctgt ataatttgga gtgactggag 180
gggtgggggt attgatgcat ggtattccag taaacttctc tgcttgtgtc ctaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 291

<210> 846
<211> 300
<212> DNA
<213> Homo sapiens

<400> 846

attgaaaaag agagttcatg taaagccgat tattatttaa tctaaagtta tgttcacata 60
ggaagcacta gtgtagagaa atagggtctg agggacaagg agcctgtgtg cccgtgtcgg 120
cagccgagta actgccaagg gtcccctgct tggcactctg ctgtcccact tgcttcctgc 180
cctctctgga ttctaacact tgtgccattg tgcatccgtc tcaggtcatg gtgctgttac 240
ttggtgagaa agcattattt aaatacccca gatgaggagt taggcacttt ctccagtttt 300

<210> 847
<211> 300
<212> DNA
<213> Homo sapiens

<400> 847
cacctaacat taggtggcac ttaatagtga tgataatcac ttatggagtc tactaagatg 60
tttgtgaatc ccttctccca ttcaaaaatc ttgacaaccc tgtgagacag atatgctcac 120
cttactgatg agtacggggg cttggcaaag taggtatgtt gttcatatta cacagctagt 180
aagtggaaga gtcaatatca tatactccca gattcagaac tttaaataac cccatgctac 240
cttctaggga aagcttctgc tatgtgtttg gagggttagg tgagagaaag gtgaatttta 300

<210> 848
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(181)
<223> n = A,T,C or G

<400> 848
ccggagcaga gagcgcagga gccgcggtac cccggcttcg tgctggggct ggatgtgggc 60
agttntgnga tccgctgnca cntctatgac cgggcggcgc gggtctgcng ctncagcgtg 120
cannatggnc anaatanttn nccttatctt tnntgnctng aannntnnntc tgnngtnctn 180
t 181

<210> 849
<211> 300
<212> DNA
<213> Homo sapiens

<400> 849
ctccctggta ccctgactac caggaagtca ggtgctagag cagctggaga agtgcaggca 60
gcctgtgctt ccacagatgg gggtgctgct gcaacaaggc tttcaatgtg cccatcttag 120
gtgggagaag ctagatcctg tgcagcagcc tggtaagtcc tgaggaggtt ccattgctct 180
tcctgctgct gtcctttgct tctcaacggt ggctcgctct acagtctaga gcacatgcag 240
ctaacttgtg cctctgctta tgcatgaggg ttaaattaac aaccataacc ttcatttgaa 300

<210> 850
<211> 300
<212> DNA
<213> Homo sapiens

<400> 850
cagagatgag tcagaacagt ctcctcaatc ctgaaattca acaaggcatc agaagggctg 60
gctgtggtca agcccagctg ctgtcatgtg aggagatgct cactgtggtc ttgttgagct 120
gatggccttg gttgagctga tggacaagtg aaggaggcca tggggctgtg ctgtccttcc 180
tgccgtacgt gccattccac tctcttcagc tctcccctca acagcatgcg agcccatacc 240

ttctgcattt ttccaggcct gtgagggata taggcctccc cttggagcac tgagtccgga 300

<210> 851
<211> 300
<212> DNA
<213> Homo sapiens

<400> 851
acggtgtctg gtggagaaga gctgagcttc cctggcccct tctgaaatgg ggtcaggaag 60
gggatcagga gggggattac cctgatgcct gctgcctgct cccatttgat ccacccacac 120
agcctctcga ggtaggggct tggcaccccg ttgtccagct gtgtgtggcc tttctgaatg 180
acgtggttct tgggcatctg agccagtcgc cagccatgtg ccctgcccca caggccctgg 240
gagttcctgg taggatccca cagctgttgg caagtctgag gtttgccttt gcagatggaa 300

<210> 852
<211> 300
<212> DNA
<213> Homo sapiens

<400> 852
gcctccctgg aggattctgg atgattctgg gagcaggtcc tggactctac gtgcttcagt 60
gggaatctgg acacgtttct tatcctttgg gcctcagttt cctcatctgt agaatgggaa 120
tgacaacagt acctacctca tggggttaag gctcaggcca gttaacaccc taaggagcga 180
tgccttggat gtcgtaaatg ctagaaaagc atgagttgtt atgaataggt cctggtgccc 240
cccaccttcc ttccacaaac caagacaacc aaggagccac acctgccacc tggctttgct 300

<210> 853
<211> 300
<212> DNA
<213> Homo sapiens

<400> 853
acaagaggag gcttatcggg aggaacagct gattaaccgg ctgatgcggc agtcccagca 60
ggagcgcagg attgccgtgc agctcatgca tgttcggcat gaaaaggaag ttttatggca 120
aaacagaatt ttcagagaaa aacaacatga ggaaagacga cttaaagatt tccaggatgc 180
tcttgatcga gaagcggctt tggcaaaaca agccaagatt gactttgaag aacaattcct 240
taaagaaaag agatttcatg atcagattgc tgtggaaaga gctcaagctc gttatgaaaa 300

<210> 854
<211> 300
<212> DNA
<213> Homo sapiens

<400> 854
aatgtatttt ttcagtaagc acccagaggc ctccattcag gctgtttttt cagatgccca 60
aatgcatatt tgggcattag aaggtctgtc gcacttagta gcagcatcat ttacagagga 120
tagatttgga gttgtccaga cgacactacc agctatcctt aatactttgt tgacactgca 180
agaggcagtc gacaagtact ttaagcttcc tcatgcttcc agtaaaccac cccggatttc 240
aggaagcctt gtggacactt catataaaac attaagattt gcattcagag catcactgaa 300

<210> 855
<211> 300
<212> DNA
<213> Homo sapiens

<400> 855

ctttttaag caaagcagtt tctagttaat gtagcatctt ggactttggg gcgtcattct 60
taagcttgtt gtgcccggta accatggtcc tcttgctctg attaaccctt ccttcaatgg 120
gcttcttcac ccagacacca aggtatgaga tggccctgcc aagtgtcggc ctctcctgtt 180
aaacaaaaac attctaaagc cattgttctt gcttcatgga caagaggcag ccggagagag 240
tgccagggtg ccctggtctg agctggcatc cccatgtctt ctgtgtccga gggcagcatg 300

<210> 856
<211> 300
<212> DNA
<213> Homo sapiens

<400> 856
ctgacctcct cctcagagaa agcactggcc aaccagttcc tggcccctgg ccgtgtgcca 60
accacagcca gagagcgagt gcccgccaca aagacggtgc atctgcagtc acgggcgcgg 120
tacaccagcg agatgcggag tgagctacta ggcacggact ctgcaggtga gtcaccatga 180
acacaacagg acttgagggc cagctgacta ggacaagaca tgtatccttg ctgccccggg 240
gcctccatgc cgagactcca tgccctgact ccaacaggag catcaccaaa ctacacctgg 300

<210> 857
<211> 300
<212> DNA
<213> Homo sapiens

<400> 857
ggagggcagg agagtgacca agcagctaga agagagggtg cagcacccca aggagaggac 60
tgggggagtg ggtgttccag gaagggctct ggcatgtaaa gctgcacaga agtcaaatca 120
gataaagcct gagagggatc catgggattt cttggcaaag ggattgttgg tgataccagg 180
aagagcagct tcagtggctc atggggagag aagccagatt acaggagatc agcaactgag 240
agagtgagtg gagagcatct tttaagaatg tcttgagtgc gggccggctg cggtggctca 300

<210> 858
<211> 300
<212> DNA
<213> Homo sapiens

<400> 858
ggagtgggga gagggcccac acatattgga aatgcagtgt ctgtctcctc ccctgaactt 60
ctggaaggat caaatctgat acacacaggc aggtgtgttc aaagtgtcct gggggtgctg 120
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<210> 859
<211> 300
<212> DNA
<213> Homo sapiens

<400> 859
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tgagggacac gcatggggca catggtaagc ttggcaaggg ctccaggaac gctgacgaag 180
ggttttagga cccccacccc catgcctgta ccagggctgg cctccagagc gggtgaggac 240
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<210> 860
<211> 300

<212> DNA
<213> Homo sapiens

<400> 860
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cacgggcatt gtagctttgt acatagcctc aggcctcact ggcttcatag gtcttgaggt 180
tgtagcccag ttgttcaact gtatggttgg actactgtta atagcactcc tcacctgggg 240
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<210> 861
<211> 300
<212> DNA
<213> Homo sapiens

<400> 861
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tgagaccatg gtgggctcag gtctcagcca ggatgagctg acagtgcaga tctcccagga 240
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<210> 862
<211> 300
<212> DNA
<213> Homo sapiens

<400> 862
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<210> 863
<211> 300
<212> DNA
<213> Homo sapiens

<400> 863
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<210> 864
<211> 300
<212> DNA
<213> Homo sapiens

<400> 864
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<210> 865
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 866
<211> 300
<212> DNA
<213> Homo sapiens

<400> 866
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<210> 867
<211> 300
<212> DNA
<213> Homo sapiens

<400> 867
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<210> 868
<211> 300
<212> DNA
<213> Homo sapiens

<400> 868
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gaacttcctg tgccccgctg gcgccttgtc cttcaacgcc ttcaagaccg tgatggacat 300

<210> 869
<211> 300
<212> DNA
<213> Homo sapiens

<400> 869

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caccattggg aacaacactt gctgtgcagg ctgttccaac agcacactct attgtacaag 180
ccacaaggac ttctttaccc acagagggcc catcaggact ctatagtcca tcaactaatc 240
gaggtcctat acagatgaaa attccaattt ctgcatttag tacttcgtct gctgcagaac 300

<210> 870
<211> 300
<212> DNA
<213> Homo sapiens

<400> 870
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aactcaaggg caagaggagg gtgatgaagg ggagccaagg gaccaccctg cctcagaaag 240
gaccccactt ttgggttcta gccccactct tcccacctcc tttggttcct tagccccaac 300

<210> 871
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<212> DNA
<213> Homo sapiens

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<223> n = A,T,C or G

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ancttnnctg tggccgactt gaggnntcct tntgncnngn ttangattgc tnccatnttn 240
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<210> 872
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<212> DNA
<213> Homo sapiens

<400> 872
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ggtaccttct acatgtgcaa agcagtttac agctcctgga tgaaagagca tggaggatct 240
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<210> 873
<211> 300
<212> DNA
<213> Homo sapiens

<400> 873
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ccccctgaag ctcgtgatga tcgttggcat cgattgttac catgacatga cagctgggcg 180

gaggtcaatc gcaggatttg ttgccagcat caatgaaggg atgacccgct ggttctcacg 240
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<210> 874
<211> 300
<212> DNA
<213> Homo sapiens

<400> 874
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gtgcctgtaa ccaggtcgtc aagccacagg ttttccagtc gcactgcggg agaaagcaag 180
acaacaggag aaatgaaggc atctccagga gtggaccaga gagcagccaa gccatagaga 240
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<210> 875
<211> 300
<212> DNA
<213> Homo sapiens

<400> 875
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ggttaactac ctcagtagca gaggattgaa ctataccctg tctgtactgt acatagaaaa 180
tctttgtaga taaaagcaag gcttgttaaa tatgatatga gggtaagatt ttaatatacc 240
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<210> 876
<211> 300
<212> DNA
<213> Homo sapiens

<400> 876
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aaagggctga ggatagaagg tgataagtct caagtatctc aagatattca gcagtgaatc 240
ttaacataaa tttgctttta ggggaagaat ttcaagcata ttgataggtc ttaaattttc 300

<210> 877
<211> 300
<212> DNA
<213> Homo sapiens

<400> 877
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<210> 878
<211> 300
<212> DNA
<213> Homo sapiens

<400> 878
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ttcaacaaga gggttattgt aattcagggt atagcaacaa ttttaatgta agcgagaaga 180
tgtttgtaac acttccaaaa aaatagtact gtatcagtcc agtgtccact ttcctccaaa 240
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<210> 879
<211> 300
<212> DNA
<213> Homo sapiens

<400> 879
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aatccttatc cgtttgctga gccaagcatg tgcatctgca gtgggtggcc caggctggca 180
gcacagatac caccatttcc ctttttctttg ctcagggcat ggcctgttta tctcgttgca 240
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<210> 880
<211> 300
<212> DNA
<213> Homo sapiens

<400> 880
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atgcagagaa gaacctcaca tatcatgcat catcagagga ctagagtgaa ctcaggaaat 240
atttgctctt gtcacatttt cttcaccgga gctagagact ttttactagg aaaaactgcg 300

<210> 881
<211> 300
<212> DNA
<213> Homo sapiens

<400> 881
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gcagatagac tgatctcaaa agcctgtcca tttgctgcag caggaataat ggtcggctct 120
atctattgga cagctgtgac ttatggagca gtgacagtga tgcaggttgt aggtcataaa 180
gaaggtctgg atgttatgga gagagctgat cctttattcc ttttaattgg acttcctact 240
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<210> 882
<211> 300
<212> DNA
<213> Homo sapiens

<400> 882
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gcacaactct gccaggaaac tgccagatag gagtcaggga tcaggcctag aacgcagact 120
gcagaaagga gcagatgtaa aagcagaaat ttaaaacttg cttttccctg tcctcagact 180
cttgagggtg gcccattgcg taagaagcag ggagccaaga acattcatac tggcctcctg 240
cttagcctta actgaaatag gcccccacgt aggatgtggg cctatgtgaa cttggctgtt 300

<210> 883

<211> 300
<212> DNA
<213> Homo sapiens

<400> 883
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tcctacctgc tggccctgtg gctgtccctg gtggccagcc cagctgcagc aaaacctaca 180
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<210> 884
<211> 300
<212> DNA
<213> Homo sapiens

<400> 884
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<210> 885
<211> 300
<212> DNA
<213> Homo sapiens

<400> 885
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<210> 886
<211> 300
<212> DNA
<213> Homo sapiens

<400> 886
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gccactgtga ggcttagctg tgcatctgtg aatgggagat tgttcttaga gattggtcat 120
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<210> 887
<211> 206
<212> DNA
<213> Homo sapiens

<400> 887
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attagccatg gatagaaatt gaaggttagt gggtgaaagt tttcagtctt accagtaaaa 120
acaagtgaga atgcactgac gtccagggaa aaaaaaacag atggggtcag ctttcattgt 180

206

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<210> 888
<211> 300
<212> DNA
<213> Homo sapiens

<400> 888
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<210> 889
<211> 300
<212> DNA
<213> Homo sapiens

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gtccttctta cagtttgttc cctcctgaca gttcattgat tacaatgtga aagcaccaac 180
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<210> 890
<211> 300
<212> DNA
<213> Homo sapiens

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cacccacttt gctgtcactt cccagctgaa gtgaggaggg actgttcaga aacatcgaac 180
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<210> 891
<211> 300
<212> DNA
<213> Homo sapiens

<400> 891
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aatgtggaat tcaaagatga aagagacgtg agctgcatca ctaaaaaaga aacatattac 240
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<210> 892
<211> 300
<212> DNA
<213> Homo sapiens

<400> 892

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ttaatttgta cttgagttca gtgcattgct gttctgggca taggaaatcc aggttgctgg 180
tgatgaacag ctgaaaagag ctgtgtcacc atggttgtct ctgtcagtca tgtgaccacc 240
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<210> 893
<211> 300
<212> DNA
<213> Homo sapiens

<400> 893
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gctttacatc taatggaaaa cacacagtga agtccagaag gactcactgt ggactggtag 240
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<210> 894
<211> 300
<212> DNA
<213> Homo sapiens

<400> 894
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<210> 895
<211> 300
<212> DNA
<213> Homo sapiens

<400> 895
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<210> 896
<211> 300
<212> DNA
<213> Homo sapiens

<400> 896
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<210> 897
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<212> DNA
<213> Homo sapiens

<400> 897
tgtacatgtt ccagtgggat gggaagcagc agagaccaac agagtctgaa gaagcaagct 60
tctgagttat gaaagcctgg gttcaggaga ctaacctata tgtaggttcc taggaaagtc 120
cagttaaagg gcctactttg ccactgctgc ctccttctta atgctgaacc tcatctccca 180
caaggggca gtctcagcag gtgtcagctg agccatgtgt catctgtcca ggctaactgc 240
ccacacatcc ttctgcaaag ggtacctctt ggttatcagt gctcactgat ccctatataa 300

<210> 898
<211> 300
<212> DNA
<213> Homo sapiens

<400> 898
gtgaggggct gtctggccct tctgattttt tgttaacgag acatggattg tggcatcaag 60
atttagattc attcctctgt ttgttggagt cattgaagcc agtatatcct ggacattttt 120
taaagaggtc cccattctga gaaaagacag gagttgaatg tcttattgat tcttacctt 180
ctgttcgtta tagacgacca gaggaaacaa atgcccgaca cggattcgac tcagtcataa 240
gtgtgaacca aataggccga tctgggttct ctcactgact gaagaggaag agaaataaga 300

<210> 899
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 899
aattaagntt tttgggttna ntgccctncn ntnaantttt taaagcagnt ttgantttg 60
nctggnntna aantgngtnt taangnangt gangagnncn taaaattttn anccntgngg 120
nnccccccc ttttttttt gcattgtatg tcaaaagcgc ttgttctttc gtgcatgtgt 180
aagatttaat ggttccattg tattatttga ccatgacatt ttggagaaac attcccagct 240
gtaatgttgt gtatggtagt tctcactgga tgctagagtt ttcaaaacca ctattct 297

<210> 900
<211> 300
<212> DNA
<213> Homo sapiens

<400> 900
cttgttttaa agataattgc tagatttatg ttttagcttt ccataaaatg gaataacata 60
aaataaaata taaataaaat atgaaataaa ataaaagcca tggggaaaag gtagggtttg 120
attgctaata agaaatttct tggaaaagag actagctctc ttttggtttt ccaaagtcca 180
cattttataa cattttagt gcttggtgtt tgcttgtggt attacattag ataaaaatgt 240
atcacagtgt tggtttatac tggatgttta aataggattc attgaaaggg gtgtgttttc 300

<210> 901
<211> 300
<212> DNA
<213> Homo sapiens

<400> 901
ctggaaggtt actgcaaaga cagcctggtg aaattgttgg gagtacagag gctttaatgg 60
gttctttgag gtcaggtaga ggttatgggg ggagcactac agtgagcata tacccaaaat 120
gaagccagac ttccaaggta cgttctcact ggagagggag cttaatggta aagtttaaac 180
tttaagggtt taggttttag attaaggccc aggagatcca aggggaagga ggagggtagg 240
aaatcagaga taagaggagc tgttgtcatc gcaggtatag taataattaa gatatgttaa 300

<210> 902
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 902
attatgaaca gatatggagg ccagagctca tttgggtaaa cttactcctg ctgagttagc 60
aggttggtga gagaagctcc cctgagctca cctgtctctc tgactgcctt ggagtaggtg 120
gcataacctt gtgcacagag aactagaaaa ggggcagaac cccggccttg cagttgtggc 180
aggtttccac tgtggtaagc taggttcatt cctcatcaag gaatgtgtag cagattgttc 240
actgtggagg agttaattat agaatgggtt attgttgnta ttcttactca tgaagttaca 300

<210> 903
<211> 300
<212> DNA
<213> Homo sapiens

<400> 903
caaagcttga tctattaata tattgatcag agttccatga tccttttcta aaatggtggc 60
tttatttttgc cagaataatt ctgcagggtg ttttttttgg gacggagtct cactctgttg 120
cccaggatag aatgcagagt ggcacaatct tggctcactg cagctcttgc ctcccagttt 180
caggagaatt gtgtgaacct ggaaggcgga ggttgcagtg agccgagatc aatcaccact 240
gcactccagc ctgagcaaca gggcaagact ccatctcaaa aaaatttttt tttggattta 300

<210> 904
<211> 300
<212> DNA
<213> Homo sapiens

<400> 904
tttctctttc ctttctgcac aatttagttc taaagccacc aggcagggca gaggaaggta 60
aggctttcca tggtgcttag gagcaggggt ggggttgtta tcataaccta agcaaagtta 120
caagggtaat ccatatgggg tagcctggtg tagagagtca gggccccagc aacattaagg 180
acatccctgc aggatggcag ccaggcttgg gggtacaaga ccctaaacag gatgatgaga 240
gcctccccaa ggagaggtcc caggtataga gtgtcagagc ctgagcagat gaggaaggca 300

<210> 905
<211> 300
<212> DNA
<213> Homo sapiens

<400> 905
tttgaactcc cttagcaagc tacttgtctt tttgcaggat cccatcggat tgctgtctcc 60
tttttcagat attactggat catcagctgt aaaggctcta tgtttaatta tgtctagcat 120

ttgaatggta acagcgcaga tgttacctgc ctataatcct cctcctctct acagattttg 180
ctttgttctt gcttcttgtt tttgagatcc tgcacacaag ttgaaattaa ttaaaaacag 240
tagagcaact tagtctggat aagccttcat ctggcaaata atgttacact gccagagatt 300

<210> 906
<211> 300
<212> DNA
<213> Homo sapiens

<400> 906
ccaagatgcc aatttccatg aagtcttgat ttatatatat gtacacatgt tatgcacata 60
catgtttgtt ttctaacagt tatttttaa gcttttgaga taattttaga cttacagaag 120
agttgtaaaa gtagtagagt tcttgtatac tctgcaccca ccttgccctt atgttaacat 180
cttacgtaac aatagaacat ttgtcaaaat taagaaatta accttgatat aatactaact 240
aaagtagaaa gtttaaaaag tagagatttt agtcttttca ctaatgtcct tttactgttc 300

<210> 907
<211> 300
<212> DNA
<213> Homo sapiens

<400> 907
ggctattaaa aatgtaatca gtgtgaaaat tcatgccatc tgaatcgtac gagtatgtaa 60
gggatttgag ttccttacag aattttctgt aatttagtac ttcaagtgac ttataaatgt 120
atatacttct ctctcacaaa agtgttagga gaaggaaaat cttaaatact agcttgattt 180
cttaatttaa taacaaaaaa caattctcat aacatgtatc acctaacatg tcactttcac 240
tttaaaagtc taaagagttg aggtttattt cttttctttt aaagttgatg tttatgttgg 300

<210> 908
<211> 300
<212> DNA
<213> Homo sapiens

<400> 908
tcaccatgtt gcccaggcta gtcttgaact cctgggctcg aatgatcctc ccaccttggc 60
ctcccaaagt gctgggatta taggcgtaag ccactgtgtc tggcctagtg tatgattatg 120
catgagtcac gcaatgttct ggtcctggat tccaggagta gaggacctag ctttaaatca 180
attagtttca gctaaactga ctagaaccag gtcaaagtgt aattctccct ccagctcccc 240
caaaactaga gttgggggga actggaggga gcaaaacact gatttgatac tagtcagttt 300

<210> 909
<211> 147
<212> DNA
<213> Homo sapiens

<400> 909
gtcttcctgt gcagggtgct ttggtagcca tcagagagga accaagggca acatcttttc 60
ttcccaggcg ttcttctctg ggtgctttat tctcttcttt ttctttattt cgcccccacc 120
cccatccccc gccttttttt ttttttt 147

<210> 910
<211> 274
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 910
ccaacttgga tgaaggccag cgcagagccc aaactttgtg aatcagtaac acgtgtatgg 60
aacattcact tacatgcaca gaggtgccaa gggacagcct aatttaagat tcatataaac 120
acatttatct ggcaacataa gttaatattg tggtaggagt cccaccaagt taaaattcta 180
aagtgtttga atatgggcat ttttaaagaa agaatctgca taccataaat tcacgctttt 240
aagtgtatga ntcannggna anantggatn nnca 274

<210> 911
<211> 300
<212> DNA
<213> Homo sapiens

<400> 911
aacagataga gacttggtct taaaaaaaaa ggaaaagaaa aggaaacaaa aaattatctg 60
ggcctaaagg tgtgtgcctg tgctcccagc tacttgggag gctgaggtgg gaggatggct 120
tgagccctgg aggttgaggc tgcagtgagc catgattgtg ccactgcgct ccagcctggg 180
tgagagagca agactctgtc tttaataata ataataataa taataaagtg gtcaggaagg 240
gacccccagg gaggagcata aacctctcca gtggctgtga tttgtcagta aggacatggg 300

<210> 912
<211> 300
<212> DNA
<213> Homo sapiens

<400> 912
gcaactcctc tccaatgagc tactcctgac acaaatggag aagtgtgccc tcatggaagc 60
cctggttctc attagcaacc aatttaagaa ctacgagcgt cagaaggtgt tcctagagga 120
gctgatggca ccagtggcca gcatctggct ttctcaagac atgcacagag tgctgtcaga 180
tgttgatgct ttcattgcgt atgtgggtac agatcagaag agctgtgacc caggcctgga 240
ggatccgtgt ggcttaaacc gtgcacgaat gagcttttgt gtatacagca ttctgggtgt 300

<210> 913
<211> 300
<212> DNA
<213> Homo sapiens

<400> 913
cagaatccct ttttcctttt tttgttaaaa gtactcatcc ctaatattac attgttctgg 60
aaggactgaa aataacagaa ctcagcacca tgatcggacc gggacaatca gattatttca 120
ttcctcagca aacggagatc gatccgaaaa gtggaaatat gagctcttct ttggtgttgg 180
catatggacc ctgagagaaa gaactttaat ttttttcttt ggactgcaat aaagtatagc 240
tgcctaaaat acgtttcctg acacttggag gtttgtccac aatcgggaaa taaaggcaag 300

<210> 914
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 914
cctaaacaga atccctttt ccttttttg ttaaaagtac tcatccctaa tattacattg 60
ttctggaagg actgaaaata acagaactca gcaccatgat cggaccggga caatcagatt 120
atttcattcc tcagcaaacg gagatcgatc cgaaaagtgg aaatatgagc tcttctttgg 180
tgttggcata tggaccctga gagaaagnac tttaattttt tctcttggac tgcaataaag 240
tatagctgcc taaaatacgt ttcctgacac ttggaggttt gtccacaatc gggaaataaa 300

<210> 915
<211> 300
<212> DNA
<213> Homo sapiens

<400> 915
ggcaaatagc cctaggagtc ccatttttt aagctgaggg aaataatttt caagaagctt 60
gtcttactag tagcatcatt ctttttact ggctcacagc ttggaagggg tgatggtttt 120
tcctatgaaa gctaacaaca tttgagcaga tccagtgtgc tggtgagtca cagtgaaagt 180
gtggagtgct aaggaagcct cctggtggaa atgtaagttc agagaaggtc tgcagaaaat 240
acagggtgaa atgttatcaa ggagccaggg tattatttaa gaagaggagg gaggggaaaa 300

<210> 916
<211> 300
<212> DNA
<213> Homo sapiens

<400> 916
tccaagagga gaagcatgtt ccaaaaccct taactttggg aatttagaac tagcttttt 60
actatcttct gcacagcata acttcagtct ccctttacta attcaaggaa atctcagtga 120
acaaattgta taagggtaga tgagctaaaa gctcactgag tcattaattt gtcataactc 180
atctaaatac aatgattagg cttgtgtagg tgtccctagt ttctctttct aaatcatgtc 240
ttagtaggga cagagcaata atggtggatc gtggcaacgg gaaggaagat gatgtgtcag 300

<210> 917
<211> 300
<212> DNA
<213> Homo sapiens

<400> 917
tgttgctgca ttctaagctt aacctcctgg tctcatggca gtgacttgag cttttgattc 60
atagaagaaa gccagaggtt ctgcttgttc ttgtctgcca gccctcgtcg ttctttctcc 120
tctgcctctc acctctaccc caaatacctc tgttcttagt ctcaagggga gaataacatc 180
agggagcccc tcatcttccc cagaaggact tctcgttcct catgtagtta actccattga 240
ttttcctatc ttggtgctga tagctctcta agggtagggc acacctcccc acagccaccc 300

<210> 918
<211> 300
<212> DNA
<213> Homo sapiens

<400> 918
caggaacgca acaaactcaa gtcgcagctc ctggtggtgc aggaagagct gcagtgctac 60
aagagtggcc tgattccacc aagagaaggc ccaggaggaa gaagagaaaa agatgctgtg 120
gttactagtg ccaaaaatgc tggcaggaac aaggaggaga agacaatcat aaaaaagctg 180
ttctttttc gatcggggaa acagacctag atccaaggcc acaagtaagg ctatggctct 240
gattctagaa gacaaccttc caagatgcct ggcaaaacca cctccctgtg ccacacagac 300

<210> 919

<211> 136
<212> DNA
<213> Homo sapiens

<400> 919
gtaagggagg gggtagggct gggttattaa gatacaggct gctgtatttt acattggttg 60
tgggggaagg ggagcctgga gaaaacaaag tcactattcc ctttttgaa acaggaaaaa 120
aaatattttt tgttca 136

<210> 920
<211> 135
<212> DNA
<213> Homo sapiens

<400> 920
cagactcgca ttatggacaa gtcccttctc cccacacaaa ggaagacata caccgcatag 60
tccatttcat ttcagctcct gatggcatct gaccgccgtg gacacttccc agtggtctgg 120
cttttggagg gagag 135

<210> 921
<211> 300
<212> DNA
<213> Homo sapiens

<400> 921
aagcagaaat gtgggtggtg tgactggggt ttggtgaggg gctgctgtgg ctggaatgga 60
gggctgccac aataatggaa atggtaaatg aggcaagtaa ggttggactg gtggcatagc 120
gtcaaggttg ccagctttat taaatcactc ttccaatatg ctagcactgg cctgttggga 180
aaagtaatac atcatgtaat cgaacaaaag acagaggcaa gctccaggaa tgggcactgt 240
aaacaggact tgtcccagag tagccagatg taggctttag gtaagttgat gcaagctgag 300

<210> 922
<211> 280
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

<400> 922
tctcgatctc ctgacctcgt gatccgcccg cctcggcctc ccggggtgct gggattacag 60
gggtgagcca ccgcgctggg cctggatcaa atctttatcc atgcacattg gaacacagga 120
ttactgggtt gaaatcattc tagttttgtc atttagatac ttgtacgatg aatctatttt 180
agcacaaggg ataaataact cgnnangnca tctntanntt gtntnntttn gtgnntttgn 240
ntanaccacn ttcangntcn angnnaactt tncttnggat 280

<210> 923
<211> 300
<212> DNA
<213> Homo sapiens

<400> 923
ggaaagggga cagagcagag ccagttgttc cacactttgg gaagcaggag tagcttttat 60
catcttcctc tggggagcag gcatagagac ataaactgag tgaaaatggg tggaggaaga 120

acttctatac ccacgaacaa catgtgaaga gagagaacca aacataaagt aaggagggtg 180
agttttattg tatgttgctt gctgacaact gttttggggg cgcttcagtg atatacattc 240
atagaaagac tttgttttat ggcagattag tttacaaaga gtattctgca agtgggatta 300

<210> 924
<211> 300
<212> DNA
<213> Homo sapiens

<400> 924
ctcaaaacca aatctcaact cagctacaga atctactgtg gtccttgtct gaaaaaatta 60
gttcactcgg ttggaatctt gtctcagagc atcctcatct ctttctcaaa agcccctacc 120
ccaacaccgg cgtgttggtt gtctattgaa acttacaagt ggatggaccc tttctcccga 180
ataaactggc ctttgaaagc tctaatcgaa atggtttggc aaaatccata ctgcaggaga 240
ttagggagga caagaatgat gtgccttttt gtactgctga gcctgatggt ggtgccacta 300

<210> 925
<211> 300
<212> DNA
<213> Homo sapiens

<400> 925
ggaaacagct ggactagaga tacacatttg ggcatatata tatatatata tatacagtat 60
atatatgcac gctgatttta tatatatata tatatataaa ataattatgg aagtcagtga 120
gattgtccag ggcaagaata taatgtcata tgagagggga gtccagactc tcaaggaacg 180
cggacattta aggggagagt ataataggat gggccgtcaa agtctaagtc agagcatcct 240
gatgttggag gcaaagcagg agagtgtgga ttaagcagct agacattggt tactggggca 300

<210> 926
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 926
atttcagcct gggcaacata gtgagactcc cgtccctaaa aaaaaaaaat cccacaatcc 60
tatcacacag agatggcaac acttaccatt tgttctggtc acctttggaa ggaactttta 120
aatcaatgtc ttgcttctct gtgggttctt ttgtgactca cacctgcttc tgggtatagt 180
atgactataa agttgatttc ttgggtaagg tatgatctat gagaggaagc ttctaatttg 240
atgagcatca gggnantttt anctggtata ccttttnttt gccctctcca atcaa 295

<210> 927
<211> 300
<212> DNA
<213> Homo sapiens

<400> 927
gtggtagcag gcactagata agaggtgaac cagtgtggag gcaggagggg taggaaagga 60
gatggaggca ttattaccaa ggcatgatag aagccatggg atctgataag tggtgagaac 120
tggaaagaga gggacaactc tgaaatttgc ctctgattgc agttaaatga tagcatgcta 180
atgacagagg tagcagtagg ttggggagag tgtagtagta tttctgtttt cagtacactg 240
ggttttaagc attgacaagc caccaaatgc aaatatcaag caaagagtgg cacatctagg 300

<210> 928
<211> 300
<212> DNA
<213> Homo sapiens

<400> 928
gcgatttatt tcacagagtt aaggggccag tacacttcat ggtataaaat tatctttttc 60
aggggatgaa ggcacaagga gaaaattact tgaagcttgg agatcttctc tggcaagcaa 120
tttacaaatt ctggtgttct ttgatctggc tccccgccca gacaaccagg gagttcttca 180
tgttctagcc tcatgtgttg cactataggc agtaatttgg catcagccat agaggaggga 240
tccgatagtt gtcattgctg cccgccacat atactccaca tggaatgata ctcataatgc 300

<210> 929
<211> 300
<212> DNA
<213> Homo sapiens

<400> 929
gggacactgg attctcattc tactcaaact cccactagga ctgttggctt gttcgcttct 60
caagtgtttg tatttttctg agttaatatt tttgggtgta atttacatgt aggaaaatgt 120
acacattttt agtgtacagt tcaccaagct ttggcaagca tgtatagcct ggtaacccac 180
aagccaatgg agacctagaa cattcccgtg accccagatg ctgggttctg tgtgccttcc 240
cagggcttgt ggctgggcac atcaggcatg gcgggtacca tgcctgacag ctctgaacca 300

<210> 930
<211> 300
<212> DNA
<213> Homo sapiens

<400> 930
gaatgggtag gaacaagcat tagcctggtc tgggttcctc cagctcttag gacaagttgg 60
aacagatttg ctgttctgat gattcatctt tctgatcaca gggatagcag aactcagctt 120
tgaagaaagg catctgcaga gatcatggca gttccatttt gcgttctgag tttgctcctt 180
taggtaaggg aactagaatg cagatacagt tagaatcagt ctctctctct ctgtttgtct 240
gtctgtctgt cactctctct ctccttattg cactgagggc cgggcgcggt ggttcacacc 300

<210> 931
<211> 300
<212> DNA
<213> Homo sapiens

<400> 931
gtcatgagaa gagccccaga tgggacaccc gttcttcctt gtgacattag ggaatttggt 60
acagctttct ggatcagttt ttgcctttaa gatgcatctg gactcatcaa acccagaaag 120
tgtagagcaa atattcctat tcccatgtcc ttggcagaca ttgctaatct atctcagggc 180
tccaacagag ttgggtctca gccttaccag cctggcagcc actagacttg atccctgaga 240
tgaaacctct tgaccacaca ggaactccat gatcttgaag ctcccttctg gctctataac 300

<210> 932
<211> 300
<212> DNA
<213> Homo sapiens

<400> 932
ccaacatggt ggtctcaaac tccccacctc aggtaatcca cctgcctcag cctccaaaag 60
ttctgggatt gcaggagtaa gccaccacac ccgtcctcag tgcctggact tctgcagtgg 120

acttccttta aaaatcctgg aatatacact gcagtaaaag aacaaagcat acttcagtcg 180
tttaaggctg aggtatgctt tgttctttta ctgcagtgta tattccagcc ttaaacgact 240
gaagaagaat gtcaagtggg gaagtggctt tggttttcag tttgtgggtt ctgaatccac 300

<210> 933
<211> 264
<212> DNA
<213>.Homo sapiens

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

<400> 933
ctgaagcagt gcaagtacta ccatggtctg agctccctgc cctgaagagg tcggtgcaga 60
ctcgggggcc agtcctgcac ccacctctac ccctcgccga cagccagacc acaacaccag 120
attgtaccca gatagctggg attggaagtg aggaggtttc tcaccccaca gataacccaa 180
gacacaaatg tgcaattaaa agtttatttt agaccacaaa aaaaaaaaaa aaaaaanntg 240
ngccnttnaa anttntgggg ggnc 264

<210> 934
<211> 300
<212> DNA
<213> Homo sapiens

<400> 934
gatgtcctgc tatacaccat ccactgccct gccccttaag cctcacatct ttcatctctc 60
ctagttccaa cccatggtct ccagacgatg actctgcctc cctgttctgg tagcattcac 120
agattgcctt gtttagtagc ctttcacatg agatccactt gacagcccct gtcctcaccc 180
ctcctcaaac tcctcaccac actgaaactc ttccagctcc atgagtaggt tcttgggtgg 240
tttcttcacc tgcaggttca ggtcaatgct cagccgggga ctcgacaggg atgctttgca 300

<210> 935
<211> 300
<212> DNA
<213> Homo sapiens

<400> 935
accaaagctg ctggagcctg aggcagagaa ccagaggccg gaggcagact gcctctttac 60
agccaggaat ctcagaggat ttgaaaaagg tgaaggacag gatgggcatt gacagtagtg 120
ataaagtgga cttcttcatc ctcctggaca acgtggctgc cgagcaggca cacaacctcc 180
caagctgccc catgctgaag agatttgcac ggatgatcga acagagagct gtggacacat 240
ccttgtacat actgcccaag gaagacaggg aaagtcttca gatggcaagt aggcccattc 300

<210> 936
<211> 300
<212> DNA
<213> Homo sapiens

<400> 936
gagccatggc agaaaatcag tgatgtcatt gaggactctg tagttgaaga ttataattca 60
gtggataaaa ctaccacagt ttctgtgagc cagcagccag tctcggctcc agtgcccatc 120
gctgcccatg cttctgttgc tgggcacctc tctacatcca ccaccgttag tagcagcggg 180
gcacagaaca gcgacagtac aaagaagact cttgtcacac taattgccaa caacaatgct 240
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<210> 937
<211> 300
<212> DNA
<213> Homo sapiens

<400> 937
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cttccatgaa ggactgagga gggagagtgg gggtccaggg ctggtgctgc tcttccctca 180
gctctgccgg ggctctaagg tccctctatt tatttctcaa ccctggctgg cctctcacca 240
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<210> 938
<211> 300
<212> DNA
<213> Homo sapiens

<400> 938
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cagcagggag gttgtagaca atgtccagac atcagagaga gggctgggct ctgatcctgt 180
gccaccctga aaggctttga tcctatggtt tggtcagaaa cagagcctgt aaaacccatg 240
tatgcagctg ttgctaaggg caaccacaag atgctcaaag gaccttaaag atgtagatgc 300

<210> 939
<211> 300
<212> DNA
<213> Homo sapiens

<400> 939
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tttagttcaa aaagaaggaa cacagatgac tactctgctg gcgacacggc cactctgctg 180
gcacgcacat agcatggcgc ctccttttt gggggactct ccttggtggc atctctggca 240
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<210> 940
<211> 300
<212> DNA
<213> Homo sapiens

<400> 940
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<210> 941
<211> 300
<212> DNA
<213> Homo sapiens

<400> 941
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tctgaatttg agaggcaacc gtatctggcc ttctaaggag gcagggagct acctgggagg 180
caacactgac aggtcatttt gcttcagtgt caagcatttt tttcctctcc ttttgttgtg 240
gcagctcagt gttgacaggg ctccacacgt cttctttgag tagtgggagt atgtgcccaa 300

<210> 942
<211> 300
<212> DNA
<213> Homo sapiens

<400> 942
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gcccagccac cttcaatgcc tgccaccctg cccgaggatg tacagagccg tgcccacaca 240
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<210> 943
<211> 300
<212> DNA
<213> Homo sapiens

<400> 943
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cctcccacac ttggagggtt ctactagtgt gcctgcgtgg ctgggttctg cacactcagc 240
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<210> 944
<211> 300
<212> DNA
<213> Homo sapiens

<400> 944
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tggaggagac gttccagtgt atctgctgtc aggagctggt gttccggccc atcacgaccg 180
tgtgccagca caacgtgtgc aaggactgcc tggacagatc ctttcgggca caggtgttca 240
gctgccctgc ctgccgctac gacctgggcc gcagctatgc catgcaggtg aaccagcctc 300

<210> 945
<211> 300
<212> DNA
<213> Homo sapiens

<400> 945
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aaccagcaga aaaaggcttc ttgttgggct gatggtgttt gtgcgagaag ctgaggtggg 120
cagggaggag agcctaggag agcggtaggg ctcatgggca ggccgttggt gtacgccttg 180
gccctgcctg tccccagtcc caccactgtg gactccaggc catcctcagt ccaggtggtc 240
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<210> 946
<211> 300
<212> DNA
<213> Homo sapiens

<400> 946
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tcatgagcct cctacatgat gatcctgcag ctgccacttg ctcctgtatg cctattcacc 120
accacctacc tgtgtttgca agttccatga ggaagggccc atgcctcctc ctgcttatca 180
cagtgtgtcc aaatcagtgc ctggttcagg gcctgtgtgt atgggacatc tcctaggcac 240
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<210> 947
<211> 300
<212> DNA
<213> Homo sapiens

<400> 947
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cctctcagct gtagctgcac cacccccgct ctggctacca ggctctcccg gctgggcact 120
gcgtggcctt gcccctctcc cgctggcagc tcctcagggg aacaggggct accagaggct 180
gatttctccc ctctcctggg ccaggggagg ggtattatcc ctgcctcctg cccccgatgc 240
ccaaagcagc atcttccagc actttccatc gaggacttgg gtggcagagt gtgggtgcag 300

<210> 948
<211> 300
<212> DNA
<213> Homo sapiens

<400> 948
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ttcctttatc atcaagtccg atgtatgatg gctatcctct ttctgattgg ccaaggaatg 120
gagaagccag agattattga tgagctgctg aatatagaga aaaatcccca aaagcctcaa 180
tatagtatgg ctgtagaatt tcctctagtc ttatatgact gtaagtttga aaatgtcaag 240
tggatctatg accaggaggc tcaggagttc aatattaccc acctacaaca actgtgggct 300

<210> 949
<211> 300
<212> DNA
<213> Homo sapiens

<400> 949
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tttattggat tatttgttta tttttctctc tctagactgc aagctccttg agcagaccat 120
gtttattttg tctaccacag gtgctcaata aatatttttg actatttatt acatgagaag 180
gtttccatgc aaacacccat tgaatacgat tgaacttgaa ccctaagaga tgggctgtga 240
cctttgttgc cctcaaacta atcaaagggg agtgatattc accatccaga atctagaata 300

<210> 950
<211> 293
<212> DNA
<213> Homo sapiens

<400> 950
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tgagaccatt tagagaatga ttaggggcca aaggtaaggg gtggactgtt aagccaacag 120
ggactcagag aaagcaaggg tcagggtgac cagaaataga gaaaaaaaag ccttacagag 180
gaagaggacc tggacctgag ccacagagga tgggtagaac ttagaaggag ggaatgagcc 240
cagtctgaat gatatgtcta caaagtatac aatatgcaat gatgattaac tga 293

<210> 951

<211> 300
<212> DNA
<213> Homo sapiens

<400> 951
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ctgtgatcag cttgctgcag gaggcagaaa gtaaatctga acttagtcag aacatctctg 120
cccgggaaca ttttgtattt accgatattg atggccaagt gtatcatctc actgttgaag 180
gaaactcagt aaaagacagt gctcggattc caccagatgg aagtatgggt agtattacct 240
gcatcgcttg gaaaggtgat acattagtgc ttggagatat ggatggaaat ttaaatttct 300

<210> 952
<211> 300
<212> DNA
<213> Homo sapiens

<400> 952
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gtgaaatggc ttttttacat actcagcatc aatttggtcc taaaatcagg agacattcac 120
ccttctccac cccaatttcc aacatcccct cctttgtaga gagagcactc tggaagccac 180
tgagccccat agccctaggg cctagaccac tattccaaaa gggaagactt ttccattact 240
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<210> 953
<211> 300
<212> DNA
<213> Homo sapiens

<400> 953
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agcttgatga catggaattc agggaaaaga ctatgatggt gtcacttgta actgcttttg 180
tgctgtaaaa ttgtcatgga ttaagaagag agttggctgg gtgcggtggc tcacacctgt 240
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<210> 954
<211> 300
<212> DNA
<213> Homo sapiens

<400> 954
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tttttaattc ttggactcat gtcctcattg cttcactcaa ttaaaaaaaa attattctcc 120
agtcccctcc cactttgctt cttgtatgca ttgtgaccga ccccacttcc tcagaatgta 180
acggggccag agggaaactt ctcacaaact tcgtagagcc tcctcagggg aagctaggaa 240
gaagacatca aatgttttta agtcatgacc aaacaggctt gttggggaca tatcatgggg 300

<210> 955
<211> 300
<212> DNA
<213> Homo sapiens

<400> 955
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tcgtccacct gctgggccag cttgccgccg gcagtgcagc gagcagcaat gccgttcagt 120
gactgcacag agccgtgtcc cagacacgct gtcagtgcct tcaacacgga gccggtttgt 180

tcattcggtg ctttgtttca ttaaataata gggaaatatc catttaaaac aggtatatca 240
gtggaaacac agagttattt taagtgacag acaaattacg gttgagttct gtggcttctt 300

<210> 956
<211> 300
<212> DNA
<213> Homo sapiens

<400> 956
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<210> 957
<211> 300
<212> DNA
<213> Homo sapiens

<400> 957
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gatcagcaca catccattca agcaccagac actggagaaa gtccacttga ggtcagtaga 120
gctgcctagc agatgcccaa ctgacccaaa aagcataaga cataaacatt tattgttgta 180
taccctctga agttttgcat gtgttacacc atattactat agtaatagat aattgataca 240
aatgtcctac atggcctgga ccatgcattc cttgctaaat ttatttcttg ctactctgtc 300

<210> 958
<211> 300
<212> DNA
<213> Homo sapiens

<400> 958
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gctggaattg agagactgag gacacaaagt ggtgtgctgg agaataaact agagcctgtg 120
gtgccagact ggcaacttgg ggattgtgtg agtgagggag agattgtgca gagctaatcc 180
taacattgct gatgagtgga cagaaaccat aggcctcatg aatagtgatt tctgaagtca 240
aagcccagta tgcttaaata tcaacccaag tggtttggga gaggggagca cagcttactg 300

<210> 959
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

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ataaacccct tcttaagtgc atgagatggt ttgatggttt gctgcattaa aggtatttgg 180
gcaaacaaaa ttggagggca agtgactgca gttttgagaa tcagttttga ccttgatgat 240
tttttgtttc cactgggaat aaagntggat tcg 273

<210> 960
<211> 181
<212> DNA
<213> Homo sapiens

<400> 960
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aacccgggac ggttgaaagc cttcgaaccg tgcaggggat gcctcgggcc ctggcccttc 120
gcttcctctc ttgtgttatg gaaataaaaa caaataaaac tacaaaaaaa aaaaaaaaaa 180
a 181

<210> 961
<211> 300
<212> DNA
<213> Homo sapiens

<400> 961
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gggctgaaac agacaccagc tctccaggac cagctgctcc aggaatcaac ctctaccctg 120
aaccaggtcc ctgaggacca ccacgtggct gcaacacagc aggagttcac agtccagagg 180
agaagcccga tgctgaacag agaatcacat ccgtgagcaa cacaaaaggt ctcaatcaaa 240
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<210> 962
<211> 300
<212> DNA
<213> Homo sapiens

<400> 962
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ctgacaacag atcaataaat ggcttttaaa aagcaaaacc cctcaagctg tttatctagg 120
aagcctgaca aaccctgccg cagtggtgtg gccccatgtg tccccagggc ctggggccca 180
cctctgcccc agaagtcctc ttagtgtctg tagacaggtc ccatttccac caggtcaacc 240
agggctgtgg cagtggacct ggatggcagg cagagcagag gaccgctgtt ctatttgttg 300

<210> 963
<211> 300
<212> DNA
<213> Homo sapiens

<400> 963
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gagaggtgct gttttagtcc cttttgcctg ctgtgacaaa atgacacaga ctgggtagct 180
tataaacaac agaaatttat ttcccacact tctggaggct ggaaagtcca agatcagggt 240
attggtagat tctgtgtctg gtgagggctc attttctgat tcatcgatgg caccttctca 300

<210> 964
<211> 300
<212> DNA
<213> Homo sapiens

<400> 964
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tttgaaataa aaaggaacct gtcaagtacc cagagaatat cagaactgct gtccgatctc 240
ctgaaattga aattaatttc ctcagtgact caatacccac tgccactcac tcaagccctg 300

<210> 965
<211> 300
<212> DNA
<213> Homo sapiens

<400> 965
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tcagtatctc aagttctgtg tagattcatc taaacactgc tgttatccat gctatacttt 180
accatgttat cccaaaaggg aatcatcagc aaattttacc agaaactgct gaattcaaga 240
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<210> 966
<211> 300
<212> DNA
<213> Homo sapiens

<400> 966
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gcagagagac agcacagagg ctgttggaat aaattcactg ggctcatctc acatgtatgt 180
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<210> 967
<211> 300
<212> DNA
<213> Homo sapiens

<400> 967
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cctgagccca gagagcttgg gtcactgtca cctgagtgca gctgggctgc ctcaggcagc 240
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<210> 968
<211> 300
<212> DNA
<213> Homo sapiens

<400> 968
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agcagaaagt catcatcttg gaagaaggta gccttcttta cacagaaagc gatcctttgg 180
aaactcagaa ccagtcatcc gaagactcag agacagagct gttatcaaat ctaggagagt 240
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<210> 969
<211> 300
<212> DNA
<213> Homo sapiens

<400> 969
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gaacaggcac gtgcatttgt ggcacactca gagctgctgg ccactagtgt gctttggaga 180
atcagttgtc tcccaggcgg ggaaggtccc tcagacataa aatactcacc catttagagg 240
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<210> 970
<211> 300
<212> DNA
<213> Homo sapiens

<400> 970
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gccgggccct cattcagcag atgtcccccc ctgcctttgg tctgaatgac tgggatgatg 180
atgagatcct agcttcggtg ctggcagtgt cccaacagga atacctagac agtatgaaga 240
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<210> 971
<211> 300
<212> DNA
<213> Homo sapiens

<400> 971
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ggcagacaca aagatgcaga ctgggttagg ttttagaaaa acttgactta aatcagtaaa 120
tacagtaaca gggatggagg gcataaggct ccagagcaat gctggcgccg tcagtgtgtg 180
ctctagaggt gcaacccggg tggttggtgg tcagcctggg tgacacagca ggtggcccat 240
gctggctgag gcctgcttct ctccttttgg agctctggct ttaccccagc ttccatgctt 300

<210> 972
<211> 300
<212> DNA
<213> Homo sapiens

<400> 972
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ggcactgagg tagaggccat ggctgcctct gatgccaaga atcataggga gcttgaggat 120
gcctactgga aggaccgacg acaaacacgt catgaggaag gagcaacgca aggaggataa 180
ggagaagcgg cgcctcgacc agctggaacg taggaatgag actctgcgct tactggagga 240
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<210> 973
<211> 300
<212> DNA
<213> Homo sapiens

<400> 973
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aggctcggag gcccagggcg gattgtggcc agtggaaggg aaagatgttt ctggcagggg 240
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<210> 974

<211> 300
<212> DNA
<213> Homo sapiens

<400> 974
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caggctgggc aacagagtgt gactccgtct caaaaaaaca aaaacaaaaa caacttctcc 120
ctcctccaca gactcctccc tggtcaccac tagtgatcca ccttatggat ctcccaaggc 180
cacctctgcc tctgctctgt gttgtattat ttggggacct gtggtctggc atgcattgta 240
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<210> 975
<211> 197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(197)
<223> n = A,T,C or G

<400> 975
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ttgacctgtc cgtgctgtaa catgcgtaaa aaggatgctg ttcttactaa gtgttttcat 120
ggcttctgct ttgannngtgt nangacacgc tatgacnccc gncagngnta atgnccccnn 180
ntgtnatnct gtttttg 197

<210> 976
<211> 300
<212> DNA
<213> Homo sapiens

<400> 976
gcgagatcct ccagttcctt gtcatcccaa atagggccaa gggaaaacac aaataaggca 60
tatccctgac atttggctcg caaggattcc ttctttaaga tttccccatc taagtggctg 120
gtttccccag cagatatcac aaatatgact ttgtttcttc tcagattggg tgtacttaaa 180
aatacattgt ccagagtcca ctgtaaggca tgaccaataa aagcatctcc atttagttgt 240
ttaactgact cgtgcacatg cctcttcatg aggcgcttac ttctgtaggt ggtaagattg 300

<210> 977
<211> 300
<212> DNA
<213> Homo sapiens

<400> 977
tgtcacaagg ggtttttgta gaagctattc ttcacagagg ttgggggaga gattaagcca 60
aaggatctct gaggtctttt tcaaatctat gattatgtgg ccttttgttc attgacttcc 120
atgtgttcta gttgatcatt acaaacctgg caggccttct caagggttca gtaattagct 180
gtcatttccc atttgtccag agagtgtcca acacaaaata cccctaagat cttggccaat 240
agagaaatgt catggaattt tagaaatgac agtatctgcg gagtttattc caagttatat 300

<210> 978
<211> 300
<212> DNA
<213> Homo sapiens

<400> 978
cttttctca ctgaaatatt taagcactgc attttaagaa aacttcctat tcattcgtag 60
acttttatct ggccagattt ccactctgag ggcttttctt tctagttatc tgacaaacca 120
taaattttat ttcctttaag ggcaaaacca acctccaagc acatttatgg cccatgtttt 180
aagagctggc cgccctttct atcctgtatc tctggttaaa cgtgttttct ttttcttgga 240
gcaaattttt caaagagggg ctaaagctat gtgttcctct ggagagaact cctgcctacc 300

<210> 979
<211> 300
<212> DNA
<213> Homo sapiens

<400> 979
gctgtccact ccagttgccc ttggctaagt ttagcctaac acacagggtt ttgacccata 60
gttctaaaat acacaaattt tgagactaca gcacttcttt ggaaagagga agaatgcaaa 120
gttcagtatt tcaatacttt gtattttact tgaaattacc cttagtagca tctttttttt 180
cctgtctgaa agcttttgtg tggatgagaa gggacatttc atttcctccc ttaacaaagt 240
gtcattctga ggttctcatg tgtgtttttg gaaatagaga tactggtttt gtagagtttg 300

<210> 980
<211> 300
<212> DNA
<213> Homo sapiens

<400> 980
ggtaagatta ggcagaggtt ttatctaaca ctaaagtttc cttgccttga tgagctttca 60
gtgttacgaa atgttattca atagcaatta tgagagattg ttttagccag aaactgatca 120
cttttaagtt actggattat tctgcttgag cttgtgagaa cctcaatgta ctccagtcct 180
ttctgaaata aggcaagatg taaataagaa ttgtgtgaag tgtttaagat ggacacttag 240
aattattcag aacagaagtt taaagtgtgt ggcctaagaa atgtaattca aaatgactat 300

<210> 981
<211> 300
<212> DNA
<213> Homo sapiens

<400> 981
gcctcatcca tggatcaggg aggcacgcca gggagtaacc cagttctgcc cagcaatcta 60
caccccacta actctgggcc ctgtctgtgc tatttaacat ttcattcaaa caggagctcc 120
tgggaagaag cttggctcag tatccttggc agatcacccc tcaaagtctc cctcaggtat 180
attctaagtg aggacggatc ccatatatac ctcacttagg ctttactctg ctctgcaagc 240
acaggcaaga ccagctacat ctttgcacgc caccctggt tcttagtagg ccaagaacct 300

<210> 982
<211> 300
<212> DNA
<213> Homo sapiens

<400> 982
attaaattca ttagtgtgaa agaggtggga gtgaggtttt ctggcctgaa gcagtctgca 60
ctgaaaggta cccaagtggc ctgaaacagt gtagggaaag acctgggaaa cactggacca 120
aaaaagcctg atctcatgga gacctgcatg gccctgttag agatggcgta gaagtgaaag 180
tcttaaaggg agcattagag atccttttaa tacacgactg agtgccagct tatttgtgat 240
gccccttccc agaccaggtt aggattcctg ggaaggccgc ggattccggc cctggaagag 300

<210> 983

<211> 300
<212> DNA
<213> Homo sapiens

<400> 983
ctccagtaga acttgagcac ttggaacctg aaaaatgtaa agaactggtc tgtatagtga 60
gagctgtgga ttgttctaga cttttgccca gccccaaatt ttagtgatag caaaagggca 120
ctggaactag aggccagagg gaaactatta aactcacgtg ctggcgtgag gaggggatgg 180
agccaggagc tcagactctc cctcatctca cgggcatttt gtaatactga catttccaga 240
tagaacctgc tgccctagtc tagctaccca cagttccctc cgagatgctg tatttggaac 300

<210> 984
<211> 136
<212> DNA
<213> Homo sapiens

<400> 984
cctgcagcca ctaatgcatt gtgtatgata acaaaaactc tggtatgaca cattttctgt 60
gatcattgtt aattagtgac atagtaacat ctgtagcagc tggttagtaa acctcatgtg 120
ggggaggtgt gggagg 136

<210> 985
<211> 300
<212> DNA
<213> Homo sapiens

<400> 985
cttaacataa cctatgagag tggacaggtg tatgtaaatg acttacctgt aaatagtggt 60
gtaacccgaa taagctgtca gactttgata gtgaagaatg aaaatcttga aaatttggag 120
gaaaaagaat attttggaat tgtcagtgta aggattttag ttcatgagtg gcctatgaca 180
tctggttcca gtttgcaact aattgtcatt caagaagagg tagtagagat tgatggaaaa 240
caagttcagc aaaaggatgt cactgaaatt gatattttag ttaagaaccg gggagtactc 300

<210> 986
<211> 300
<212> DNA
<213> Homo sapiens

<400> 986
gtttctaagc acttcctgta ttgcatatca actcatttaa tcctcacagc aatgtgagat 60
acatactatc ctccccattt tataattgag ggaactgaag catagacagg ttacatagct 120
ggtgactggc agatgaattg acttagccgt ggtcctgcag gtgatgagtg gcagcactgt 180
gctcttatca ccagctcttg agcgtgctgc atcctctcat ttgtcgttgg tctcccctag 240
tgttcagtac tgtgccttgc acgtgtttat actcagtagc ttttgaatga cagacttaca 300

<210> 987
<211> 300
<212> DNA
<213> Homo sapiens

<400> 987
tgagtgcctt ccgaaattga cccacctggg agctatttac aaatgtccat gtgggagaga 60
gagagcatga gagcacagta gcccagcctg ctggtcagca ggctcatctg tggttcacct 120
gtagacagag agcagatcaa tgtgtacttc agacaccaga aagtctggtg gctttggtcc 180
caagtgggtg aatcacctga ggtcaggagt tcaggaccag cctgaccaac atggggatac 240
cccgtctcta ctaaaaatac aagccgggcg tggtggcgca tgcctgtaat cccagctact 300

<210> 988
<211> 300
<212> DNA
<213> Homo sapiens

<400> 988
atgcaggaac tgaaaaatag tacaaattct agttcctttg gcttgagtga cgagcgcatt 60
agtttgggtc agctgtcatc atcgcgggct gcccatctga gtgtggaccc agatcagctt 120
ccaggttcag tgctttctcc tcctcctcct ccaccacttc ctcctcagtt ttcatctctc 180
cagccaccgt gttttcctcc cgtacaacca ggatctaata atatttgtga ctcagataat 240
ccagcaactg aaatgagcaa acagaacccg gctgctaata agaccaatta tagtcatcat 300

<210> 989
<211> 300
<212> DNA
<213> Homo sapiens

<400> 989
aaggccttag gctttttttt tgtagggtga gagtggggga gagatctctt gctctgttgc 60
ccaggctggt ctccagctcc tggcctccgg cagtcctccc acctcagcct cccagagtac 120
taggattatg ggcatgagcc accacaccta gccaggcttt ttatattgag ttggttatat 180
atgcttcata gccacacttt ataatattgg agtatagtat taaattacag cttgttgtca 240
agtcagtgtt tctgtaagac agtatatcca atattggtta gagtaacacc tatttggtga 300

<210> 990
<211> 245
<212> DNA
<213> Homo sapiens

<400> 990
cagagtcaac atggagcatc tcactgtgaa atgatccatg gattgaagga tatggtaaaa 60
tgtttatagg ttactttgaa agtaaaatat actatgtctt ggttttgagg atattggata 120
caaaactctc ttcctttagg gctactgaga cttgattcct gatcatcaga aatttcacca 180
gaaacaactt gcttccaata tacccaattc tatatgaaga attcatggag agtgtactgg 240
cactg 245

<210> 991
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 991
acccaccctc tccaggcctc agtcttatct ctgaaatggg gtgggtgttg agaggtggct 60
tctaagatct ttctacttcc caaacttgga attctctttt taggagcatc tgcgtgccca 120
gatgtatgtt ggagcccatg gtgtatgggg gtggggtggg gggaagggtg gagggtacct 180
acccccctgag gcttctccag agggtgtngg gacccanatg gacctgggtg aggaagggcc 240
ctggganaggg cnggcctnna gtctcactgn tccttangtg gnccgnngnt ncaaacctgg 300

<210> 992
<211> 300
<212> DNA

<213> Homo sapiens

<400> 992
gtcagcttca ggtaggagga tggcacagac tcaaggtcaa gcagaggtgt gagccacaga 60
agcagagtag caggccaagt tccagcatcc tggctgccag gaccaccgtg caggcttaag 120
aagctggagc tttaggatat ggagtgtcca tcacttggca tctttctcat agcccaggtg 180
gcatctgaga attaggttag ggttgatttg gaccctatgg tttggtaaat catgtccctt 240
gaatgtatac aaatgatgtc tgttgatatt taaaatatgt ttctttctgt ttaattgtaa 300

<210> 993
<211> 300
<212> DNA
<213> Homo sapiens

<400> 993
gtgagtccga gcatcagtgg cttctggagc agaccagcca cgtggaagag aagccttaca 60
gagatgggtc ggcagagccc tgctgatggc tgggccttgt gggcagccac tctgtgtgag 120
cagggtgttg ggcccataca cttcaaagac cagagccctg cactgggaga gtgctcctgg 180
cccaggctgg gaatcacctt tcgaggccct tcagactctg gcggggcttg ctgtggcctc 240
cctccagcta gtggtgtggc tgagcagact ccagggccag ggccagttcc cttctccccc 300

<210> 994
<211> 300
<212> DNA
<213> Homo sapiens

<400> 994
gagtcatctg ctcgagagaa tcagctgact caaggcatct tcaccaaagt catccaggag 60
attgcccgtg tggagaattc ctatgggcaa gagcgtcgct gccatctcat gtgagccctt 120
gggtgtgggg taactgcctt gcttctgccc ccggcacttg ccatgttcca gtgggggggca 180
gatcctcagg acttcacggg tatggttgcc agctgtgttc ctggcccctg gacacacagt 240
gtggcatcct catgtttgca cactttcccc aggctccagt ggccctgatg tcaatgttta 300

<210> 995
<211> 300
<212> DNA
<213> Homo sapiens

<400> 995
ttttgccctg ctaaaatgat gcttagcctg aaaaatcgga gcaccacttc tcaaatttat 60
ttttccaact cagtaattaa aaaaacattt acttcctgcc tactgggttg tggaatattg 120
tcaggatctc tgggttccag gtgagggatg cagaatgcag ggaaagacag gtcccctgcc 180
ctccagaagt cggtggcgcc ttttcagagt aacacacact ggagcagacc cctggaaaag 240
gacagtccac tggtggacca tgaccttggt caaaagaggg accaggtctg gcttgctcac 300

<210> 996
<211> 300
<212> DNA
<213> Homo sapiens

<400> 996
ctaccacatg cagcacgagc agtaccggca ggtcatcagc gtgtgtgagc gccatgggga 60
gcaggacccc tccttgtggg agcaggccct cagctacttc gctcgcaagg aggaggactg 120
caaggagtat gtggcagctg tcctcaagca tatcgagaac aagaacctca tgccacctct 180
tctagtggtg cagaccctgg cccacaactc cacagccaca ctctccgtca tcagggacta 240
cctggtccaa aaactacaga aacagagcca gcagattgca caggatgagc tgcgggtgcg 300

<210> 997
<211> 300
<212> DNA
<213> Homo sapiens

<400> 997
gagcggggag gcgagcatga gcccccgagc cggccctgtg gcctcctgga tgaggatggg 60
agtgagcccc tccctgggcc cagaggggag gtccctggag gcagcgctca ctatgggggg 120
ccctcccctg agaagaaggc aaaaagttcc tctgggggca gctcccttgc caagggccgg 180
gctagcaaga aacagcagct cctagccaca gcggcccaca aggattctca gagcatcgcc 240
cgcttcttct gccgaagggt ggaaagccca gctctgctgg catcagcccc agaggcagaa 300

<210> 998
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 998
aaggcctgtg ccagaggggt tggccagttg gagcctgggt cagcctcatc agcctatccc 60
catgtcctct atgcccctaa tttgcttcct catcttggag ggtttgggga gaagttggcg 120
tgccaccccc acaacccctg aggaggtgta gacccagtct gagagccgca agcactgagg 180
cagggcctga gactggacct gggtgagcgt gnngtgtgga ggntggcgag gtgcggagac 240
tgcagaccag tgnttcactg tntggagnnt gncatgctgn gtctgtaccc tngggacttg 300

<210> 999
<211> 300
<212> DNA
<213> Homo sapiens

<400> 999
caaagccact ttgaattctg gaaagttgac ctgatggaga agaaccagga aaaccaagac 60
cagcatttga ggaaagctgg ttttgtcaac aacaaaatac tgatggaaga cagaaatagt 120
gttttaggag aaacatttaa tataaattca aaccttgttc caatgagaaa aatacctgat 180
aaatatgact tatgtataat gaacgtgaat tatatttcag aattaattgt tagtaataga 240
aactcctttg gaaggaagct tgatgagctc agtgcacatg cgaaattgct ccttcatatg 300

<210> 1000
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1000
gtgcgctgtc caggaatgac gtgctgaagc aggaggtgcc agagggcttt ccctttgccc 60
atgtcctttg ggcaggatgt ggatgcagct gtcggggcag ctctggtcat gctccggaga 120
cacctcaacc agaaggaatc ttagacagca aactctttcg ccaaacgact gctgtgaatt 180
ttacctgatt aacattcctg acaccatctg tgggtcatcc tttccctgga ccgttcagtg 240
gacagctttc aagcagtgct tgttgtgagg tcccatcttg gccaagaact taccttcaga 300

<210> 1001
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1001
caaaagcagc agcctcattt ctgtcctcct ttgaatttca tattaaattg cttacataga 60
atgaaggtcg agttcactgg caggctaaca aagctccttg taatttggcc ttatatgccc 120
tatgccttct gctgtagtaa tactttgatg cttgtaattt tcttgaactt acgtcatttt 180
gtgtctctgc ttttgtcagt tctcctgact cttagttttg cctgactctg tcttcataga 240
cttgtgtgta ggcattatta tctcctgtga agtcttctct gacagttact tactccctcc 300

<210> 1002
<211> 206
<212> DNA
<213> Homo sapiens

<400> 1002
gtagtaaaaa agataagctt gtgaaatcta tcagctctca ggctaagcat tacaccaaga 60
gaatcttgca cgatccttca atcataagaa atcacatgtt agtgcagaag gtccagcgtg 120
aaatcctcta agtggccaaa tctaggagtt cttctctggc ttggttggct aaagcagtga 180
tctgtgtcac ccccagggcc atcact 206

<210> 1003
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1003
gttacctctc aatttttaact ttttttttct tttttaatta atgtttttta cccatggcaa 60
gctgtaatag ctttttttgag gggaggtagg tgcttgataa agaacagtag gtgctgctta 120
tcaacagatg aaaggagggt tctttttcag gcaaccatct catttgtgag tgaatggact 180
ttctctttaa agtgctggga ttgttagtgc cattttttatt gtaaatatca aaattgttat 240
tttttgtctt ctacctaaga attctgtctc ttaggctttc tcttcccaga tttcccaaag 300

<210> 1004
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1004
attacaggtg tggcgtgagc caccgtgccc ggccaagctc ctggccttct tattcacttg 60
acagttttga gaatctttga tttcagggat gttgagagct gctcctgtca tctggagttg 120
agtctcaccc atgggctaca gtgtacacag gagtgggacc ttctgttctt gaacttaggc 180
tgtggtgtga tcacccttt ctctgcatcc acctgacagg ctgggacttg ggctatgctc 240
tggacaaggc tggctggtgc aatgatgccc tctagaggat ggatcaggcc cagtcaccac 300

<210> 1005
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1005
gtgaaaacac ctagaccaaa gtcattctat tctgacatat tgtctttctt ggatatgact 60
ttgaaagtaa gaattgggga attactggtt atacagattc tacatttttc ttcactaata 120
gtgattccaa gaaagtttag atctttccac atggaaaccg tcatgtaaga acagaaaaac 180
tctaaggttt atctgctgtg ctgctcaact ggatccagac caggtattct tattttaaaa 240
gctatatttg atagatgtta tattctactc ttgcttcaaa acaaatcact ttcgacacag 300

<210> 1006
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1006
gttgggtgac tcttgtgtac cctttagaca ggctggcctg ccggttccac agggtacagt 60
taggacttga gtctttcttt ttctgttttg agttggtgag tgagtgatag ggtaacatgg 120
gccttcagga tgaccccttg gaactgtgcc gagttcctta aatctcagct gggatcctgg 180
acctgggagg cccctgtgag ggccagctct ggaaaaacct gggagttgat gccggaggct 240
gtggaagaac tctgctcgag ggcagggtgc cctggaacac tggtagttct ggggctggga 300

<210> 1007
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1007
gaaaggaccc atgatgtaag gatgtttgtt gtgggggtg cttgtggctc cttaactggc 60
tctggaaaga gcctacttcc catagtgaac cctgtgaggt ccaattctgt tcctcccctt 120
ggagctccaa gagaaggtca ttgtccttgt agcagcaggt gccccccaa gctgggttct 180
cactgcaggt gccagcgggc tctcagtagg tatgacctgg atgtgagtgg tgagccagga 240
ttgaggcact cagcaccttc gaccacactt cccactctcc ctgggggttc aaggcaggct 300

<210> 1008
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1008
aacacttaca gcctatattg taacttctct cctgggatat agaaagtatc agcctaacat 60
tgatgtgcaa gagtctatcc attttttgga gtctgaattc agtagaggaa tttcagacaa 120
ttatactcta gcccttataa cttatgcatt gtcatcagtg gggagtccta aagcgaagga 180
agctttgaat atgctgactt ggagagcaga acaagaaggt ggcatgcaat tctgggtgtc 240
atcagagtcc aaacttttctg actcctggca gccacgctcc ctggatattg aagttgcagc 300

<210> 1009
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1009
agtcattgag agtctgtacc aaaagctaca tgaaggccat gggaaaaccc gggtgccagt 60
ggttctagtg gggaacaagg cagatctctc tccagagaga gaggtacagg cagttgaagg 120
aaagaagctg gcagagtcct ggggtgcgac atttatggag tcatctgctc gagagaatca 180
gctgactcaa ggcatcttca ccaaagtcat ccaggagatt gcccgtgtgg agaattccta 240
tgggcaagag cgtcgctgcc atctcatgtg agcccttggg tgtggggtaa ctgccttgct 300

<210> 1010
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1010
tatacatcca gattctattc aaagtgcctt attagcatca ggtcttggat caaaacgacc 60
tagtttttca tctacaccag ttatctcacc tgctcctaac agtacaccag ctaacagtaa 120

caccaacagt aacagtagcc ttataacaag tcaggatgct gtggaaaggg ctcagcagat 180
gaagaaagac ctgcttgata agctagaaaa attagctgaa gaccttcccc ctaataccct 240
ggatgaactt atcgatgaac ttggtggccc tgagaacgtt gctgagatga ctggccgcaa 300

<210> 1011
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1011
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taaaaataca aaaattagcc aggcgtggtg gcgtgtgcct gtagtcccag ctacttgggg 120
aggctgaggc aggagaatca cttgaacccg gaggcagagg ttgcagtgag ctgagatctt 180
gccactgcac tccagcctgg gtgacagagc aagactccat ctcaaaaaaa aaaanaanan 240
gganttacnt nantttaatg gntgnttggn aggttttttg caaacaaaaa ntccttttt 300

<210> 1012
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1012
cctctgcaaa agtgaaaagg caacgaaagg caggagagga gataatcaag catggctggt 60
cccctcaatg tgtagagtag gggagcttga gctgagggta cagttggtgc ccagatgctc 120
agctgcccac ctggcttggc ctggcttcct ccacagtcca taccctacct ccaggtgctt 180
cagggtccac agccacccca gtgggtgttt gggctgaagt agatcatgtc atgtggatgg 240
gcctgtttac gtgatgtgcc atggaaggga gtggcaggtg ggcagcttgg agtgaaaagc 300

<210> 1013
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1013
ctgtgaagta tatgtaacat gagcgagcgc taggggaacg cttcaaagca gtaggcagac 60
atcattgtgg agctaaacta agcacagtgc ctatagacca gggtgctatg aacaggcgga 120
aagagtgttg acaatcagaa attgtcaatg gtaattgcaa ataggaagac gcaagggcag 180
aatggcagct gcaagcactg atttgcaatt atgccacttt cactgggaac tctgagtact 240
ccagggtggg tagctgctgc agcttgcttt cttctaatga ggattaatga ttactttgag 300

<210> 1014
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1014
cagctgtgga gctactggca gtcttgatag aacagcagtt tctaggtagt gaccagattg 60
cctggaatta gtacagtcga agcggcacgt acaggacaag aattcaagat gcttgacagt 120
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<210> 1015
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1015
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<210> 1016
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1016
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<210> 1017
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1017
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tcaactcagt tggatttctg ggatgagaat tagaggagtc ccattgaaaa actggaatga 180
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<210> 1018
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1018
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gacagaaagc caaatatcga aatctctggc cttgatttag tgacagttta ttctaatggg 240
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<210> 1019
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1019
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ccataaaggt cttcagagtg ccttggccct agacctccct tcattctttg tagagatgga 180
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<210> 1020
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1020
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tacacctaca acattacacc gttcccagcc acagttaaac ccacctcagt ttctggacga 180
catagtaagg ccagagacag tgatgaagag aatgacccag acgatgagga tgctgtcgtt 240
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<210> 1021
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1021
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gagaacaagg acatcatgga tagttaaggc aaccagatag gtgcttatcc tctaggtctc 120
catccaaaat ggagtaatga cacctacttt cgtgttttaa gatttaaacg cagtaacata 180
tgtaaagtgc agagtctgat gttcgagtcc acaacgatgt aaataatgca aaaccagtgg 240
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<210> 1022
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1022
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<211> 300
<212> DNA
<213> Homo sapiens

<400> 1023
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gcagtgcttc agctattcgt aaacttatgc ggaaagcaga actcatgggg atcagtacag 180
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<210> 1024
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1024
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cttgataaat ctgattcagt ggttggaacg gaatctgctt ttcctgtatt ggttacaagc 240
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<210> 1025
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1025
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<210> 1026
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1026
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<210> 1027
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<212> DNA
<213> Homo sapiens

<400> 1027
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gagattttaa aatgtattgc tcaaacattt atatggtgtt tactatgtgc cctgcactac 120
tctgttttat aaatgttact taatccctat gatagcgcta taaggtactt actataatta 180
tccccagttt tacagaggag gaaactgagg catggagaga ttaagtcatt tgtcaaaaat 240
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<210> 1028
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1028
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aggtacagga agcagagatc acccctgcac tgctacctac atttacctgc tagaagtaaa 180
aattagttaa gtggaaatga ttatcatata tattttctct cttccttttg aatgtacaca 240
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<210> 1029

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1029
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agttcaactg catgacctta atgtattgga gcacgtctta caggtggact taaaactcta 180
gaatttcctg agtcgttgtt attttccact gaaggtcttt ccactgtaca gcatttcagg 240
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<210> 1030
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1030
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agagcagctg aggtattgat ggaagtgtgt ttttaatgta cttcattcca atttgaatta 180
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<210> 1031
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1031
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cctctggaga gcacaacgca tggaaaggtc tggaagctct gtgtagccat tccttctgca 180
gtcatcctac ccaagtaaaa gtaaccttgg ctatgttacc accgttttgg tcacccagga 240
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<210> 1032
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1032
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atttaagtgg ccagttcaat gtcctttggc tatatttgac ctacctttaa aacctagccc 120
atttcatatc agcctcttct gtgcctgggc ttgaaatgtc taaagctgcc ttcgtgtctg 180
ggattacacc atgtaggtca gtataaagag ggcagtcact cctccatttc tcccagcgtg 240
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<210> 1033
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1033
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gtatccctaa aaccatgcat tggtctggac aggagttgtc ccatattccc ttgcagactg 120
gtcactccat gttctctgtt acagtaagga ccagccaagc ttcagctgtc ccattcctcc 180

ccctacaaca cacacacctt tcaggcaggg aggagatgag cttccagccc caagagtgga 240
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<210> 1034
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1034
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ctagaataag ggggaaagca ctttgtgaat tgcccaagtt attgcctagg gatatgcata 240
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<210> 1035
<211> 300
<212> DNA
<213> Homo sapiens

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ccaaaagcaa aaacaaagtt gcttttaggt tgttctgtgg catttctgtt gggtactaac 180
aaagaaatca cctgttaagc ctgataatga ctgtttgcaa aatttattat aagagaaaag 240
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<210> 1036
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1036
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aaaatgatat tgcctaggtt cttgttgcaa aataccacat aatgaaatcc ttcctgttgc 180
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actccattct tgaggtttgt tttttaattt ttttggagac agtctcactc tgttgcccag 300

<210> 1037
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1037
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gaaacaaggg gttgagacaa aacactctga gaaggttttc tgggaacaaa agacctccaa 240
gctgactttg cttcataact cattggctca aactgagcta tatgcccata cttagagcaa 300

<210> 1038
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1038
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aattaggcat ctttttgtgt gattatttgg taaatgtcca tatcccctac tagcctataa 180
gctccatgac ttctaggtac cctgtctgac tacgtgtatc actgtttcta ccgcctaaca 240
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<210> 1039
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1039
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cactaattct tagaatgaat atagattgaa gtcttggggt ttttggcatg atttgtgaga 240
tgaaattatg tgatagcaga aggaaggcct cctgcacttc atgtttacag tagagtccta 300

<210> 1040
<211> 134
<212> DNA
<213> Homo sapiens

<400> 1040
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actcctcaga gcatctaggc ccgtggtttt tcagctggag ctcatctgag cccctgtggg 120
gggctgttta ggac 134

<210> 1041
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1041
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gaggtgagtt gcacttggca gttatagtac agctgcctgc ctgtggctct tcttgctttg 120
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<210> 1042
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<212> DNA
<213> Homo sapiens

<400> 1042
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aatattacaa gagtttccgg ggagaaactt taggatatac tcggtttcaa ggtgtttatc 300

<210> 1043
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1043
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<210> 1044
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 1045
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1045
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<210> 1046
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1046
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<210> 1047
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1047
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<210> 1048
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(229)
<223> n = A,T,C or G

<400> 1048
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gcgccttcct ctctgcttag gctggaatga gcttgtacag gcctgtgcct cacccnttct 180
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<210> 1049
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(272)
<223> n = A,T,C or G

<400> 1049
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aagggctgat ggagctcccc gcagcatggt tcctgcctgg gtgacagagg ctcctgtggc 180
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nnagatgttg gtttggcgnt atntcttttn tt 272

<210> 1050
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1050
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<210> 1051
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 1052
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1052
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tatagttttt ctttggttct gctcatggaa acacaatgac tatcaatcta agtaagacta 180
taatatatta gaaggatggg tgatgagaag tgtgaagtgt tgcaaaggta aatccttatc 240
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<210> 1053
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1053
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tgaagtagtt ctttttggat ttcagttggc cttttagtag agcctttctc ctaaaggatt 180
aaaacgtgag actgcgggct tgagccaaaa agcagtcaga gggacaaata ctgggtttta 240
cttagaataa cccacctgcc tagtgccagc ctaccactct tgaacaaaac ttgtatgatt 300

<210> 1054
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 1054
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gaggctgagg ctgcattatc gctttaacct ggggggcgga ggttgcagtg agcctngatg 180
ggggcaataa nagcnaaact ttggctcaaa aannanaaaa taaatanncn atanaatatg 240
cnaagcccct tntcttccng nnncctctcg g 271

<210> 1055
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1055
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tgactcaatg tcatgtggtg ccctggatgg gatccaggga cgggaaaagg acacttggga 180
aaaactggtg aagttcacgc aaagtgtccg ggttagttca gcatcagaag accaatgatg 240
gtttcttggt tgtgacgaaa atgttccatg gtctgaaagg tgtcaacacc aagggaagct 300

<210> 1056
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1056
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gccaagattg tgccagcctg ggcgacaggg tgaggctctt gtctcaaaaa aaaagtccac 120
atcttcatga accctcagac tctggagttg ggtgtcggct tttttagcca gcttttgttc 180
cgtttagtga gaacctatta aagaaggaaa gtgggtaatg gagtcccagc cactcaagag 240
actggatatc ccccgagaat ggcttgggtt accagctatg gacccttgga agatgaatct 300

<210> 1057
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1057
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gtcaccacgc ccagctaatt ttttgtattt ttagtagaga cggggtttca ccgtgttagc 120
caggatggtc tcgatctcct gaccttgaat cacaagagtc ttaacaggga atgtttcagg 180
aaacaaatag gataagacaa tgccagagga aggatagaaa catgggaagt ttctatcatt 240
tcattttctg cgtttccagc atgcccttgg aaaagactcc ctttagtccc tttttcaatt 300

<210> 1058
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1058
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catttttgac aaaagggctc agtgcaggga ggtggaggcc tctgaggttt gaagggctct 120
gtgagttaga gttgtcacat gttctcctgg ttcttgaatt tgcagcaggt cctgaaaagg 180
aaggctctgc tggccccgtg ccttcctgac cttctctctc cttccctccc ctctcttttc 240
ttgccaagtt tgctttggtt tctgagcagc ccagagagga ggagggttcg tccccaggga 300

<210> 1059
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1059
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agaagaaaaa gaagcaatat ataaagaacg ttggccagat tatgtaaggg aactgcgaag 120
aaggtattct gcaagtactg tagatgttat agaaatgatg gaggatgata aagttgatct 180
gaatttgatt gttgccctca tccgatacat tgttttggaa gaagaggatg gtgcgatact 240
ggtctttctg ccaggctggg acaatatcag cactttacat gatctcttga tgtcacaagt 300

<210> 1060
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1060
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tggaaggctt cctctttgaa gctgatttgg gaaggaagcc accagctatc ccaataaggg 120
ttctctaatt gccaacatga ttctaggaat tatcattttg aagaaaagat acagtatatt 180
caaatatacc tccattgccc tggtgtctgt ggggatattt atttgcactt ttatgtcagc 240
aaagcaggtg acttcccagt ccagcttgag tgagaatgat ggattccagg catttgtgtg 300

<210> 1061
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1061
cctgtgtcca gcgtcctcgg ttcaggggaa atgttttggt gttcatgagt agtatgtccc 60
ccagtgcccc attgtgtggg cgtcctcatg gggtatccat tcttctagga agatcctggg 120
gctgtttcca gttcgaagcc attattaata aagctgcaag gaagaaatat ttttatggat 180
gtgtgttttt atatctctga taaatatatt caactggaat cattgggtgt attgggccat 240
tctcccattg ccaaaaagaa atacctggcc aggcgcagtg gctcacacct gcaatctcag 300

<210> 1062
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1062
gcatagttgg aagttaaggt tgaaaagaga gataggggaa aacaggtgga ataatattga 60
aaattggatc aagaatatag gtgtaggcgt tagccatttt atcctgggag aagggaggaa 120
atgaaataaa aacaggaata gatagacgtt ttgaggcgaa aggaatgaat ccagcatgct 180
ctgtttagtg atgtagatga gatcacctgg gaaggcatga atgggcgggc tgagtggggt 240
agtgacttca gaacagtaat aagggttgaa aagcactgct gtgtgagggg gaaggaatgt 300

<210> 1063
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1063
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ggcgcccgtc accacgccca gctaattttt tgtatttta gtagagacgg ggtttcaccg 120
tgttagccag gatggtctcg atctcctgac cttgaatcac aagagtctta acagggaatg 180
tttcaggaaa caaataggat aagacaatgc cagaggaagg atagaaacat gggaagtttc 240
tatcatttca ttttctgcgt ttccagcatg cccttggaaa agactccctt tagtcccttt 300

<210> 1064
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1064
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tcaattcagt tgccaaatag agcagtgggc aatgttaacg gaaacaactg caattggcgc 120
agtatggagt gcctatcgca ctaggaaatc tgagggtcac aaaagaaagg agatgtgagg 180
ataagaaact ttgtttttcc cttgttggga actctttagg cctcggtttc tggtgacagc 240
cccagggatc atcaggcccg gaggaaatgt gactattggg gtggagcttc tggaacactg 300

<210> 1065
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1065
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ttctgcagat catacccctа gcccaggagc ctcccgcaga cttcagagcc tgctgtcctc 120

accagcgccc ccacatggcc ggtctgagag caagtggaga gtcacagtca cagtcacagt 180
gcccaacgcc tccacctggt cctgacgggt ccccagggga caccatataa ccttagtcat 240
gtctcattgc ccggaggaat cttcccccag ataggaataa ccttgtaaaa aagatttgtg 300

<210> 1066
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1066
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gctaaaggaa catctgggca atcctacttg tgtactcatt ggattcattc agtgaccttg 120
ttattatcct tctagctaaa tgctctgggt cttaattcac gactccaagg ttgctcttga 180
ttttaaggaa cattttggca gaatagagag aagttgagca aatattaaca gatgtccaaa 240
ggggcagtgt gatttattat gtcaagagaa tcagttttat gtcgagggaa gaattttggt 300

<210> 1067
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1067
aagaaaccag tagctagctg ctatttatat ggtgaggggg tgctgcctgg taacagaata 60
gctccacacc acagcttgag attttgttta gtttcactgt gtgagctttc ataaagtctg 120
ttgccattcc atctctgtgt taacacttca tatttttatg aaattcagat aatttgtgag 180
aggctggcat ggatctaagg atttattatt tttattctag tccatcagtt cagtcgcagt 240
ttttatacta ggactttagg atgtacataa atgtgtgact gtttgtcttg attaaaagtg 300

<210> 1068
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1068
aaaacatcag ggaagctgtt tgatagcagt gatgatgacg aatctgattc tgaagatgac 60
agtaataggt tcaaaattaa acctcagttt gagggcagag ctggacagaa ggttagtgaa 120
gactgaaaat aattagactt gcagcatgtc cttatttttt gacatagtcc ttaaatctgg 180
gtaaatgcag gcagacctta acctacatta tagcatcggg gtgtttattt ggagagtgag 240
tcttctgtga tcctctctga ttggttcata agtagatgga ggtaggcaaa catcttaatg 300

<210> 1069
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1069
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acaccatcag atctggttct ctccctgggg cccaaggatg ctcttctttt tcatctttta 120
ttttgatcat ggaggtgttt tcacagagtt tatccccagt agtaaattac attccaattc 180
tgtgagtcag aacaacgttt taacatgcac accaacgtcc gggttgctgt tttgctacca 240
gttttgcctg gggtgcaggt atttttggag atgggtctaa aacatctcaa aaccacatga 300

<210> 1070
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1070
gtttcactgt gcggtgcagt gcggcggcag ctcgtgagga ggacccgtac attgacacca 60
ccctgaaggc ttgcccacct gtcagtatgg atgtctgtgc tttaagaata cagcttttca 120
taggcttgaa agccatctgt cactttaaaa accacatcat acttttgact aaagcagaac 180
ctgaagccat tccagagaga agacagtcac ccaagaggct tctgtaagca tccccttgcc 240
ccaggcattc ctgccagttt ctggaatgag ttgtaactgg tatattttgt gtttatcttt 300

<210> 1071
<211> 198
<212> DNA
<213> Homo sapiens

<400> 1071
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gaatgttagg tctgtttttg ttgtcttctg cctatgtctc ttgacttgca gtttcttttg 120
tttcaaatca ctctgccctc gtatatactt tggttagact acttttggtg aagcactctc 180
caatagaaga acataatg 198

<210> 1072
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1072
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tatggataga agcatggtct ggggttcctt tgctgaccag ggtgtgtgct ttgtccaagt 120
tactgacctt cccaaacctc atcaatgcac ataaaaagag cacttgcaaa caatgaatct 180
agacatggac cttcacaaag aaataactca aaatggatcc caggcctaaa tgaaaaatga 240
aaaactataa aactcctaga agataacata aaagaagatc tagatgacct agggtttggc 300

<210> 1073
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1073
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tatgcacttt cctgtttcgt tctcaccaca gtgatgatct cggtcgtcca cgaacgagta 120
cctcctaagg aggtgcagcc tccactaccg gacacatttt ttgaccattt taaccgggtg 180
cagtgggcct tttctatttg tgaaattaat ggcatgatcc ttgtaggact ctggttaatt 240
cagtggctgc tcttaaaata caacatgccc agggattgtc tatttccctc ctctcaacaa 300

<210> 1074
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1074
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aaagatacca tctgtgaact gtgtggggag tcacatccat acccggtgac ctatcacatg 120
agacaagctc acccaggttg tggccgatat gctggtggac aaggttacaa tagcattggg 180
catttttgtg gaggatgggc tggtaactgt ggtgatggtg gcataggagg aagcacttgg 240
tatctggtat gtgatcgctg tagagaaaaa tacctccgcg aaaaacaggc tgctgcaagg 300

<210> 1075
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1075
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attgtaactt tataggctcc cctattcttt ttgctttttt ttccccctga aattactgag 120
caacaagatt cctgttctct ccccttcaag gctttgtttt ctggaacttg acattctcaa 180
atcattgcca gttatttta gtacgtgatt agtctccctt cctcaggtat gttttcccca 240
atttggattg aatctactgt ttgcatcttg tttcccatcc caccttcata cagattgtat 300

<210> 1076
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1076
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gaaaattttt tgctgcttct ggttcccaga aaagggagcc attttaacag acacatctgt 120
caaaagaaat gacttgtcga ttatttctgg ctaatttttc tttatagccg agtttctcac 180
acctggcgag ctgtggcatg cttttaaaca gagttcattt ccagtaccct ccatcagtgc 240
accctgcttt aagaaaatga acctatgcaa atagacatcc acagcgtcgg taaattaagg 300

<210> 1077
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1077
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taactgcagt cctgcatttt atccatggaa tgacagaccc tgtattaatg tctctcagtg 120
cctctcatgt gtcatctttt cgtagacatt ttcctgtgct gtttgtctct gcttgcctgt 180
ttattcttcc tgtcttactc agttatgttc tttggcatca ctatgcacta aatacatggt 240
tgtttgcagt tacagcattt tgtgtggaac tgtgcttaaa agtaattgtt tctctcactg 300

<210> 1078
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1078
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aagtcacaag gtcagggaga ggagaagaag cgtgctggat gagtcacact gtaggactca 120
agccagtagg ttcttgttag cccggctact gacctggagc caggcactga tagcaacgtg 180
tcctctgagg gaaggcaaat gggaaatcca agcaggcact gggatctgcc tgtgacactc 240
ttgtggggcc tggtccctcg acctaagtga gcttgggcca ctcagagcca ccccaggtgc 300

<210> 1079
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1079
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agccatatca ttagtgaccc tcggcagaaa gaaaagaata aagcgttggc ttctgatttt 120
cctcacattt ctgcttgtgc acatgagaca ggcaaatgta cactggggac caccatgttc 180
acgtgacatc aagaggaagc ggaaaccagt ggccacagca tctttgtcta gccccagtgc 240

aggtggtaga aggacagccc ccctgccctg agacaacact cggaggcctg tattccagcg 300

<210> 1080
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1080
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aataactatt catgatattg ttaataactt gttataggat tgtattccca attacagtct 120
ctaagattgt aattgatatt atctgagagg tagtgtgaca actttctttt gttgttacat 180
taagccgaaa acataatact aatagacaac taacagtttg cttatcaggc acatcaacta 240
aggcacctcc ccccatgcta agtttctcct ggatataatg aagttgattg tttcccagtt 300

<210> 1081
<211> 241
<212> DNA
<213> Homo sapiens

<400> 1081
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cagttgctgc ttttacgttt ccacgcgtga tcttgaccct gctagcctga agtgtatggt 120
ttctcttagc cagttctaat ttttgttcag gtggaagatg gatgcctgaa gtgtagactg 180
ctgctagctg aataccatct gggagcataa aggtgacctg aaggtagggt gatatgtctt 240
a 241

<210> 1082
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1082
aggatgttgc tgctgtgggc cgcaagggtc ttggtagctt cctctagggc aggcttgtgt 60
tcctgattgg ggttgggatg ggtgggggca tcccctgtgg cctcagcaat ccagccctgc 120
gcatctgggt cccattacac agacgtagac attgaggtct agttagaagg acttgccagg 180
agtcctgtaa tagagcttgg cacttgggtc tcttgactct cagggactgg gtgtgaggga 240
agtgggctcc ttttgctccc tacctgcagt gcctttgagg ggatgagggt cttccatcag 300

<210> 1083
<211> 240
<212> DNA
<213> Homo sapiens

<400> 1083
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actgcccgcc ttcacgctgt cccacctgga gagccaccgt gacggccagc gcagcagcat 120
catggacgtg cggtcccggg tggattctaa gaccctgacc cgtaacacga ggatcattgc 180
agaggccctg actcgagtca tctacaacct gacagagaag gggacactcc cagacatgcc 240

<210> 1084
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1084
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caggctgcca aatcctgtgt atgcctgtac ccaaatggaa ggagtgcctt tcctcaattc 120
ataaaaaaga caaagacagt ggtaggatca gctattatgt cagtacatga aaggaacccc 180
ctatctcaat caaaatggta aaggaagctt gtctcaaata acagcagaga aactcagttt 240
accagactat aaaagttctt tggtcaagaa gataaagagc tctccagaat aagaatacct 300

<210> 1085
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1085
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ttcgcgagcg gctgctgagc gtgcagcagg atttcacctc cgggctgaag actttaagtg 120
acaagtcaag agaagcaaaa gtgaaaagca aacccaggac tgttccattt ttgccaaagt 180
actctgctgg attagaatta cttagcaggt atgaggatac atgggctgca cttcacagaa 240
gagccaaaga ctgtgcaagt gctggagagc tggtggatag cgaggtggtc atgctttctg 300

<210> 1086
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1086
aagagagaca gggagaatcc gaggtaaaac tgttaggaaa acttaggagt ccagatgctg 60
tccagttata tgctaccctg tacaggttga taggttgcaa atgctttctg tccagtgtat 120
cgctttgtag ctcactaagc agttttgtat ccaactttgt gcttttattt cagtgttttt 180
ctttttcttt ctttcttttt tttttttt 208

<210> 1087
<211> 205
<212> DNA
<213> Homo sapiens

<400> 1087
tagggtctta gtactggttt gggcataatt atactcagtg tttgggcctc tgctaaaatt 60
ctaagacgat aagaatatca gtttaagttc tgttacagtt gttttcatga agcttgtaag 120
attgatattt aagtggacaa agtgggaagt agtcagtttt cagggctaca ggggtcatca 180
ctttgtgctc agagtacagc tggca 205

<210> 1088
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1088
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tcctggagga ctgagcacct gtggggaagg gaggtgggct gagaggtaga gggtggatgc 120
ccagggcacc caaacctccc ttccctttcg tgtcgaaggg agtgaggagt gaattaagga 180
agagagcaag tgagtgtgtg tccctggagg ggttgggcgc cctctggtgt taccacctcg 240
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<210> 1089
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1089
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tcagaagcca gaagttcatg tcatgattac caggaagttc aggccagaat gaatccctag 120
agaagccagg ccaagcctgg ataattgcag ctggatgacc ctggcccgaa agtcacagtt 180
cagttgcctt attcctagtt caggcttact atctagaacc tcatgctagc ttaggttgca 240
tgtttacatt gctgcagtgt ctttactgga agcttagttg gatcgaaatg gacaccgaga 300

<210> 1090
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1090
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agaatgagca tgatgggaaa agggagaaat tgtatgctgc agatagaggg aggaaaggcc 120
aactaggtcc aacaagtaaa aagaggacta gtctcaaact attaaatata tgatttacct 180
agcaaaagct ttaagtcaca gctgaattac actggggaaa caattacaga ctttacaatg 240
gaaagaagca tcttcaatgt tggctgcaat cactgacagc aggaatactc acttttgaaa 300

<210> 1091
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1091
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ccgagtcaga tctttgtcca gtgttctgaa gatcaaatgc cgtgcccttt tgcaatataa 120
caccagctgc ttttagtcca cagcctctga catgcgattt gaagacacgt tttatggagc 180
agacattatc caaggggaga gaaagagaca aagagtgctg agctccaggt ttaagaatga 240
atatgtggcc gaccctgtat accgcacttt tttgaagagc tctttccaga agaagtgcca 300

<210> 1092
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1092
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agttatcata catgcgataa gtcccacacc agcacatgaa aagattagaa gaacaagaga 180
agggaagaaa cctactgacc tgtttcaggg tgggatgctt cataaagagg ataacagtta 240
agccactaac agtaatgcct ctaatcttga atctgttacc tactagtttt gtgtccctgg 300

<210> 1093
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1093
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aagccaagtc ctaacagctg cagcgggcat tgattggaac actgactcct aaaaatttta 120
tgcgtatatt ctctcattta tttccataga aggtgaggtt aaattactcg ctgaagttcg 180
cacatttagt aaatggagat ctgggatgca aatccgctat gcctgaccgt aaagcctagt 240
tttacccttt acattttgcc tattcagctc tctctactcc ttggttttgc tgataaagag 300

<210> 1094

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1094
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tgggagtgtt tgtccgtggg ccctcaggtg ccgctgtgac ctcttccccc tagaagctga 120
cacactgagt cctcttagcg ctctcctgtg atggggaagc cgggagagaa tgggccctga 180
aaatcagaac tagaacatag aatcctctct atcttcttca acagaacccg caaagctatc 240
aagaaaatgc atcccaccat attgcacatc tgaaaattgt ctttcttgct ttctgatagt 300

<210> 1095
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1095
ggtgctcgga gtgtggtact tctcctagtt gcagtcaggc ttcatacgct attgtcctgc 60
ccgtaagttc ccgttttgtg tgtggtgagt ggaaactcca tgttcttcgt tggagacctc 120
tggtcctccc ttcccttctt tgtgccgtcg tctctgcggc cagccctaat ctccttctcg 180
tggcttctcc gtctctgacc ccaaataggc cttaagggcg tgggagaaat gagtttctgg 240
agctggaaaa gccactgcct tctgcacggg cctgagaagc ccttggctgg tgtaaatgat 300

<210> 1096
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1096
atttagtgag atttgtattc taggaagtgt gtgccgtcac ttgttcattt acaactgcaa 60
agattgtatg tctcctatgt tttcctttca tgccaaagaa actcaccctt tttaaaagcc 120
agcaggttgc acaaaccaaa aacaaaatat tttgcccctt aaataggcat tttaagaagt 180
tttatttcct ggtacttaaa tattgtgtag agggaaagct agttgtaata atttgtaaaa 240
atgcgtgtat ttttaggaat gcgctatttc cagtaaggga agtattgaca tttttaagga 300

<210> 1097
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1097
cccagaatga acatgcagcc cccccaagta atcctgtgat cccagggttt caagatagac 60
ttttgagttt ttcacagtct gtcttaactc agcaagataa cttgggactt cagaaacagt 120
tggatctaca aagagaagtt ctgcattata gccagaaagc ccaggaaaaa ttgcttgtac 180
agagacaaac agcattgcag cagcagatac agaaacatga agagactttg aaggatttct 240
ttaaagacag tcagataagt aagcccacag ttgaaaatga tttaaaaacc cagaagatgg 300

<210> 1098
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1098
gtactttgag tgtttggggg ttcaacacac acatgcaatt ttgcttaaca aaagtatttt 60
ataatacagt ttcatacaga attaccttaa aagggagtct tatgttttca actacagata 120
gttgtaaggg atcatacaga agatattgat gatagttgaa atattcttag aaggggtgtg 180

tatgtctagc tgtgtctacc atgtgtatgt attcttgaca agcagtataa aatacctgtg 240
atttttcttt acattaggga taatgcataa ggaattaatc ttcatatata ttatcatccc 300

<210> 1099
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1099
gcaacacaaa ctgaatttcc ttattgctga tagctgcctg tagaggggtg gtcaaagaga 60
ctctacctgg aaaactctta cagaaaaaca ttattgaata ccctcttagt ttcagagttt 120
ccagtctcat ttctccttaa atctattcac caaaacacca ccagtttccc ctaccacaaa 180
cacacacata agtacacact cacctatttt caccttctct tccacttcca cctttgtgtt 240
gaacctgatt aaactctgat acttttaact ccaaaatatg ctatgctctt attaacaact 300

<210> 1100
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1100
gtctcgagtt tgttgttttt tgtaatccgt tttagagtga attaaactca gacatccctg 60
gattgtatgc tgtctgtaga atgttgattt tcaggcacgg ggatgtagct gtagaatgtg 120
gcttgttcat tcttcctgat aagaaattga tctcctgaat ggattggcca tttggtaatt 180
tcttagtgaa aggctgactc ttgaatatgg ctgttataat ataaattctt accaacataa 240
agtaagggct tatttggggc ttggtaaaac tgtcatgcct tgaagtatat atagcttata 300

<210> 1101
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1101
attgaatttt ctgataattg aagcttatta attgtctaaa attatcttaa gatattctct 60
gatgtacatc attttaaaat gagttgcaca catttctatt ctgtttcaac atattcaata 120
taatcttcgc tcttgttcat ctgttggtat tcattatata attcagacgt ggtctcaggt 180
ctggagacat gtgaagttat tgctcctaca ctgagtgttt ccatgtcatt atgccttaat 240
ccttatttag acacagctat gataccctct ttacaacata aaggataagc agaaggatgt 300

<210> 1102
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1102
cacaagaaat gaaattaaaa aataaatcaa gcagccatat gctcaacttc attggaccac 60
tgcaatcctg gtgacatatt gagggctgaa gaaacccatt gcatatagtc ctcctgtcac 120
tggagatatg tgtggtaaga aagagaaatg gccacgttgc aatagcagtg ggaagcaaat 180
gcagaaagca cccaggaaag gggaagatct aggtgacaga ggccatctag tcttttggat 240
tcatctggtt ctggcacaca gagaatggag cttttgtggc aataatttct ctactgatgt 300

<210> 1103
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1103
aggtgttgaa attacagaag ggaccatttc tggcaacaca gcagaccaga tatcctataa 60
aagtcttcca ttacagaaca cctacacatc aggagctcaa aaacagatat attctttaaa 120
tgtctagcca acattttgga aaagtgtggg aaatccctca gggccaaaac cagagggagt 180
tggacaccag agtgataagc agacactgaa ggcaaggcca acctcagggc ttggctcaat 240
attctagaac tttacccttg ttctcaagtc tccgtgtgga caggggatga gggttacctg 300

<210> 1104
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1104
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tgcctggtac accccagagg tatgcatgtg cctaggagac ggttagttac tctgagttat 120
gaggagctgg ggtgatgatt ttaagtattc ttgttctggg aatggagggt atattctcca 180
ttttgtgaaa ttcttggact ataggttaca ttccatttta agctatcacc cctcagcatc 240
accaccatac ttgactaagg tgggactgtt tgcatagggt aattttggga tgggggaaag 300

<210> 1105
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1105
tgggttgact cgctacatca gctcagactt ggctgtgggt aacccccttgt gaattgttgt 60
ttccacatgt gtgttgcttc atttttggct ctccgttgtc cccatcacct tcccgtctca 120
ccatagggtt tagggtattt tgctgtgtgt tcaaatagaa catgaaagaa gccttttaaa 180
agtatttctg tgcctattca cagtccccta aattttatta cagtttttac gttggtttaa 240
agagtatttt ggtttgattt atatggaaaa cttctttttt aacattatag taacatagat 300

<210> 1106
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1106
ggctgataga gtgctagcca ccaccctctg tccctcccac agcccaggtg tcaaagtctt 60
ttctcagctc ccaagagtcg aatgaaggaa gagcctgtct ccacctttca gagaggactg 120
aggcctgtcc ccagccccac ccagggtctc ctgggaagac cagcccttcc aactaccaac 180
ccgttccttt tcccagtctg agccacagga agagcctagc ggggaatgtc atgaatcgac 240
ctccatcctg agctctccag gcctgggaca atggaaagtg gataggggggc tgtcttccca 300

<210> 1107
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1107
gagccggcgt ggacccaggg ctgagctgtg accacgaggg ccatcccgac gagccgccat 60
ggacccaggg ctgagctgtg accatgaggg ctatcccgac gagctgccgt ggacccaggg 120
ctgagccgtg accatgaggg ccatcccgaa actgtgattg ttttctgatg aagaaaccaa 180
ggctttgtga ctaactcaac ccctcaagaa ggacaaaact agcatcagag ccccttgctt 240
ctgggtctgg caagaatgcc tcttgtttgc tgagaggtcc acagatttac ccggctcaag 300

<210> 1108

<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1108
caaagaccct tccccagagg cctacccccc atatgtcctc agagaggctg agtgtcccct 60
ccaggcagtc atgggccctg aggcccctcc tgcctggccc tgctccccag tggggaggtg 120
actgcgtttc ccagagtgtg agccgctctc ctccccctaa aaagctgact cactgtgagt 180
gaccttgggc aagntnccaa ancttnttga gccttagntt ncncatctgg aaaaaatggg 240
gccanctctt gccannagta cagggctgcc natgcccntn tctctncatg cnccatcca 299

<210> 1109
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1109
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agacctctt ggccctgccc ccaccatgca cccagcagcc gggagtgcag cggtcagcct 120
ggcagtgagt gaaacccagg ccttcagccc tccaaagcct ggggccaccc cctgtagcag 180
gcgatgctag aataaggagg agagccagag ctgaggctcc ttgccccttg gccccttcag 240
gggccatggg atctctgtct cccacacccc tgtcacggnc cgcctgganc ancccatagg 300

<210> 1110
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1110
ccaagttccg cggccaccag aagagcaagg ggaactcgta cgacgtagag gtggtgctgc 60
agcacgtgga cacgggaaac tcttaccttt gtgggtactt gaagattaaa ggccttactg 120
aggagtatcc aacccttaca accttcttcg aaggagaaat aatcagcaaa aaacaccctt 180
tcttaactcg caagtgggat gcagatgaag atgttgatcg gaaacactgg ggcaagtttc 240
tggctttta tcagtatgca aaatcattta actcagatga ctttgattat gaagagctga 300

<210> 1111
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1111
attctcttag tgatgggctg gaggaagtcc aaaatgcaga catgaaagct tacatggaat 60
tagtcaacta tatgctgttg actgcagagc tgtatcttca gaggagtgat gaagctacag 120
taggggagat cactcatgct aggtatggat ctccttaccc ttggcctctg aatcatattt 180
atggcctatc agaggcaggg ggaagtcaaa cgtaagatta aagctattgg atggggaaag 240
aagactctgg accaagtctt agaggatgta gaccagcgct gtctagctct ctctcagaga 300

<210> 1112
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1112
gactagcaca tggcaaggtc aggattcaag ctaggtagtc agtatctcag ccaggctgtc 60
tcctggctcc ctgaacatta tggtgctgac cacaaacttt cctgtccact tatacaaact 120
tctagtgagt gtgtgtgatt actagcttca tgaatacctg acccctccac tctgaaggag 180
gaacaggcct gtctggatca cttctctgtc cctaactgag cccatctcat ttagggaaac 240
tacagagcac tgttgctttt tttttagatg gagtctcgtt ctgtcgtcca ggctggagtg 300

<210> 1113
<211> 282
<212> DNA
<213> Homo sapiens

<400> 1113
acctgtttca cctcccaaat ttatatattc aaagtattta cttaaaattc agaagccaga 60
agttcatgtc atgattacca ggaagttcag gccagaatga atccctagag aagccaggcc 120
aagcctggat aattgcagct ggatgaccct ggcccgaatg tcacagttca gttgccttat 180
tcctagttca ggcttactat ctagaacctc atgctagctt aggttgcatg tttacattgc 240
tgcatgagtc tttactggaa gcttagttgg atcgaaatgg ac 282

<210> 1114
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1114
ttggtgtgta ataaaaactt tagaaagggt ctattgaact ttggacaggc aagctccatg 60
agctctccct cactctttga ggcaggttaa agggtacggc catgaccacc accttaatcc 120
ttcagggact atttacaaaa gattgaaaaa tgtgcccagg gcccgtacct gcccctctgt 180
ggaactagcc caactcaagt gggctggcag gcaagcctgg ctttcatggg gacagaagag 240
agagtttgcg gggagcttgg cattttcaa cacatgcttt ttggcttctc ctactgaatt 300

<210> 1115
<211> 150
<212> DNA
<213> Homo sapiens

<400> 1115
gaagatgagg aagccagcac tggatctcat ctcaagctca tagtagatgc tttcctacag 60
cagttaccca actgtgtcaa ccgagatctg atagacaagg cagcaatgga tttttgcatg 120
aacatgaaca caaaagcaaa caggaagaag 150

<210> 1116
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1116
gtaccacatc tagatacgag gtcagagttc agatgcctaa atattgtagc ttgtgttttg 60
tccactgttg ggggaagagt gaagagattt gacataccat aatgttgatt agcttgtgat 120
ggtttggcgg cagcttaggc cagagcataa agtaaaaagg aaaagtgttc acagacaatg 180
aaaactggga ccaagtggtg aatactcaag gcacacagac caggcaagga tcccagtggc 240

cgtggatgag tctcaggctg gctctgggcc agtggaacac acctcagtgt gggtgaaggc 300

<210> 1117
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1117
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ctaggcatcc agcctcagcc atgggaccca tggcctctct ttagtgaatg atgcgccaca 120
ccagctgtat caccccccagg tgtacctgcc atccttccat tgcgcaaatg tggaaactga 180
gcctgggggt aggggtgagc ccttttgagc agcaggtggt gtctggggcc tgggacctgt 240
aaacaaatcc tcattactcc cagcctggtc tctgtgcttg atgtttagta ctagaagtca 300

<210> 1118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1118
ctcaccaaga acacaaataa acagttgatg aatccatcac atcagtgatg aatccagaat 60
gtgtccatca ttttcgtaag tcttagtatg cagagaatct cagatagcaa agcagaaagg 120
atgatgtcac agacgccttg ggtacccagc acctggatgc agctgtttgt acacacatac 180
tttctgatat tatgttgaca gtgacttaca ccacttcaac ctcaggcagg attctatcag 240
tttctttact acagattgat ttgtttcttt aataattatt gtaattactg tcagtaaaaa 300

<210> 1119
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1119
gatagctatc tgacttctca actatgtaat aagcagatgt tgtaaatcct atgctgtagt 60
tcatgaatct atatgacatg tggggtcggg aacatagtac cctaccataa gtcaggttat 120
tcctactatt ctgcaacatg taaataacac tttgaacaga gcaagtggta aagattgctt 180
aatttttgca tgactatttt gataaatatg ttgagaagga ccagctcaaa ggaaaacctc 240
ttggtaactt ggcataagtt aaatgtttcc caagaaagtg cactcttccc aaataaagct 300

<210> 1120
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1120
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aactggcaat ctttccaaag tggcagccaa ggccccactc cctgtcctac tcaatctctg 120
cagggaaaaa ctgtgggata ggatagcagc cagctgggga cacacagagg aacattcaac 180
aggaaggtcc cgcctaggga aaaggccaca gagcccaggc ctcttgccga ttcagggatc 240
cttggatata agtggattag aggagaggga ggaaagctat catttcagtg gtctccaaat 300

<210> 1121
<211> 290
<212> DNA
<213> Homo sapiens

<400> 1121

gcaagactga gggaggaggg aggtttgagc agctgtaatg ggtgagggaa gagagtgggt 60
gggagaaagg agatttgaga agcatcgcta tgatccatga atctttgtag tcaagtttaa 120
gaaattcaag taaacagagt tattgtgaaa ttattatttt ttggttgcta ttctctctct 180
cctctcccac tctgtctctt ttttttttctt tgagatggga tcttgctctg tcgcctaggc 240
tggagtgacg cagtggtgag atcatagctc actgcagcca attttttttt 290

<210> 1122
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1122
agggagggag ggggcaggac agtgtggaat ctctagggtg tatgggtagg tagggggcac 60
agttagttct aagtgggctt ttatgctaaa agcctctggg gatatctgtt ttgaaaataa 120
agataggtgt cccctccttg ctgtcatcta gcccagacac tctgcttgct ctctggctgt 180
ctgctccctg ggaaggcttt aggaggacca cccaggacag gatgaccatg ctgccatctg 240
ctctggagct gggtctcagt gcagagggac agtgactgtg gatggttgca gtctctggtg 300

<210> 1123
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1123
cctccaccaa ccccccagtc gtctgggatg gacaaccatt tggaggagct gagcctgccg 60
gtgcctacat cagacaggac cacatctagg acctcctcct cctcctcctc cgactcctcc 120
accaacctgc atagcccaaa tccaagtgat gatggagcag atacgccctt ggcacagtcg 180
gatgaagagg aggaaagggg tgatggagng gcagagcctg gagcctgcag ctagcagtgg 240
gcccctgcct acagactgac cacgctggct attctccaca tgagaccaca ggcccagcca 300

<210> 1124
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1124
gggtgacttc ctgtgacctc caaaggaagt ctcagctctg ctagaatggg accaaagccc 60
agctccacct tgaacttgtg tcatagcctt gcttcttgtt ccctctcctt agccgggcag 120
atgccttgtc ctttgataaa ggcttcctgt cacctcctga gggctcttgt gctttttgca 180
ggtggatgcc attaccttta ccgctgtgcc tcccgcaatt gctctgttca cacgctgtcc 240
gccatctgcc tgcaagggcc caggcagggt cttactcatc attatgtcat tgcttcaata 300

<210> 1125
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 1125
ggacagtggg cctggcccgt ggagctgcca cgcaggtgcc tgagggccag gtgccacgca 60
ggtgtctgag gaccaggtgc cacgcaggtg gtgggggtac agacaagatg ctgggatgtc 120
ccctgcccca tggtcaaggg tgttctgcct gccntnttcc anncctgann nacntacatg 180
gaatccctan anttnttnat tttttntgna nanantgngg ngttttattt ttttnntnta 240
nnngnnttnt taatgntntn nantattatc ntntatnnct ttttttt 287

<210> 1126
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1126
ccctgccctg ggtctggccg gcggaagctc tgtccaaggt ccacacacct ccaggtttac 60
gccaacatcc ttgtgccctc cccaccttct cttccaacgc attaggtgca ttgtttaatt 120
gaaatccaac caacaattgt gtgtcaaggc tggtttggtg cagtggctgg gcaaattaat 180
tttgggccag gatgggggtg ggttgcagtg agggtaggga aaatgtcagg agtaggaagg 240
ttcgggggtt aagggaaggg aaggaagacc agaactggcc atcctctttt ataatccatt 300

<210> 1127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1127
tataggcatg agccattgca cccagcccag gtttttaata agatgaaaaa aatgctgtta 60
taaaaagtga aaagaggcca ggtgtggtgg ctcctgcctg tggtcccagc tactccggag 120
gctgaggcag gaggatcatt tgagcccagg ctgcagtgca gtggcacgat cacggctttc 180
tgcagccttg acttcctggg cggcagacgg agaccctgtt ttttaaagaa aagaacagag 240
tacaaaattg tatatgctat ataatcacaa ctataataaa tgatctgtag ataaaatgag 300

<210> 1128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1128
tgtggcccca agagtgggag gagtgggctg tcagtaggcc accaataaat atctgtgttt 60
tggctgaccc ccatatgcta ggatactgga gatgaggaac tggagaaggt gcttaaagag 120
cacatctgtc tggtagagga cacagagctg tccttcaagc atttgaacga tgttctcatt 180
tccctggaat cttctcctct ccaggctcac atctctagct ccttcaatga ttcctcttgc 240
gacatcattt tagttctctt ccccaaccta gtctttttgc ttttaatgaa tgatcactga 300

<210> 1129
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1129
catccctgac agttggataa taggttccag gaagttcagt ggaaaattaa aacaaagcaa 60
catttatagc tgattgaact tgaaaagcca ttttggtgtt gaatggcaaa tatgtggact 120
tcagcattcc tggagcctga tgcatcccgc tggatggccc tgttcctgtg tacatgatgg 180
cctggggact cagcagtgtg cagggtactc tcctttagag ggtgctttga ggaaagaagt 240
ttgctgccac ttacagaagt ccccttccca tacagtgata taacacaagt accccatgtc 300

<210> 1130

<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

<400> 1130
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aaaatgggcc tagaatgtgt agatattctc agcgatctct ttcgaagggg actcatacat 120
gtcttagcaa ctattttagn ccatctcngt gacatggnct taattcacnc gtgtntaaag 180
tgannacntc ttggaanatg gatnctanan gannatangg cngctttcta ctntnnnant 240
nttnnngcta 250

<210> 1131
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1131
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agaatgctgt gagggttacc atgttgaatt tgtgcagaag ctaaaagcac cagatgtgcc 120
agagatgcaa tttgtgatta tgtttgcact ggattgtgat ttgaacagga cacttataac 180
taatgagttc tttcttttga ggtggggaga gggttgtaaa tcaagacttc ataccctatc 240
cttgtagctc ggaaattgag gtgtagctta ggctgatgcg gagagctgca gacagctgga 300

<210> 1132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1132
gttggagaaa tccaaagctg accaaaacat ggtccccacc ttttggagct tacagtctgt 60
tctggggaac agagattcag ccaaagtcaa gaaacactgg atgccagcta gattatctgt 120
tctgtgcttt ggtgtctata agtacatatg tggatatggg ttcattttat ccctaaactt 180
agtaccaaac cagcatttaa tatctaatta taaatctaat ttggcctaaa ctttattatt 240
gcacactgcc tgaacaaaac ctatttgtct ctatgtaaat tttttcctca tggaacaagg 300

<210> 1133
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1133
ctccagcctg gggcgacaga gcaagactct gtctcaaata gataaataaa taaaaataca 60
aaaaaaagaa actcaaggta cagtggtggg agtcaaaaaa gcataaggag aaaaccaaga 120
ctgaaaactg ttattgagct tagtctgtgc ctagttcagt ccctagcatt ttacaagttt 180
tctctgagtt aacaaacttg tgggggaaac tgaggctttc agatgttgaa taacttgtgt 240
aagttgtaga gcaggttctt ttccatagtt ccgcattttt tacctgcaat acagcaatgc 300

<210> 1134
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1134
gtgctgtctt gcgcttgcgc gtggcctccc aaacccctag ggatacctgg ggccagctgg 60
ggcagtctct gtctcgacct ccttttccat ttctggctag tttaccgatc tgtttcatcc 120
ttaggccagc tgatgacctt ggccctctcc tcccgagatc cctgcagctt ccaacagtga 180
ggccctccag cagtgaggct gctgattttc atggcctggc tggagctggg ggcccaggcc 240
aggagcagcc ccaggcaaaa atcacctccc gctgctcttc cctgccactc agtacttttt 300

<210> 1135
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1135
gtaaaacatg taatttggac atgcaagaca atgctgctgc caactaacat tgcattgatt 60
cattaagatg ttatttttga ggtgttcctg gtctttcact gacaattcca acattcttta 120
cttacagtgg accaatggat aagtctatgc atctataata aactataaaa aatgggagta 180
cccatggtta ggatatagct atgcctttat ggttaagatt agaatatatg atccataaaa 240
atttaaagtg agaggcatgg ttagtgtgtg atacaataaa aagtaattgt ttggtagttg 300

<210> 1136
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1136
gtctcgcttt gtgacgtagc ctggtcttga gcgatccttt tgccttggcc ttgccaaagt 60
gctgggattg gaggcatgag ccactgcacc cacccctgtt ttttatttaa gtaaaccatt 120
ataataactc atttataaaa aggttacttc aagagggctt tcaacttaag aattattttc 180
attttgaaca tgaaaagtta aatagtaact aagaaactga gaactctgac agtgacctct 240
aataggtaac tttaggcaaa agtagacaag tttgtgggta ttttgttgtt catgttaaaa 300

<210> 1137
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1137
gtttatgaag aagctgtttc gtgtgtacag ttgctgctgt aatttagcca gcagtgccct 60
gccctgccct gcagtgtctg cacagctccc actgcttctc tttgctgttg ggcacgtgag 120
gcatgacttg gaggggggcc tggtgcctgg ggacctgctg aagagaatgc tcaccaccag 180
ctctctgttt ccctttctgc tttggtaatc aacacgtgtt tgcctgcagt ggccgggacc 240
gtgactgttt ctgcccttgt gcctagttaa gagccttcaa aagcataatg aacacttttg 300

<210> 1138
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1138
ctgagatcgg ccactgcact ccagcctggg tgacagagtg agactccgtg tcaaaaaaaa 60
aagtccnaaa ctgtttgnct tnattnaggc agnaaatatt nnanttcggn atgacctgnc 120

atgnanccag taaggccttt acaaatnaca tccnaaacaa atacanntca natgancaaa 180
ntanggccca aatgaaatga cntctnnntc tntgctatgg cngaaactna tnangacnta 240
tggaatcana gatagctaaa gttcattatt taaagctnta ctcccatgag nattatg 297

<210> 1139
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1139
atccagtagg tcttggggaa catgggaatc tgcatttttt ttttttnac ngcnttgctg 60
ttcatcatca agnanttcag gncnctaggg gnaaaaaact tntttnaaaa tgagggagng 120
nttngcancn tnngtnattt cnttttnaat ngaatnngtt nttntnaaat nccaggacca 180
agnnccaaag tcancagtaa aattcanctg ngtncntttt naacgacctg naaaataagt 240
ttatgaccnc tntncggatn caaatngtnc aaaacccaaa nggccatat 289

<210> 1140
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1140
gtatagcgcc tcatatgaac atgaattcat atgtattatt tcatttatct tcacaaccat 60
ccagagatga ggagatgaaa actctaagac ctcccagctt ccaaatagca gagccagtcc 120
tcaaatttat tgcctagccc aaattctgtg cttcttcacc caggccacat tgcttccaca 180
tagtttccct tcagttgtaa gtagtagaaa agtaggactc cagaatcagt atccttacat 240
aaacagctca gtacatgaga ggcagttgtg agactggaaa atggatggga ctagactgtg 300

<210> 1141
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1141
attatttaaa agtcttattg aaactgaatt caaagggaat gtactatgct cccaggaaaa 60
agacataatt gagagcctct tcctcttggt ttttcactta tcatgagttc tggtctttcc 120
ttagcactgc tggttctggt tatccccccag gcttctcagc tcagctgagg gtgtgagcca 180
tcgtatgttg gggactagct accagctaaa ggccacgttc tctgtgctgt ctagtacatg 240
agcaacagag ggaagaagtt gtgtaattgt aagaacttgt caccttttcat ctcttttagt 300

<210> 1142
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1142
ctgatctcca gacccataag ggagatgctg agtagacaac tggggcttat gggtctggag 60
ttcagaggag agatcgggaa ggtgtccatt tggagtcatc cacgcagaga tgtgtgaagg 120
ctgctcaatg attttgaggt ttaaagaaaa aaagagatgt gaaaccaggg gccctgatga 180
ggctgcccag gtggtaagga agacagaaga gaagccatgg gacagctgag cccgggcacc 240
ctcaagcctt ggaggcatga agtttggtgg ggatctggca aagaacacct gggagcagcc 300

<210> 1143
<211> 189
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(189)
<223> n = A,T,C or G

<400> 1143
gaaacagaca aatctgtaat aacggcctaa ttctgtgtct gtgataagtt tcattactgc 60
ccaataataa aaaatgtgta ataattattt aagccaattt gttcatttcc aacaatttct 120
ttttttttt tcccnanacc cnnantttaa aaaccctggn tnaanggttg aaaangggga 180
nngggtccg 189

<210> 1144
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1144
agcagctgca tctaggggcc cttggtgaga tttacactca gagcctggtc gccccccgtt 60
agcccagatt caaaaggtga acatctgttt gcagaatctg attcatgaga aggtgagttt 120
attgttttca gtttagactt ttgggaagtt ggactagaga ggggagttgt tggggtcagt 180
gctggcttaa cagaaaacac agcgaatttc ccctccagtt ctccccaagt ccactgaaca 240
aggctagttc ctgcaccacc caggattcaa aggaaagacg aagggagcag aacttgtggc 300

<210> 1145
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1145
gaatattaag ggtattcatg agaggcaagt gataggttac tagggatgga ttgtgtggga 60
gaaataatgc agaggaaatg atgatcatct ccattgaatg acagctgtta tatagcaaag 120
ataaatgtaa aattagtctt attcttggaa gtggaagaca gcagttatca gagaggagaa 180
tttaatcaaa agaatcagaa tagcatggtc acaggccaga ttcacattga agtatttact 240
ctatatttta ctgctgttac attcaaaatg tatcagaagt ctcatggttc aattaataga 300

<210> 1146
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1146
gaacaaatca cttaaggaga aagtagaaaa aaagctgtat tttaacaaag aggtattcta 60
atcggcaaga caatgaccaa ccattacgac caaccattat gagaatatag cttagggacg 120
tttgtgctca gctcctcttt tacccaatgt caatgcctgc ctcagtgtat tttcttctgg 180
aggagagttt tgtggatgcc atctttccgt tacggaaaac cagtggagga atgggcagtt 240
tcttgccatg acccaccatc atttaaacaa ttggtgtttg agttcagaaa taagctcata 300

<210> 1147
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1147
cctgcctcag cttttcaagt agctaggact acaggtatac tctaccacat gtaggctaga 60
ttatttctg tagagaagag gtcttggtaa gttgcctagg ctggtctcaa actcctggcc 120
tcaagtgatc ctcctgcctt ggccacccaa agtgctggga ttttaggtgt gagctacagt 180
gcttggcctg cataatttta taacttatat attcaccatt ttacacattc agagaaagga 240
gttgtaacaa gacactttat aatatagact aagtcatttt attgacagtg tcatgaaagc 300

<210> 1148
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1148
ctttgggatc tttagatgaa tggtatcata cagatgtgta ttattgctaa ttctttgttc 60
tcaatcactt gttttcaagg acactaaaat ccatgtagcc cctaaaaaag ataaataagg 120
gcaagtcact tttcttcctc cagtcacaga ctaaagaaat tatttcagat aatatatagc 180
ccttcagcca tgggagcagg aagtgtttac tgctcaagtc agggtctcag ttggtaaaat 240
aaacggaaac ttctggttta gttttagggc cttctttcaa ataaaaactt cattttctct 300

<210> 1149
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1149
gagaggaaga agcagctgac ataaacatgc taagagggaa acgtctaaaa tgttaatgaa 60
tttatgaaga ttaaatttgg gaaatcatga gaatttagaa tttctcgaaa cttcaaacat 120
gaggtacctc agcactttct taccagcctt ttaacatggg cctccactgg gtgcatgtga 180
gaaagactgg gatcagagaa aagaacctga caagctccac cccctgtgtc ngaggtgcag 240
gaatgcaaat gagactacag tattcaaatg gtgctgctgg agaacagaca tgaaatccag 300

<210> 1150
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1150
agagggttgg tgaaaattca gacagaatgt aacttgacaa agagaagaca gcaacaactg 60
taacaattat cttatgaata tttgcgaaac tcaaagggat ctgattggtg acctctgggc 120
tttatcaaat taacatcaca acttctagaa gaaagtcaac cttcatcttt tacaatagaa 180
atcatatgtt ttgctaaccc attcctattt aggctgaaaa caattaagag ttatgggtac 240
ttaaaaaaat cattatgttt ataaaattag tgatagaagg agcatagtgt tcatacagtc 300

<210> 1151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1151
ggttactccc aggtgaccag gtggcctgta ggaaaccaag ggctgctata tgaccggagc 60
tggatggttg tgaatcacaa tggtgtttgc ctgagtcaga agcaggaacc ccggctctgc 120

ctgatccagc ccttcatcga cttgcggcaa aggatcatgg tcatcaaagc caaagggatg 180
gagcctatag aggtgcctct tgaggaaaat agtgaacgga ctcagattcg ccaaagcagg 240
gtctgtgctg acagagtaag tacttatgat tgtggagaaa aaatttcaag ctggttgtca 300

<210> 1152
<211> 104
<212> DNA
<213> Homo sapiens

<400> 1152
agtgcatcca tgcgttttca cttgttctta ggctacttca tccaataata tatttgagta 60
gttctgaaca ggaacacaag taaggagaat ttttttttt tttt 104

<210> 1153
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1153
aaaaaaaggc ggtgggggga aattatctcc acaaaacaaa aagtccgaca ataagcaata 60
agctgtccag ggctgataca gggcatgatg aggtcatcac agatccaggt tctttctgtc 120
ttctgctctg cattcgtagc ctgtggcttt gtcattccct catctggaaa tggcggctgc 180
agccccaggc acaatggccc gttgaggaag aaggggacg atgtgcagtg tcaggttatt 240
ttatcaggaa agttcaaagc ttctcagaaa tcttctgttg gaattctacc tgggtgtcat 300

<210> 1154
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1154
gacaaaagaa aagtatcatg tagatttcaa ctggagacag tgactttaat cttctaagtt 60
cagagacaaa tttcactgca cttccttcag tgtttctgaa gcgtgagcat atttgctaaa 120
cagttgccta tctcatcatt gtgttaggct cctcatattt tccttaggga aatgctatgg 180
agagttcagg tcagaatatt gtgttgtaaa tgttgccaca gtaaatgcaa ccccggcctt 240
tactgttggt tcatctcaga tgaatatgtt tctaaagtca tgataaacca acctcatgca 300

<210> 1155
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1155
cccagctccg gggcatcagc ctgagtgcgc ttgagctgct ccaaacctgg cccttcccca 60
ctcctctagc atcgccaccc gcatggccct ggaactcccg cggcggcggg ggcgggcccg 120
tgcctgctgt gccccgactt cccacaccag ccgcgcccac cgcaggtggg actcaggttc 180
gccctctggg ccaggtcctt cacgaggagg gagctaccct tcgccagaag tttgtgagaa 240
tgtggccgcc cttttcctgc cctctgcccc atgtgggtgg ggggcctcgt ggcccggccg 300

<210> 1156
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1156
aagaggaagg taagtagata aatagggaag taaaccaggt ttctaattca tgggtgaatc 60

cgatagaata ggtatcagat tagggattac aaaatgtatc atgggtacta aatatcagta 120
caaagcagcc acaataatat tgatttatgg atttaagtaa cccgaccaaa ccttgatgta 180
tctcatcatg ttgaatttct gctccagata ataaagtatt gttcgatctt gtgcattggc 240
cttttatttt tcagaatgat tcaaaggatg gctttgggga ttcactgtaa gatttttgt 300

<210> 1157
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1157
gtaccataag aaacttttc tgaaaagtgt attagcaaaa agaggactct tcagctttct 60
acttgtccgc gaactttgat gttctcctga aacctccatg tgtgtcaaga ttgggaaatg 120
ggagaatcaa gaatcagtag gtgttaggcc accgggattg cctgtatcaa aggaggagca 180
caaaaccaag ctgttctcaa tcaaaagtag atccaaaaca acgttttcac aaaagtccaa 240
agaaaagtat catttttcag gttttgcgaa gaggaaattg tggcgaacag aaaattggag 300

<210> 1158
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1158
ttcattttta aaaagcttct ccttattatg ttgttgttta acaacttaaa cgctatctct 60
agaccaggaa taattatttg ctatatatta cagcaaaaaa tatgtatgta taaatggact 120
cattcaaaat atataaagaa ctcctattac aaagaaattg acaaacagcc cagtatatca 180
atgaatataa aaatttgaga agatattttc cataagaaga tatctaaatg aacattaggc 240
atgagaaaac caaattttag gatatcacta cacacctggc atagtttaaa agactgaaaa 300

<210> 1159
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1159
acaaagcata tgtaccaaca atgcatgttt atattctgtg ccatgccagg ggcaaattca 60
tagttggcct gtttccataa gtgtggggat ggaaccttga aacacaggac atctcataat 120
gctgtaagca gggaccattg aaattgattc ctagagtctt gttctacaac ttctttaaaa 180
attactgatt tgacagcagt atgtattcaa catttaagac tttctgtcta attttgagca 240
tacattcttg actaaggcta gcaattagag attctttctt taatttatca gatatctatt 300

<210> 1160
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1160
ctcttttctt gcttagtgat ggcatccatt ttaaggaaca aacctggaaa tgctgagcga 60
agaacacata cccttcattt ccaaaggttc atttcccact cttactttag attgacaatg 120
agttgtagtt caaaggctgc cctgcaggga agctcatata ccctataatt taaagggcct 180
cagacgactc ttgggaaact tggtaaaaca ttctatttag agacatgcct gctgatatga 240
catatatttt tatagttata ccccttttatt gctgggacat aaaacctgtt ttcactcaaa 300

<210> 1161
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1161
gttgtaggcc tccttcatct gttcattggc tgtggcatta ggccagctac tctttgcact 60
tctgtaaagt gagacggtcg atcttgtctg cctctctaga ggatggctgc aggtgtcaaa 120
tggggtagtt aggtgggagg gcatttcaca aagttaaaaa atatgacttt ggaggcttgt 180
tatattgatg aggattataa tccctgagaa ttcctggtat gaaaaaggga aaagaagata 240
atttgtgaaa gaaataagtg tccagttact agtctttgaa aagggtcagt ctgtagctct 300

<210> 1162
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1162
cgttcctcaa aggggccctg gttgtcacct tctcccacag ccatttccac ccatcgttgt 60
ctagaatctc tttcattagc acattccaac ccctctgcca cttggtttag aaatgagctc 120
cctggctcag tgggcctttc agaatctgga accagacgga ggtggagtta agaagatagg 180
acagaacagg caggcccagg tgctatggtt ccactgggga gagaccattt aattctccag 240
atgctttact ccctgattgt cttttagcca ttattctttt cgttttaaga gacatggtct 300

<210> 1163
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1163
atttgattta aaaaaggaga aatgttcaca ctcagtctag accacttagg tatgcagagt 60
tgcatcctga aagcaattgc tcacactttc cttaatatac tccctctcca cctttgcaaa 120
accttgattg gcatggagcc tcgactgctt gcattgtata cacatgtaat aagaaagcat 180
taaatctctt ggaaattagg aattgacaag ataaatagat aaggcataaa gccaattttt 240
cacacatgtc cttaggctct tgtaaatgtg tgcctggtgc tgctttgact tcccaggtcc 300

<210> 1164
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1164
aacaactccc tacgtcctgt gtggggccct gcccaagtgg atgaggcatt ccttgaggag 60
tatcattttc cctgacaatc cccatcacct ttaggggttc cctgcttggc tcctttccag 120
ctgaaaaact agacctgtgc cattggggaa gctggacaaa gtctaggggg cccgcctggt 180
agagggtccc gggaagctgg atctgtcagc ctcggccctg aggcccctgt taactcaaga 240
ctgtgagctg cctctaggtg gtcacgtctg ggagctagct tgtatggctt ctgaccagta 300

<210> 1165
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1165
gctgtttgtg caaatacctt gaaaactttg aaacttgacc ccggacaggc ctggtgccag 60
gtcctttccg acttttgtgt tttctttcca cctttcacta ctgactttgc ctctttccta 120
ccaggaatgg acagggccga tggaggtgaa gcggacagca gctgcactgc cctgtagaga 180
ttcccaggcc ctgcccactt caaagcacac aagcccacct tttcctcatc acatttccct 240
ttgcaaccca gggaggcact caccaggatg ctgccaagaa ggaaacattt tattaacatg 300

<210> 1166
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1166
ataggataac aggaaaacca gggctgtagc cacagcctcc atattttcct aaaaatttta 60
gagtgtccct gctacttgac aaattgaaat actaagattt atacatttcc atggaaaaag 120
caacagtggg aaagagaggg cttcccagat ttgtcttata gatctcatcc ttcagagact 180
agccttctgt tagaaatgct gtctccaagc acaagacaga ataatcatat aataccaata 240
cacaccagtt gctaaggtct ccatcctttt aagtatttgt tactgagtgt tttgcctgta 300

<210> 1167
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1167
ctgccatgtc tagtgggctc ttctgggctc cgtcctgagt ttgtcacacc tcctagggcc 60
cagaggagat gatgtggtat ttctatcact aaaaggagtt caagaccagc ttgagtaaca 120
tggtgaaacc ctgtctccac taaaaataca aaatttagcc aggcatgatg gcgcatgcct 180
gtaatcccag ctactcggga ggccgaggca ggagaatcat ttcaacccag gaggtggagg 240
ttgcagtgac ccgagatcgc gctactgcac tccggcctgc gtgacagagc aagactccgt 300

<210> 1168
<211> 290
<212> DNA
<213> Homo sapiens

<400> 1168
ctgaagtgtt cctcagatct tagtatttac atctaaactc atctggaaaa aaatcatagg 60
agggtaaaga atatgaacaa ccttcactga atttccatat cttatataat aggaatgaat 120
ttaacatgga cacaagtccc agtgatataa ggaataggca agagtagtaa ttcttcacat 180
cttataaagt gtaagaactc acctttggga gaaaaatctg gttctaaggc atgtggtaaa 240
gcctttgttt cttccactat tggttatttt tctttttttt ttttgaaaca 290

<210> 1169
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1169
accagagctg ggcccaggcc aggaaacagg caccaattcc cgaggaaggt cgcctagccc 60
cattggggtg gggtcagaga tgtgcaggga ggaaggggga gagggcacgc cagtgaagca 120
ggacttatct gctccccctg gctacaccct cactgagaac gtggcccgga tcctcaacaa 180
gaagctgctg gaacatgcct taaaggagga gaggaggcag gctgcccacg ggcccccggg 240
tctccacagt gacagccact cgctgggggа cacagccgag ccagggccca tggaggaact 300

<210> 1170
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)

<223> n = A,T,C or G

<400> 1170
ccttttttttt ttttttaaaa aaaaactatt taatttttta atttattttt ggttgttttt 60
tgctcaatga agtttcagct tctcaacctt ctccccttcc cagggctgtg gacccagact 120
ggccttgagc cacagtccct ctttccctcc tccccctctt ccccctgcgg gctcccgggt 180
ctgtccattt gttactgtgc tgtgctgggg attggcgccg aggtggcgtg agattccgct 240
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<210> 1171
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1171
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atcaactacc tttcccagca gctcaggctc aactggaaca aaactctcac ctgcccgctc 180
caccacctct ggcctcgttg gagaatccac accctcacgc ctcagtccaa gctcaaccga 240
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<210> 1172
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1172
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ccaaaatgag agtgctctgc catttcgttc attttgtgtg tggttcatca tgtccccaaa 180
gttcctgcat ccactctatc aggaggcaga aagggagcat ctgagaccta atactgcctg 240
catgcagaag tggtcctgct gggtttgttt ctgtagtgat gacactttga atgtttttc 300

<210> 1173
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1173
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cttctctact ctccaaccct ccctctgtcc tgttgggctg ggaggcagga cattggtggt 180
ttaatcatgg actctgaaga gtcactgcta gctgagtttg aatcccagca ccctaattac 240
ataggtgccc ttgggcaaga tattttactt ctctgagctt cagctttctt acctataaag 300

<210> 1174
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1174
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ggaagaggga ccagcacagg tccaagttga aactcagaat ggaattttag gaaattatat 180
tcttcatgat ggttagatcc tgtgggctat catcactgca gttcaacaat gtggtgccta 240
gtaggaagag ttctcccagg aaccctccac gtgtgctatg ggatttctga gaaaaccagt 300

<210> 1175
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1175
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gcatgggcca tgagcgggca ctcccaatac agcttaccgt acaggctttg gacatgccgg 180
aggagggtga ggaacctggg gtaagccaca ggggtgtgga ggggctgtcc ccgcgtccgc 240
tgagccctgc tctgccccag ccatcgagac tttgctgtgc tacctggact gcacccacac 300

<210> 1176
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1176
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gctatcattt ttcattttcg tttttgcagt tgaacatact tttttcactc agagagttgg 120
agggacttgc ccaagactgc ccaatggcaa tgagatttca acctcaaatc aatgttcttt 180
ttaatgcaag atgataaaga gtaggattta gcctaattta ggatagaata aagccaaata 240
atttaggata ggttctttgg tgttcatggg tgtaatctaa tgcccatgat gcaagtggca 300

<210> 1177
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1177
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taattaggct tcagggaaat tgtgaataaa aacataaatc ttgcaatagg gtaggggaaa 120
gaaaataatc ccactcctga agtgatgaaa tgaagagtgg ctagagagga gaaaagaacc 180
aggacaggtg atatattagc aactgtcagt gtgaataatc cagggtatga catttctaat 240
ttagcctcac atttaaggtc atttctgatt caacctcaaa tgatccttct agcctactgc 300

<210> 1178
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1178
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ttcagataaa aaccagccac caggcatatg gagataacag ggctgaactt aggagaaaag 120
cctgggttga aacagagatt cggatatcct cagtatgaag gtgatagttg aaactgggga 180
ctggatgacc gaaagagatc acccagaaca ccagtacaga gaggagagag ctgaggatgg 240
aattttggga cataggtgct tctacagcac atggcaccaa cctctaataa tcacaccact 300

<210> 1179
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1179
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accactggca ctcaacgccc atcatcacgg gcaggacagt tctacatcat ctccctccgg 120

cctgaggctt cccaggcagt gtgggaaggg gggctgcatc tcctggctgg ggttcacacc 180
taagtttcct gaggtccaag ctgacctgga aagtttctag tgagtggcac atcctgtccc 240
aacaagggga acacgggcag gatgtgcctg caccctggga aaagtgttgt ctccgcacac 300

<210> 1180
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1180
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accactgtca ctcaacgccc atcatcacgg gcaggacagt tctacatcat ctccctccgg 120
cctgaggctt cccaggcagt gtgggaaggg gggctgcatc tcctggctgg ggttcacacc 180
taagtttcct gaggtccaag ctgacctgga aagtttctag tgagtggcac atcctgtccc 240
aacaagggga acacgggcag gatgtgcctg caccctggga aaagtgttgt ctccgcacac 300

<210> 1181
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1181
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catttaattt aaatgactct gcttgtctca ctgttatgat aaatttgtgt ggtagatcgc 120
agcctgttag ctattactgg aagttttctg cttttattac aggcctctca aataggtagg 180
ttttaacatt ttattggacc ccctgccccc tcccaatttc aactattaaa tccttaaatt 240
tgttgttttg gttatgcaga agttagttat caggttatat ggttcccaat gagtgaggaa 300

<210> 1182
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1182
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tgggaggctg agcacacact cgtacaccgc tggcaggaag agaaatgact tttctggact 120
acaatttgga gataacacaa acattaaaaa gaagaaaaaa ttgtatccct ttttgactaa 180
gcaattctag gattgttatt tttttctcct gaggaaacta gcatggatgt tcacattcag 240
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<210> 1183
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1183
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ctgtgattta ccagctgtga gccttggggt tgctgcttac tctcttggtg attctttact 120
catttctatg atggggtaga ggataatgcc tatgcttaca aagtggctgt gggaagtaaa 180
ccggatggga taagaatggc ttgctgtgga ccacaggcac cgcaggataa ccattcctca 240
gaactcctcg tactgctcta gtgcttggag gtccgtgtat tacctcagct attccaaccg 300

<210> 1184
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1184
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gacgtgtgtg gttgactggg atgaagttgg agggaggggc agggccttgc aggggattgg 180
tactgatccc agggaggaag tgttggggct tcatgaacta ggatgaaagg aggcccctga 240
gccatgacaa ggggcacatc caggatttcc gccaccctga atttagtaga gctagtaggc 300

<210> 1185
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1185
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agtaaaattg atctacacaa gtatctgact gtgaaagact atttgagaga tattgatcta 120
atctgtagta atgccttaga atacaatcca gatagagatc ctggagatcg tcttattagg 180
catagagcct gtgctttaag agatactgcc tatgccataa ttaaagaaga acttgatgaa 240
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<210> 1186
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1186
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taggagctgt ttacttggag ggaagcctgg aggaagccaa gcagttattt ggacgcttgc 120
tctttaatga tccggacctg cgcgaagtct ggctcaatta tcctctccac ccactccaac 180
tacaagagcc aaatactgat cgacaactta ttgaaacttc tccagttcta caaaaactta 240
ctgagtttga agaagcaatt ggagtaattt ttactcatgt tcgacttctg gcaagggcat 300

<210> 1187
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1187
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atttatagaa aaattccacc ctggccatgt gggcctgaaa ctctggaggg ctttaacaat 120
gtcttgaggt cattgtcatt taaagagatg actcattggt tttatttagt agaaataaat 180
actaaataaa taatctccac agattatcca gaggggtaag ttgaaggatg ttgacagata 240
actcagtaaa ttgcgtctca aatattaata agtttattct atgccagcac caaaaatatt 300

<210> 1188
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1188
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cttcaccaca tgtgggaaat catgtggcaa aactgtctct cttaaaaaaa aagtcaccaa 120
ggaaacctcc ttctgcaatt taagaaataa aatcccagtg acattgattt ggatgctcca 180
aacatgtcca taatggaaga gcttttccag gttttggttt gggcccccca gaccaaagct 240
ttgacacata atacaagctc tgtaagtctg ttttcctgtc tgtaatttgg gattgtcatc 300

<210> 1189

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1189
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tttcctttta actgaaggtt ttcttagata tttagtttgc tggtatattc ttttaaaatt 120
gtatcattgc tttctttcta tattggatta ttgtcagaga acatgatttg catgatatta 180
acttttgga gtatattgtt gcatctttgt ggcctagtac atagttaatt tagtgaatgc 240
ttccagttgt acttgaaaag aatgtatatt ttctgattat tgagggtaaa tttctctata 300

<210> 1190
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1190
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gactagagaa caaactaagg ttgctgcaac aaacaaggac ctcttccaag aagggctccc 120
aggcctggcg cagtgactca tgcctgtgat cccagcactt gggaggccga ggcgggtgga 180
tcatttgagg ccaggagttc gagaccagct tggccaacat gatgagaccc cgtctctatt 240
aaaaatacaa aaattagcca ggcgtggtgg cgcctgtagt cccagctact caggaggttg 300

<210> 1191
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1191
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aactgtaact tgcaaatcgt atccctagcg ggcccaacac aaatcctgga gaatcagagc 120
tggggtggcc ttggaaactg gcaagtccag cttcatcttc acagggctag ggaaacaggg 180
cccagggagg tcgccctgcc agggccacac agggaggagg tgtgtggctc catgtggcct 240
caggcctgaa ttctattatt attattatta ttatttttga gatggagtct tgctctgtca 300

<210> 1192
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1192
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agacgtgtgg gaggagcggc ggcccatgac cacggcgcgc ggctggcaca gcatgtgcag 120
cctgggtgac agcatctact ccatcggggg cagcgatgac aacatcgagt ccatggagcg 180
cttcgacgtg ctgggcgtgg aggcctacag cccgcagtgc aaccagtgga cccgcgtggc 240
gccgctgctg cacgccaaca gcgagtcggg cgtggcagtg tgggagggcc gcatctacat 300

<210> 1193
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1193
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tactgaagga cctgaagaca gatcatcttc acataatcag catgacccat aatctgtgat 120
gtcactgagc ttcttttatt tctgtagtca aggaatgtgc acaagtaatg caaatataat 180

tacttttagt cctgaggatt agggaacttg ggggatgttc acattacctg atgatgtcaa 240
tattgtgtta tgtttaattt tttttaaaaa agatgcttat ttattactga aataatctaa 300

<210> 1194
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1194
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ttaacagata cctgagtgcc aagcataata aacaggaaat atacacttca aaaaagaaaa 120
agaaaaatga atgcatactt atcaaatact tgctgtaaga gcattaagta ctttacataa 180
gtcaaatcat ttaatcctca tgaccctaag aagttatttt aagatctttt gagaatgaga 240
aaaaaggatg agtaagggta ggtgatctat gtaaaacaaa taaattctag taactggcaa 300

<210> 1195
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1195
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tactgaaatt tgcactcact ttcagcttac agtttgggta ggactgctag acccagttct 120
tttgtcatct cattcttaga gagctcttga aaaccaaagt atttaaaacc ctgcaagttt 180
ctgtgcagat gagtgcaaat ttccacccag cattggttcc tgagtaatta gaggaaggaa 240
gccatgcaaa agctgctatt gcccaggctc cagaaaaaca tcatgtaagg tttgattcca 300

<210> 1196
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1196
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atctctcttt ttacaattgg ggagctcgag gctcagtttg gtcatgttgt aagtccctgt 120
ggagttgggc tccaacccag gtcagtctgt ttcccaaaac ccttctgttt gactttgccg 180
ctgaagaaga tacaatgaga tgaagagtct tgggcatgat ggcacacagg tcatcaggaa 240
gaaggccatc aggaagttgg actagaggtg ggaggggaga aggaattagg ggatttggaa 300

<210> 1197
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1197
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aatatctttt cttttgagag tacccccagt ttatttctac tgtgctttat tgctactgtt 180
ctttattgtg aatgttgtaa cattttaaaa atgttttgcc atagcttttt angacttggt 240
gttaaaggag ccagnggtct ctctgggtgg gtactatncn gagttattg 289

<210> 1198
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1198
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tcagagctag tggggcctgc tcacacattc cagtagtttc ctctttattt gtcctgaacc 120
aagttgtaga atttaaagga ggtgaagtaa ggcgatttct atggaaaata tatttttctt 180
ctttactcct catgctgagt gcataagaat ttattatttc ccctgaatgt tcaaagtggt 240
gtgtgtgtgt gtgtaaaaga accaggagca aacaatctta ataggaatgt gcgatcttgt 300

<210> 1199
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1199
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gttgttgagc aattttgttt ttttttaaag cagggtgacc tgaaaatgct ttgtagagga 120
catgggtttg ggccgcccct tgaaatgctg gggaggattt gactccttta ctgtcgagga 180
gggggaaggg cattgccaca gttgggacag tggcacaaac tcaaaaggaa ggaagaacta 240
ggtaatttga aaaacagaat aaaccaattt ggctggaaag tgaggtcttg tgagaaagca 300

<210> 1200
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1200
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tatctccagg tggaccgctt cagcctgctg cccacggagc agccccggct acgggtgcct 180
ggttgcaacc aagacttaga tgttcagaaa aagctctatg actgccttga ggagcacctt 240
tcagagtcca cctcgtccaa tgcaggccta tcactgtccc agcttctgga tgaaatgcgg 300

<210> 1201
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1201
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gtccctgcgc tcaagctaca caatctgatt agtgaagtat tactaataca ctagaaaaat 180
atacatagta attaccaaat gactgacaca attttatagg gggttcagag aaacatctgt 240
gaatgggtaa taatgaaaaa agaaaagttt ttctctttgt tttagtctga ccctttaac 300

<210> 1202
<211> 148
<212> DNA
<213> Homo sapiens

<400> 1202
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ctgctgcctt ccctggcagt gttctggggg tggattccct acacctagat gttcaaggcc 120

ttacttttcc tcccacaaag gattcgca 148

<210> 1203
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1203
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tctaaatcac ttcgaccaat aaatgtattc tcctccttaa agcagagttg tatcaactct 120
gtgggagcat ttatgagctg tcagtcccca cacttctagc cagaatcaca ataaggtctg 180
gctgggtgtg gggtgctgca taggaaaggg tctctggaga agcaagaagg gcacaatcat 240
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<210> 1204
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1204
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tttagaaaag tctcctttgt aatgtgcatc attaccagtt atctaaagaa aaacatgtaa 180
aagccaacaa aacccttgaa aatattttgc atatggatgt ctgtttcacg tttcaactga 240
agatgtatag agcacctctg atgatgagga agataccatg ctaggcagta ctttcaagaa 300

<210> 1205
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1205
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ttaggtatga gaacaagaag agagaaaact tggcgctgac cctgttatag tggttatagt 180
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<210> 1206
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1206
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tgtttatagt ttactttgaa agtaaaatat actatgtctt ggttttgagg atattggata 120
caaaactctc ttcctttagg gctactgagt cttgattcct gatcatcaga aatttcacca 180
gaaacaactt gcttccaata tacccaattc tatatgaaga attcatggag agtgtactgg 240
cactggaaga gtttagtgtt tcttgtatgc ttgaaaataa agtatgtact gttttgaatg 300

<210> 1207
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1207

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<210> 1208
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1208
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tgatcttgga ccaccgaaaa ggtaaaacca gtggcaagct tgaatgcttg ttttatggta 120
gacttagata cgagaacggg taaagggtac tggataaact tgggatataa gattgtcttc 180
ttttatgcat accactcata ccactggtgg gaaatttcat ttggaattac tccctagggc 240
catggagtct tcctgcatat gctaataatg taagttccca ttacctttgg taataagaaa 300

<210> 1209
<211> 215
<212> DNA
<213> Homo sapiens

<400> 1209
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gaatggggcc aggagaagac ataacagggc atgaggatct tctctgtgcc aagaatcatg 120
ctaggtaacc cccctgagat ttctcatcct cttgagaatc ctgtgagatg atcctgctgc 180
ccttattttt ccagatggaa aaacggatta cccag 215

<210> 1210
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1210
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ttctctccct gccaccaccc cccaagccag gaccccactc cttccccgag gctgagctga 120
gccttttcca ggggcagggc ccaggagacc attcccagaa tccatggggc agtagccagg 180
gctccggctg ctggaggaag cagctatcca caaagcttcc tgccccagag ctgaggctga 240
ggccccggga gaggcggccc ctacccaaac actggctgct ggcattccac caagtgaccc 300

<210> 1211
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1211
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tattttaaat gtcttgcagg gagtggaaga aagctttgct taaaaatgtc accatatgct 120
aactatatac agcacttcaa gtttatttat tgttaaagcc tcatgtaaat cacgtcattc 180
tgaaaatcat ggaaactgca catttgtgca ttaaactatg taaacaacaa aaactggtca 240
tccgtccaat tgttgtttca cttattttga attatagtgc aattttgtgg agggtgaaat 300

<210> 1212
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1212
agggaaaata tgacaaacct caactatggg agttgtccac aatacaaaat tttgaaaaaa 60
cattacatag tgataatatc atacttggtt gttaggcttg ttgcttcccc acatcagagg 120
catctaatga tttatctttt gtaattgctg tgaacttttt taaataagcc atttagtgtg 180
aaattgtcat gtatcaaatg gctattggaa atggacttta ctcaatttta attccactgt 240
aaataaggac ggagtcattc ctacaaggct ctcttcagag aaatagatta aaagtccaat 300

<210> 1213
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1213
ctctcactag ccctgggcac ttcccactgc ctttgtggac ttctgtttgc tcttctgtag 60
aatgggataa cagtgccagt cctgcttact atttagggtt atgtgatgct tgcagatgta 120
cagggaaagc accgctgatg ggagctgctg aagtttctag gggaggtgaa ggtggcgcct 180
cctcccctgg tctaagtggt agatggtgca gggagaggag aatttcattc tgtggcagca 240
gctgatagat tccaggtctt taatactacc tgggaaacct taacaaagca gtcagtcacc 300

<210> 1214
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1214
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tatctccagt tggttgaatc cattgatgca gaaaccacgg atacggagag ctgactctgt 120
gtgtgtgtgt gtatactcac caattcttta tttattnaac ngatatttat tgaatnttta 180
ctatgnggga ngnatanttn angagcntgn ntntanctta gncntcancc ntggcttann 240
gcnccnggan tctnatgnag atccnaganc gntngnccnn atcacnntgc tttgcgcct 299

<210> 1215
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1215
tttttagttt tccaaatctg aattgactct ttttttcttt cttctagagc cagaaacttt 60
tgataccatt tttcatgctg ttgaacttca tcttgtgttt ttccaggaag gtgttctaga 120
acttcttcca taaatgttgg cttcccttta tgtttgtttc tcacctttac aaagttctgg 180
tgatcataat catcccaggc accttgtcgc cctcctgttt gctgaaggaa tttttcaaaa 240
tctagtacct cttctggaag agtacttggt gttactttgt ctacaggaac tttgcttgag 300

<210> 1216
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1216

tggaacagga gagtcgcatg gaggtactgt ttgcctgtgc tgaggccctg catgcgcatg 60
gctatagcag tgaggcctcc cgtctcactg tggagcttgc ccaggatctg ctagccaacc 120
cacccgacct caaggtagag ccgccccctg ccaagggcaa gaagaacaag gtatccacga 180
gccgtcagac ctgggtggct accaacaccc tgagcaaggc ggccttcctg ttgacagtgc 240
taagtgagcg tccagagcac cacaacctgg ccttccgagt tggcatgttt gccttggagc 300

<210> 1217
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1217
ggaaggaagg ggcaggaccc tccgacgggg cagcagtggg ccaggtgtcc cccctgcaca 60
gtgtttacac cctgggacct gccgcaaggc atggctttca gaagagcctc cccccaagaa 120
atgctgcaga caggacgggg cttctagaga ccttggcttc tacccaggaa ggctgatcta 180
ttcttcgact gttgcatcag cttcctcaac ctctgcaggt tcaggctgcg agccctaggg 240
agcatcactc aaagcaccct gttggccact taggatcagg agggcctcgg ctcacccaag 300

<210> 1218
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 1218
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gttgtgttgg cacgcacctg tagtcccagc tacttgggag cctgangcan nanaatcgct 120
tgaacctntg aagtngaggt tnatagagnc nnaaccgngc nanngtactc cagcntttnn 180
gacattancn agattncgnn tnanaaatna aaannccncc ctttaaattc tgtttttttt 240
tnncttnnng gtnnttttg tggagtanat tttnnnttt gnttctatta 290

<210> 1219
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1219
gctttttggg acagtagaaa ttttcacatt aatactgtaa attctgtacc atattttgac 60
acctgctaca tctgattcaa atgcgggaaa aaataccatg tgtgcataat gaaaaatcat 120
tcatttttcc ctttcttacc ccagcaggaa tagaaagcaa ttccaagcca ctctgcaaat 180
gtatccaagg ttagagattc gggagctggc caacatctta caccccaaat gactgaagca 240
tttcagtagg ctgactggct cgaaataaca atttaagaaa ggggggaaaa aacctacagg 300

<210> 1220
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1220
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tccacccacc ttggtctccc aaaatgctgg cattataggt gtgagttacc actctgggcc 120
aggattagaa ttcttggtct cttaacctct cgttcagttt tttcctcgtc gactcacatg 180
ccctccaaat gaataccgaa gttagatttt gcatattaaa ttgaaagaaa gttaaaagcc 240
ttactacttt ctacttcagt gtagggngga tatgcnaagg nttccnagtc caaatngann 300

<210> 1221
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1221
caaaagtaga cttttctcct cagcctccat ataattatgc tgtcacagct tcctcaagaa 60
ttcacattta tggccgatac tcccaagaac ctataaaaac cttttctcga tttaaagaca 120
cagcatactg tgctactttt cgacaagatg gtagattgct tgtggctggc agtgaagatg 180
gtggagttca acttttgat ataagtggga gggctcccct caggcagttt gaaggccata 240
caaaagcagt tcatacagta gattttacag ctgacaaata tcacgtggtc tctggggctg 300

<210> 1222
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1222
agatttcagt aaagctcgtt cgttttgttt ggttttcttt ttacctagtt gctatagtgg 60
ctacagtcta tactcaatac ctataaaatg cagtaagcat gtgttacaga aagaggttct 120
ggtgggagag aaaggtgcgt gtgagacagg agaattgtct taagcatata aaacatgtat 180
gattccagaa ttttagtatg ttttgtataa aactattttt cattacggag actagaagtg 240
aacagagaat tacacaagtg tgactataca aattgtaaaa cagatactat aatatttcct 300

<210> 1223
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1223
ctggcctctc tgaagactaa gggcctggtg ctgttttggt tgtaaactgt gttccattaa 60
gtggtacctc aaatgaaccg gacactaaat actcctccat tattatagat tctgcattgg 120
atgtcacaga cattgatctg tgggaaatac tgtgtgctac tcctgagaaa accctatgag 180
aaattttaaa ctttttgct gacaactatt tatgacttta ttcaacaaag tgaaacaaca 240
tttggacgac tgttgcctgt tcttgaatgt cattcatggt cagccacaca aaaacactgc 300

<210> 1224
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1224
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tgtcaaccca gattggcttt cccactctac agtttctgta ggatgcatgt tttcaccatt 120
atcaggcttc tgcagtgctc agagggcagc aatacccagc aaccagtgac ccgaggccag 180
caacttcttt tacttccccc tcagttggat ttgtaacaga gtatctttgg tgggacactt 240
ctgtgtgaag agattttact agcaccctaa agaatggatt tctggcaagt tccacaaggt 300

<210> 1225

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1225
gctgctgggc ctggaagtcc aggtggggcc actcgctaat tctcatgtgt tgctccggcc 60
cctccagctg caggtgggtg tggagtttga ggccagcaca aggatgcagg acaccagcgt 120
ctccttcggg taccagctgg acctgcccaa ggccaacctc ctcttcaaag gtaaaggtct 180
cggttcccct acgcgggaaa caggcaggag gtgactcaac tctgagtgga tgtgtgggcc 240
accacaggtg ctggaggaca gtgtgctgcc accctgtggg cctccacatt accggggaac 300

<210> 1226
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1226
attctcccaa aaaggttcat cccgagaaca ctgaagaata atttttggga atgttaatga 60
tgtgccacaa aaattagtat tttatgatca aatgaatttg ctttataata ttttatctaa 120
atattcatgc tcctgaagac tcacaaaata aaggaaactt tatccagctt tttccagaat 180
ttacttgcac atagactcca tttatatagc atgcctattg aactctgtaa atagtgcagt 240
tcaggaaaga tagcagtgtg ggaaatgtca ctctaatggt catatacgtt tatcccatgg 300

<210> 1227
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1227
gaatcttcct taaagtccag agtctcccgg aacatggaga ctgtccttcc caagccttct 60
cgcggggagg gaattccttc tttctgccgc ctgttacatc cctgtgtgag aaggtctgtg 120
agctgagccc acatcactcg ttctgctgcc caggtgtgct tccatcttca ctgtggaaaa 180
gtcattttga actccccgga gactgcaaat taagtaatca aggacagatg ggactgggtt 240
gaccattcca aggagtacag ttacttgaag aatctggaag caataccgag cacatttgtt 300

<210> 1228
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1228
ctgaataaca acctaactac tacccctcaa cctcaccccc accccaggaa aagtaagtct 60
ttttctaacg atccaccaga ttagggttac atttaacagt aactagaaag gttaatttta 120
accttaatca gaaagattaa tttctgtcct ttcagtcttc tttctgtgct cataaataag 180
cattgtttct tttaatcaac ctgggcagta tctttctcat tttaacagtt gtctagagct 240
cagttgtccc agcatttatt tcactggtcc ctgatggatg gagggtggtg ttgcttcagt 300

<210> 1229
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1229
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aaagttcatt ctttctagta cctacattct ccaagtaatc tgctcttttc agtgcctgaa 120
gtaaatcttg gttaacagct gaggagtagt attactgcaa gtgttcgtca cttgttgctg 180

tatacatctg tcagtcttat caaggaaatg tggaatggtg aatctgcttt acaatgagta 240
tgcctagaac tcagaatctt attttattta aaacattgat ctcgttttat tttattgaga 300

<210> 1230
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1230
gcttcatgag agactgacag ctatcagggg ttgtggcact tagtgaggac tctcctcccc 60
cagtgtgtgc tgatgacaca tacacacctg acaatagctt gagtcttctc tgttcctttt 120
actctgtagc caacatacac atgatttaaa acccttttcta aatatctatc atggttcatc 180
cttgtccaat gcagagtcag agctatttgt acttcattac tattcgcctt ggaaataata 240
atgaagtaca aatagttggc tttcttttttg caaaaataat taaagttttt gtatgttgca 300

<210> 1231
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1231
ctccaggctc tggttcccat gcagcagctg tcagcgttca gacaacccct cagaacgtgc 60
ccagccggtc aggcctgccc cacatgcact cccagctgga gcatcgcccc agccagagga 120
gcagctcccc tgtgggcctt gccaaatggt ttggctcaga tgtgctacag caacccctgc 180
cctccatgcc cgccaaagtt atcagtgtag atgaattgga ataccgacag tgagcagggc 240
aggcagactc aactaagccc ggacctgtgg tggcacactg ggcaggaccc tgcttcatct 300

<210> 1232
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1232
atcccttcaa gacaatgact tgtcttcata gctcatcagt gagttcacag tctattgttc 60
ctttttattt ggccagtgta aaatagcagt tattgcaaga acaaagggat taaagcatct 120
gaagaccttt gtttgagttc tgccacttta gtagtgatac atctcagaga tcaacctctt 180
taatgcctgt ctttgttccc tggaacagag tttgtgtttc cttttgtgtt acaacagaac 240
tctggtcatt cctaccatag cacttttgca cactatagat tgcaacccac agtattttac 300

<210> 1233
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1233
aggtaatgag gacccctgct agcgaagcag tggcagaaat ggagaaaaga gttgggtgca 60
gggaatgtca gtgatgtaaa agtcaaagac ttgactgctg aaggaatgta gggaatcagt 120
gcccttggaa tgtcaatggc ctggtctaca ttgagaatga agactgagaa agggcttcct 180
gagggacaga gagctgcagg tgatcaagga cactcaatgg gtctctgagg gaaaagaaga 240
ccaaagaatt agggagtagc tagcagaaaa tggaggcatg acactaaaca cagactgaaa 300

<210> 1234
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1234
aatgggggggt gttcttcata gtggatttct ttttttaaac ataccatctt tgtgtatata 60
catttctctg gaaatgtttg tgaaaaggta aagataactt ccttagtgta attgtgttga 120
agtggaatgt ttctagtgtt tgtgaagata tcaattgctg gctgatattt taagctggat 180
gaaaaatgtg ggtgaagtaa tcttaaaggg tgatagattt gatatgagaa atttaaagta 240
atgtgctcag tgcgtagtgg tgataaaaga atgtagccta cttgttttcc atagactata 300

<210> 1235
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1235
gggaagaggt ggttctatct gaggacagtg tgtgacttcc ctattgatgg gctccctgcc 60
atcagcacag atgggcatgt tgtgtgcccc caggcgacta tctgtgcatc agatatggtt 120
gctgaagtca caattcactg atggaaaagt tgaaacagct ggctgtcctg aaacaggaga 180
tgtgccattg atagatctac tggatccaga gtgatttggc caaagttaat catttctttc 240
ctgacttgaa aaattgttca ttatgtatgt gaagttgcct tagaatagag catcatctta 300

<210> 1236
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1236
tatcacagtt tgtaaacggg tgtttttgtc cttgttattg aagtatacaa ctctgcttag 60
ccaaacatac caagcaacag acagaagcgt cacttggaga gaagaagaaa gggttaactg 120
gcagagctac tgtaaaagaa ggatagagga gggtaagttt gaaagtggcc atgggcaaga 180
attttctcca gatagctctt gattataatc tctctcacct ggattatttc ccatctcctg 240
acagtttgtt ctcacataac tatcagcagt cctctcaaca cagaatcaga ccatgtctct 300

<210> 1237
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1237
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aacttattta aatccatgta actgaactaa taataccagc tgcagtttta tcctggctgt 120
aaggactacc atgatgggaa aaaataagag gaaaccttac cctcccccac attcccacat 180
gaccagcagc ataagggctc caggttacca cagtatccat catttgtctt atggccaccc 240
aagtacacct gtttacatga cttactgggc ctgtgtagaa attgcagttt gtgataggat 300

<210> 1238
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1238
cagttttgat gagcatgatg aaggcagtat cattttgtg cttgatacag tggccggaaa 60
gttcaggtct gggtggcatc ctgagaaagg gagcaaggca gtgtggtgat gccaggtgca 120
agaagttggg ggtgtccaga gggaagtgag atgctctgca aaaaagtcag agggcatctc 180
agaaaataga gccacttttc ttgatttccc agaaatagtc actcactcaa agcccttgta 240
tgtgcagcag atttcactga tgctttaagg aggagtttat gctgcaaaaa agcaagctat 300

<210> 1239

<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(230)
<223> n = A,T,C or G

<400> 1239
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ttgacgttga cttaatcaga gggtcnacat ttgccaaagc aaaacctgaa attccatgga 120
catctctgac tcggaagggg cttgttcgag ttgtattttt tccattgttc agcaattggt 180
ggattcaggt tacctcttta agaatctttg tttggctgtt actactttat 230

<210> 1240
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1240
gaattgttag agaaggggat tctgattatt taacaacaga gaaaggcttc tgggttatct 60
attagagatg aaaggattaa agagaaacta tagatcagct agtccttatg gagagaggaa 120
tataaaggaa agagaaaaaa taggactgtg gcttagtttg ggctctgttg actgactata 180
aaagtgagcc aatcacatag taattttctg acaaaataga gtttaggtta aggcttaggt 240
caaggctgta ctttgtgtta atagtattat aatgagcaaa ttaatagaaa caagaaaaca 300

<210> 1241
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1241
gggatttgaa tgcccatgaa agacatttta ttttacttga atatattctt gcttcacttt 60
accctccata atatgttgta cattagtgct gatcaagttt acagagttac attttgcttt 120
cctaaccatt cagtcaggaa ttaaaatatg gcattgtata acaactggga agaagctcat 180
agtggatata aattagagta gataatgggt caccttgata gcctctgttt acattacttg 240
tatatgggca aaataattat tacctatacg tgtatttaag cttaattttc atataaacag 300

<210> 1242
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1242
gctgggtgtg gtggcttatg cctgtaatcc aaacactttg ggaggccaag aagggaggat 60
cacttgagcc caagaatttg agaccagcct gggtaactta gtgagaccct gtttctaaaa 120
ataaatagac agatgataga tagtcagata gagagagaga gagagatgat atagatatag 180
atagatagat agaatgttct ctaccccaag ggtggagaaa gacttgagca aagacacaga 240
ggccacatgg attaaaagga ggaggagaag ccctgtgttt gcagggatga atggcctatg 300

<210> 1243
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1243
cggcggccgg gggtaacgca cagagagcca gccgggcgcc tatctgggcc gtaccgtgct 60
ggtggctggt gcaccggcct gcgccatggc caggcctttt tctctagtca ggaccgtccg 120
gatggggcct tagggccccg ccccgtctag cctggcccgg cctgcgcgag ccccgcaagc 180
tctgcaggct ggctagcggg cagaccccag ccccacgtcc tgctacccac ctacgaagga 240
tccggggatg ggcagcgcca cccggcccgc tccagagtca gcatgggtct ccgtgaggcc 300

<210> 1244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1244
cgccgcacag ctgctgaatg ccttgggact agctggtgat tacctcgccc agggcctgaa 60
gctcagccct ggccaggtcc agaccttcct gctgtgggga gcaggggccc tggtcgtcta 120
ctggctgctg tctctgctcc tcggcttggt cttggccttg ctggggcgga tcctgtgggg 180
cctgaagctt gtcatcttcc tggccggctt cgtggccctg atgaggtcgg tgcccgaccc 240
ttccacccgg gccctgctac tcctggcctt gctgatcctc tacgccctgc tgagccggct 300

<210> 1245
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1245
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tgaggtggag gtgatcagcc ggcacttgcc cgccttgggg cttaggaacc ggggcaaggg 120
cgtccgagcc gtgttgagcc tctgtcagca gacttccagg agtcagccgc cggtccgagc 180
cttcctgctc atctccaccc tgaaggacaa gcgcgggacc cgctatgagg tgcgtgaagt 240
gggcaggccc tgtcagtctc gcgttcttct tggaagccga gacgcgggcc accctcggtc 300

<210> 1246
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1246
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aaagttcgct ttgaagaatt gcttaagacc cacagtgatc taatgcgtga aaagaaaaaa 120
ctgaagaaaa aacttgtcag gtctgaagaa aacatctcac ctgacactat tagaagcaat 180
cttcactata tgaaagaaac tacaagtgat gatcccgaca ctattagaag caatcttccc 240
catattaaag aaactacaag tgatgatgta agtgctgcta acactaacaa cctgaagaag 300

<210> 1247
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1247
ggccgttggg cgagatgaag ctacactgtg aggtggaggt gatcagccgg cacttgcccg 60
ctttggggct taggaaccgg ggcaagggcg tccgagccgt gttgagcctc tgtcagcaga 120
cttccaggag tcagccgccg gtccgagcct tcctgctcat ctccaccctg aaggacaagc 180
gcgggacccg ctatgagcta agggagaaca ttgagcaatt cttcaccaaa tttgtagatg 240
aggggaaagc cactgttcgg ttaaaggagc ctcctgtgga tatctgtcta agtaaggatt 300

<210> 1248

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1248
aaggagtata gatgacatag gtcacctcat tcatgaaggc ctacagaaga acacttcctc 60
gtgggtactg tataacatgg cttcatttta ctggagaatt aagaatgagc catatcaggt 120
agtagaatgt gccatgcgag cacttcactt ctcttccagg cacaataaag acattgccct 180
ggtcaacctg gcaaacgttc tacacagagc acacttctct gctgatgctg ctgtcgtggt 240
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<210> 1249
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1249
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acttccaccc tccaatgttg tgaatgcagt ctctagcatt cgctatttaa tgtcttcttc 180
ctgcactatt tgagaaatcg cgaggtcgac ttaataccgc agtcgccact tcgcggaccg 240
gagggcggag tctgcttagt tctgaggact gcgtgggtcc gcgcagagag ctcctgctag 300

<210> 1250
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1250
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agcaaggaga gggccgtggt ggtggcctgg gaaaggcggc tgatggtggt gggcgatgca 120
cccgagagca tccagtttgt gctggatgag gactcctacc tggtgcctga gctcgatggg 180
gtccgcatct tctcccgcag cacccacgag ttcctgcatg aggttccagc ggccagcgag 240
gaaatcttca aaattgcctc aatggccccc ggggcgctgc tcctggaggc tcagaaggag 300

<210> 1251
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1251
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aatgaagggg gttaagcctg ggagtgagca gatcagacgt gctttttag caagatcatt 120
ctggatctct gtggaaactg ccttgtggtg atgagagcaa accctgagac cactggggtc 180
cctgagctga taagcaccaa ggcagtgggc cggagagagg agagatgttt aagaggtgtc 240
ctgggttggg tgcggtggct cacgcctgtg atcccagcac tttgggaggc cgaggcaggt 300

<210> 1252
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1252
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gtgtctgcca tgctgatgat agagctcatc agtctttgat aaatactgtt aggtccttaa 120
gtgatttttct gtgaaatctt acgcatagga tttctgtggt cagggtttga cgtctgatct 180

tgttcgtcag ctccccttgc tcaagaatgc aagtgcatta cctcttaaat tttaaaagct 240
ggtaaactta ataggaagtg cttctttata ttgcaggtgc taaacttaag gagcccatta 300

<210> 1253
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1253
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tggtcttgaa ctcctgacct caggtgatca cccgcctcgg cctcccaaag tgctgggatt 120
acaggcgtga gccactgtga cgggccttac atgcaatttt tatttatagc cagtattaga 180
gaattactag gaaatttcat ttttatattt agtgggagaa agccatctac agcatgtctt 240
caagcatgga ctatctgtaa catacagtgt gcttgctttt gaattgtttt agtgttaaat 300

<210> 1254
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1254
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tgcagctgag gcagagtaag taggaaggag agaggtcagg gctgagatca gggaggtagt 180
ctgaggcccc tctgtggggg acctgataaa tgtgtttgaa ttcattttga agtgtaatag 240
gtccatatta gaagcagaaa ctagaaaagg agttaggctg ataaacatag ggatcataac 300

<210> 1255
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1255
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tatgttctta ttttagcaat aaaacgaata ccagaagctt taacattcac cagtacaaat 120
aaatagtttc aatggaatag gtcgaaagta aagggacatc actagagtaa atgctagacc 180
ttccctctcc ttttattttt agcaacagca aagcagaaac taagatctac aagtgatcaa 240
agagggtgat ccattcagtt tctgtgtaga caggaataat aataatacct tttacatatt 300

<210> 1256
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1256
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gccaataatg gtctctgaat tgattcagac attcacacag cttgaagaag atctaaaaga 120
tgaagatgag tcattgagaa gcaccaacaa agtaaacaga acgaaagttt cagtcccgga 180
tgcaaatgga ccctcagtgg gggagatacc ccagagtgaa ctcatcttgt atttatcagc 240
ttgcaaattc ttggacacag cgctttcttt tccacctgac aagatgccat tatttcaaat 300

<210> 1257
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1257
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tgccgtcctt tgaagggaga acctggggta gggttcgagg agcctggcga gaactgtgca 120
cctcctcggg aggagcagcc ccctcctgtg ctgctttccc cctcccttca atatgctggg 180
gcggagaccc tggcctccaa agtgcaattc cgggacccca aatcccagcg gacgcaccag 240
gctcaggtgg cgttccaggt gtgtgtgcgc cctggctcct acaccccggg acccccttcc 300

<210> 1258
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1258
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gacttgaacc caccattctt gnaacttcct tgatatctct aattatggtt taggtctgcc 180
agtttggtat ggagcagaaa agaagatgta agctttctgg aggtagtagc tgctacaggc 240
atacantata tnatctcang caatagcaag tccaagtagg actgatacag tatacacaaa 300

<210> 1259
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1259
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agaaaagagc tattcactac ccgagactat aagttttagc tgataaaaac acagcctcat 120
caatagctat tgaatgaagc cacttgctga gtcagtaact gaatgtctat gtatgatatt 180
tccagtatca tgattaaaat ggagccccga aatgtcatta taaggcctag ttgtggactg 240
ggggcccaga tggccaagtg ggagcaactc tgaaaccatt aaataggagg agagagagaa 300

<210> 1260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1260
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aaagtctagg ggtctcagcc agtataattc ataatccagt gagagacaaa aacatgtaca 120
caggctgtga tgagtactgt acattggcaa atgtgccatg ctactagggg atggatgaga 180
tcacagttta agcttgggaa gaatgagtga gacttggcaa agaaggggg acaagaatat 240
tatcataaga gtgaagaaag ttgggggacc tcaagtgtaa gagaagagaa gaacttgctg 300

<210> 1261
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1261
atgactacca ttatttttct tccttctatt ggtttaaaat atacttatct cttccactgt 60
atgttcctgt gttttattgc atgggaaaag gtaataagtg tcatcaataa cagccatctt 120

aacatgctgc aggaactgtc aagtaacagt gattattgta aaaaacgagc tttctaattt 180
ccttgtcgct tacagagtaa tctaagtgaa aatttccaac gtcctatctt tacaaagaaa 240
caaatacatt tatttttcc tctaatggaa gaacttatgt acatgattcc tacttgatgg 300

<210> 1262
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1262
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ggaacgtctt gggaaagggg agagcttgac ctccatctag gtttctttta tctggagaaa 120
aagaacactt ttgaactatg taatgcttcg ccctgaaagg caagctaacg ctaacttccc 180
aggtgacagt agcaggaaca aggaagggta atgtttccat gacagacact tgcttccctt 240
gggacaagtc ccagaagaac tacctgaagc accaaagctc cccaccccag cctggtggca 300

<210> 1263
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1263
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accataaagg tttaaaagaa aataggggca caggctgttg aggtttttat gttgttatag 120
acctttttaa attatgttag agatgtatat aggtatttaa aggtcactgg gagcgtttct 180
gattcccggc cacactttgc atttcaacac tcagcccgga aagatgctcg ttcggttgtt 240
ggacctcttt cactccctgc gtgtaagaag gtgaatcacg tgggaaaaag tgatccttag 300

<210> 1264
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

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cggtacatca tcaaaaaaga ctttttgga ctggatacta attctgcgaa aagtaaagat 120
gtataggcat ctggtgtttc agcatacata actgaagcat gtgaaacagt atcatcctcg 180
ttagtagagg aaaaccaaaa ccctttcttc cgtcaaaatt ggatttgtaa ttaaattgta 240
agcctcgtag gatgtatgtt ggagatttta agtctttcct tcggttctat gcaaaaaa 298

<210> 1265
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1265
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gagtcctgtg tgcacagtaa tatcctgggt caggtaaaat ccaggtcttc aagttttaag 120
gatttttga agaattcggg cttctttaag acgatccatg cccaaatcca caagcttgtt 180
gacagtggat tacagtttgt gtggcaaagt ccaagttgtt acactgtgct ttaaaaaaaa 240
tcttatctgc atgtattgtt aacttagaga ccatgagatc tatttatcag gaccaggaag 300

<210> 1266
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1266
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ttgtgatgtt tgtgtctcac gtgtccgtgt gaagagacca ccaaacaggc tttgtgtgac 180
agggcaaggg tagaaatcat gttccagaac tcagtgagag ttgtaggcat gaaagaggag 240
ccttctcaac aggagctgtg gccaaacaag aaacaaggca ggtaagaagt ttgatagctg 300

<210> 1267
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1267
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gaaccatctg gaattcacag gcctgtcatg agagacacga tgagaagtcc ttaaaggtag 120
atcactgatt cacaggggag caggcggagg caagggtgag tcagtgcttg gaactcagtc 180
atccagattt ggctctggaa acttctgaag ctgtagcctt tggggatccc tgactgcgag 240
tacaggaagc caacgctatg tggtcttctg gaaactcatt atctttttca ctggtgctat 300

<210> 1268
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1268
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cggcagggga gcagctgcag cagcaacacg tctcttgcca ggtcttcccc gagcgtctgg 120
cccaggggaa tccccagcaa gggttcttct ccagcttctt caccagcaac cagaagtgcc 180
agcttaggct cctgaagacg ctggagacaa atccatatgt caaacttctg cttgatgcta 240
tgaaacactc aggttgtgct gttaacaaag atagacactt ttcttgcgaa gactgtaatg 300

<210> 1269
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

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ctgaggcagg cgaattgctt gaacctggga ggcagaagtt gtggtgagcc gagattgtgc 180
actccagcct gggtaacaga gcgagactcc atctcaaaaa aaaaacaaac caaaaccaag 240
ttcccactgg tgatgcctgt ctgacacgtt ttggtattta gtaggaaatg aagtgtttcg 300

<210> 1270
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1270
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ggagagccat tctcaaatct gatcctggac tgagctcgag agctgggttg agagctgggt 180
tgatcaaagt tgggattttg ctattattgt gacaaagggt ccagccttgc agtccagatc 240
ctgaaaggcc tgggacaagg ccaggtaatt tggggagtcc gtcctgcatt gtgcaggatg 300

<210> 1271
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1271
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cccatctttt ctttccactt gtttttttatt tttatttttt tttgagacag agtctcactg 120
tcacccaggc tgaactgcag tggtgtgatc taggctcact gcaacctcca cctcccaggt 180
tcaagcaatt atcctgcctc aggctcccaa gtagctggga ttacaggcat gtgcaactca 240
cccagctaat tttgaatttt tagtagagac agggtttcac catgttggcc aggctggtct 300

<210> 1272
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1272
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accacctcat gagtctaaaa acaatgataa acccagggaa gcttgctgaa gagcatcctc 120
catttggtta ttgctctttg tctaggaaaa tcagactcag ctgtgaattg tggaccaagt 180
ggtgcagaac tcattacttt gaacaatgcc tcctcggcct gggaagcatg ttctctcttc 240
tcactagcag gggcttattc caggctggct ttggtcacaa ggaaaatcat ttagacacag 300

<210> 1273
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1273
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tgggtgaatg tttttataca tcactcaact tccctcgtcc taaaaggaca cctaattttg 120
ttactattga aaatttttat tttggtggcc agaatacgaa atcgggagag gtaacccaaa 180
cagttgtctt aggaaaaggc agattctcag aggcaatggg ctatcaacaa aataggtgct 240
aagcacattt gtttgtaatg atcattcata taatttagaa gatttatggt aacagtttat 300

<210> 1274
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1274
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ccaggaggcc tgcctggagg cggtgctacg tcgactacag ggacagtgtc ggcaggaact 180
ggccaggctg gtgggagccc gccctggtct catctggatc ccgccacctg gacgctgagg 240
gcctgtcgac gggccctcgt gtgggaagcc tgccctggcc cagcctggct gggtcttgga 300

<210> 1275
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1275
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catcaaccat aatttttacg tgctctaata tgtttcttca cagattcatg ccatgttcag 120
tttaaaagag tcctgttctt ttaatacatt atctttgaaa tgcctcttac tgaggaatga 180
ctaaacttct tctgaaatgt gctctctgga ttgaagtcaa gagtacatgt tgcaacaaag 240
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<210> 1276
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1276
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caagtcctcc taatgggatc ccagaatgcc catggaggaa gcagcatgtg cactgtgctg 120
agtgctgagc aggatttcaa gagagcaaag gcagagatgc tggacagggc agcacaggag 180
gacgagtgtg catggtcact ctgagcaggg ctggttcctg ggctggttgg agcacagcat 240
ggggaactga aaggcagaca ctggccaaga aagtccttgt gcagggcttc agaagtgagc 300

<210> 1277
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1277
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accctcatag gcttattata aggctcaatt atgataatgg tgtgaaaact ttgaaaatta 180
gacttcagag aaattgagtt aatctgggat tatttatcaa tgtcttagta accaaaagtt 240
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<210> 1278
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1278
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caaatctcaa cccaaacaac aattgttatt tttgtacatt cccttccaga ccccatttgc 120
gagctctact gcattgccta tttgcaaatc ctagtagcac aagaggacaa ccacaaacaa 180
cctgacattc gaagtcacac aagcgcaagt ttttcccatc atgcctagtt ggcaatcatc 240
ggctgagcag taaatcagaa ttttgtcccg aatgttactc acctgttagt cgcagccctc 300

<210> 1279
<211> 280
<212> DNA
<213> Homo sapiens

<400> 1279
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aaaaatacaa tggcttattt aaaatgtccc tatgcatggt gaaatgttaa ataccaagtg 120

gatgaatggt tctcaaatat attgtaatgg agaattattc acatgcatct attgtttaaa 180
ctaataagta aaatagactt ccttttttctg ttctgtttta aatgtgcact aaaattacct 240
gcttgtggtt aagcatgggc tggacagttt attgattttt 280

<210> 1280
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1280
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aagtgtgcac caccatgcct ggctaatttt ttgaattttt gtagtgatgg gatctcgctc 120
tgttgcccag ggtggtctcg aactcctggc ctcaagcgat cctcccacct cgacctccca 180
aagtgctggg attacaggtg tgagccacct cgcctgggcc cccttctcca tatgcctcca 240
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<210> 1281
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1281
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tgatgtttta gccaaccccc caggaccaga agaccaggat gatgatgacg atgcctatag 120
cgatgtgttt gaatttgaat tttcagagac ccccctctta ccgtgttata acatccaagt 180
atctgtggct caggggccac gaaactggct actgctttcg gatgtcctta agaaattgaa 240
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<210> 1282
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1282
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gcaaagccag ccaaagggga gtgagagggc agtcaagcgc ctagaagcca aggaacccca 120
ggaggatggc atcgggcagg tgcctcctgg tgcccagaga caaaaagatg tgtgggaagg 180
tgacagaatc aagcggtaag gtcagtgctt tgagggagca ggcaaccacc agcctccagt 240
gacacttgcc tttcacaggg atcctggagg tccccatttg ggaaggtgga aaatctcagt 300

<210> 1283
<211> 296
<212> DNA
<213> Homo sapiens

<400> 1283
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tatccaaatt agacagtcaa ttccattaaa ataagaagtg agaaaaacaa tgttgggcat 120
tgaggtgtaa attttgccca gatgtatacc cagtgtgaaa tatcttctaa taaaaatata 180
tttggctctt atccctgcac atgtagaggc ataaaaattg gtaaacatgt cccgctgtgt 240
agaactttaa aaaaaaggca tttttgaaag tgttgagtgg cactgataaa ctggtg 296

<210> 1284
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1284
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tgctcctgtt tgggtccagg gcccctgggg gcagaccggt gatccttacc agtggaagcg 120
agccatcgag ccattggcag aaatcctgct gaatgtcatt cagaaacctc agcccatggt 180
cgccctcctg tgcccctctc ctgccggaaa gccctgcaac attctagggt tgggggcagg 240
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<210> 1285
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1285
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ctgcctgtaa gtgtagacat gcacactcag ctgaccttac tgttcaaaag ctggagaaaa 120
agaaacagct ttcatacagt gcaaactgtc tacgtctatg taaaagaatt tgagaaacat 180
ggcagtagcc attgctaatt aatctgggta tgtgtaaata gtttaacttg atttttgact 240
ctggtgtttg gatctatttt aagatcgatg gagttaattg cttcatgaca gttcttatga 300

<210> 1286
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1286
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gggcattgct tggttcgcgt ggtagcagag gagcttgaga atgttcgcat cttaccacat 120
acagttcttt acatggctga ttcagaaact ttcattagtc tggaagagtg tcgtggccat 180
aagagagcaa ggaaaagaac tagtatggaa acagcacttg cccttgagaa gctattcccc 240
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<210> 1287
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1287
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gctccggatg gggaaggaaa aggtctggtt gcctaaccac ctccttcctc atccaaccct 180
gaaaccccca ggatgtggaa gaaaaacagg tagcattttg ctttcataat gcaaagacct 240
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<210> 1288
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1288
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tggtgcctcc tccagctact actaccccca ttagtcacct agtaaaaaat gacgacattt 120
catcacctgc acatgaaccg ctttcccccc atttcttaat catgaatttc tgtgtcttaa 180
attattaatg gctaagacta ggtctggcag ttaatttctc tctcctggat ttttggccca 240
actcgagtat ttttgaaaaa ccgacacagt attttagggg agcccaaaaa ccatgatggg 300

<210> 1289

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1289
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cgcagacccg agaacaggag cttctacctg gccctctaca agcagatgag cttcctggag 120
aagcgaggct gcccgcgcac ggcgctggag tactgcaagc tcatcctgag tctcgagccg 180
gatgaggacc ccctctgcat gctgctgctc atcgaccacc tggccttgcg ggcccggaac 240
tacgagtacc tgatccgcct cttccaggag tgggaggctc atcggaacct gtcccagctc 300

<210> 1290
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1290
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agagttagac caagctgcag cttttgaggt gaaaggggat ggaagaaagt actgttactt 120
ttccacttag aatttttgga ctttgttctt aatgaatagg ttcattttca atttcaaagc 180
aaagtgttaa catttttgaa atttgtctca attctaaagg ccaaacttaa atatgtctcc 240
tcctactggg gcatggagca agttattcat caaatacaga ttctcgcatg gaaaagaaag 300

<210> 1291
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1291
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tctgttccca cttctcccag aatagcctag gatgggcaac catgtaaaat tcaataaaaa 120
tccaaccttc taactaactc gtggtgttgg agagtattaa gcatttgaaa agttcaggta 180
gaattttcat ccttttgag ctctttccta gctgctttgc tgtgatatat ctgtcactcc 240
agatgaggga gtagtggtgg aaaaggaatg cattctcaga ttcattgttg gtagttcaaa 300

<210> 1292
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1292
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acgataaaaa taaaaatgta atttatatat ctgaatcagg tctgtatgtt atgatcaatt 120
gctcagcaat ttcgggcagt tggtttgatg gttatgtagt aatgtagcct gagagcagaa 180
atacagagcc tctgggctag agaaagtata aatggcatcc taggctatgt agggttacag 240
ctcttcagaa ggaactttca ttttcattgt gacacatcgt ctacatgttg tagaagaaca 300

<210> 1293
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1293
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atgtagcatt tatgagcctt aaaaaacaaa caaaaaacct taagatgtta aatttattcc 120
aaggattctt ttttttgtt gtacatgaat gttcatatca ggtttatttg taatagccaa 180

aacagtatac acctgaatgc ccaccaacaa gtgactagat aagcaaagta cggtacatgg 240
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<210> 1294
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1294
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gtcttgaggt cttgacctct tgacatatac actgaaaaaa atgggggttg tatgtatgtg 120
tgtcctaccc aaacctgtgg ccgccacttt tgaattctca gattgccctg aattttgcca 180
cttttaaata atgtgctgaa taagctcagc aactaaaaac cattacccaa gaacgtttct 240
tgtgagtgag ctgatttatt ctgattcatt atattccttt tggtagattt tatacccctt 300

<210> 1295
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1295
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agatgctttt cccaggcaca aattgggaat ggaaatcacc tagttccgtt ccctctgaca 120
gctgtaatcc agagagctaa gctgcttact tcattagctt ggtataagct gacgacagca 180
gtgcccttgc tttatatttg tcagagctag gaaataagcc ttctttttt ctgctgtaat 240
catagttacc cttgaactga aatatcttac atttattctc aagcaggtag ggagaggaga 300

<210> 1296
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1296
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cacgatggga aaagggattc caattacgat ttaacttgta ttttaaagat gagaaaagaa 120
atgaataaga aaatttgttg ctatttttct tcttccaaat tagaatctat atctctaaaa 180
atactttgca tgtttagtaa acatccatct tgaacagaag ataccttgac atcagttcta 240
tttaatactt atggcaatta agagatttag aaagcagagg aaaagaccaa aaaaaagtat 300

<210> 1297
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1297
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gtcctgtgta gcagcaggta gtgtggcttt gagaaaataa aatggccacc ttgctccgct 120
gttctttctt tgtaaaaaaa aaaaancggc nnaacaatnt tggcctttnt agctnggnna 180
ccccnggccg gncaatccct nctnctctcn aagcctcggn ttcctcccct gaaaagtaaa 240
gaaaataact cctaaactgc ctcccnaggc ttgctggcag gatccaagg 289

<210> 1298
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1298
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gcctaaatga ttcattatct taaatgtact aaatatgttg agtaattttt tcttctaaac 120
taacagaaag agagaaccta ggagttactc ccttaggctg gttaaagtga aaggtagcca 180
agtcaaccca gcttgtttcc ttctctcatt aggaaagaac tattgttcat tctcataaca 240
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<210> 1299
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1299
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aatgtcactc tgtaaagagt aaaaaattta ggatgatgat acgatctggg aaaaaaaggc 120
atattgaaga ccacttaaaa acaaacaaaa aaacctatga aggtgcatgc tatttcccca 180
gagctaaaaa gataagtgaa attgtgtttg aactcttaag tggaggtgaa gcagaattta 240
ttagccacca accacataag tgattatgaa gtaactgaga aacaggtaac attttttccc 300

<210> 1300
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1300
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gacttttttg tttttgtttt tgttttaagc agtaccattg tgcaccttgg gaaaattcct 180
gtgttgatct aattttacca tattcttcac tccactgacc actccaatta ggatactcct 240
ggcactcttg gttttagaga ggcttagata tgtggctatt tatcctttgg tcttcagcac 300

<210> 1301
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1301
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ctgttaagaa tcccaaccac acactttcac acactattcc aggttctggc tactgaatga 120
tcccacagct gaggtctatt gtcatcgctc cacttctatt tttagcagca ctaaaaacat 180
tcccaaaaaa aatgtttttt agctttttaa ctgcgattca ccactaagaa attggcattg 240
gaacagtcca cagagcttat tcaaatttca cccattttac atgcactcat ttgtgttgca 300

<210> 1302
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1302
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tctgttctat cttcccatca taaaaaaagc tctgaggaac atgaatacag tgatgaagct 120

cctcaggaag atgagggctt tatgggcatg tcccctctct tacaagccca tcatgctatg 180
gaaaaaatgg aagaatttgt ttgtaaggta tgggaaggtc ggtggcgagt gatccctcat 240
gatgtactac cagactggct caaggataat gacttcctct tgcatggaca ccggcctcct 300

<210> 1303
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1303
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gacgaatcgc tcattctctg ttctttttt aaaaagaaaa gatttcagaa aaaaaaaaag 120
tcgtcttttt ctttaaaaca gtatgaataa aatctggaca gctgtcgaaa aagatatgcc 180
gtctgcattt ttttttaatt tctagccacc accataacta aatagcttga atagaacctc 240
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<210> 1304
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1304
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catcaatcat ttcacaaatg ttctgacttg ttgagcagtg ttcatttcca ggtttcaaac 180
ttaaagtatc tattaagcaa tcttaaaaga aagaacaccg ccttaggaaa aaagagattt 240
gccaaactct tcatacttcc ttcaataact gcttagcaaa cactcttgag tgtcttctat 300

<210> 1305
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1305
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taagatttta tctttgtgta gaatgtggct aaagaaacct tagttgagat tcaagaagtt 120
ggtgtctgtt tctgattctt atcacaactt gctacttagt gtctaccaag tcctccacct 180
ctttgctcct caaagagctg tgaacactga tggcaggagc cggcaccacn ccacnnactt 240
agagancnnc ncanagctgc catacnggcg atcnctgacn tcanacttcc ccctctaa 298

<210> 1306
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1306

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gcttcccctt cattggcatt aatctgggca ccagctctct ccatagcagt gacttccctc 180
accactctca tctctcagcc ttgccttttc ttcctgacac tgtcgccccc tcctctcagg 240
agacactgcc gagggccacc tggcagaagg ctgagttagg cagcagggcc gggagcgtct 300

<210> 1307
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1307
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actgagattt tggaaacact gaagaattat agcattataa gaattttaaa tttatgagaa 180
aatctgagac aggggcagag atggctgatt ttgatcttgc tggatcttag accatgagaa 240
tgacaggcct gaagccctga aatctcacct cagggtggag tgtcagactt ggcaactttg 300

<210> 1308
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1308
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actgttctca accagtagaa gtagcttggt aaatggctca tgaaaatggg aggcacgcct 180
ttaaagataa tagaacaaga aagtacgttt caccatgaaa agccgttcgt catgatctac 240
tgagatggaa cataatgtaa actctgtgac tcagtggttt cattcttaag tgttgtgtac 300

<210> 1309
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1309
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tggagcaaca gtacggtcag tctgcatctc atgctaactt tttgttggga atcataacca 120
ttcctacggt tgcaactgga atgtttttag gaggatttat cattaaaaaa ttcaaattgt 180
ctttagttgg aattgccaaa ttttcatttc ttacttcgat gatatccttc ttgtttcaac 240
ttctatattt ccctctaatc tgcgaaagca aatcagttgc cggcctaacc ttgacctatg 300

<210> 1310
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1310
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cctccctgag ggtcggctgg gtgaggagag cccttccttg cacaagcgaa agagggaggc 120
tcctgaccaa gaccctgggg gccccagagc tcaggagcta gcacaacctg gggatctgtg 180
caagaagccc tttgtggcct tgggaagtgg tgaagaaagc cccctggaag gctggtgact 240
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<210> 1311
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1311
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agggtggctg agggcacagg tgcctgggtc tgtcccacgg ggcagggctt tggggctgtg 120
atgctctggg aagccagctt gggtcctggg tctacagagg gccctggccc cggagcccag 180
ccagctctgc ctctctcagg gcctggagtc ctgggggagc tcagccagct ctgcctttct 240
cagggcctgg agtcctggat gaatcctgca ggtttttggt tgcaccggcc cagggaggaa 300

<210> 1312
<211> 132
<212> DNA
<213> Homo sapiens

<400> 1312
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aggcttacgt actacttgtt tcaaatgtgt caaatacaaa aatggtaact aggttgacag 120
atactttgta tt 132

<210> 1313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1313
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atgcatttca gaaacaaaat attaacgtaa acagaaaaaa gagaaagcaa tcatgacaaa 120
gcctaagagg gctagtggaa tgctagaatg aactcattta ccttcctttg atatttaggg 180
gctctattgc ctgctaattt catcactgtt atttttctta cctcttatct ttttccctgt 240
agttattatc agcctaatat tcattcattc attcatttac ctgagttttc aggcttgtgc 300

<210> 1314
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1314
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ggaatctcct gttaatcagt accctggtga ttttgatcca ggtcatcaag accatggctt 120
ccatcgtagg cagtcacact ctttctctct tggatcattt gctgtgggga agcaaactgt 180
catatgagag gacactcaaa cagcctctgg agtctcattt gctaaggaac tgaggactcc 240
agcctgagaa ctcaggcaag taactgaggc ctgccaacaa ccatggagaa agcctggaag 300

<210> 1315
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1315
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tcagtgttaa ctcattaaat tacttgataa gaaccagctt tatattgtaa gatgtgtaag 120
cagtgggagc aatggtggaa atagcctttc tattttattt acccaagtct gtgtactcct 180
catccttacc agggccccta actgatcttt ccactaaatt atgtgtgtca cagcgaaatt 240
aaaattactc ttccaaagtg caactctaat catggcactt aagggatttt cctttactta 300

<210> 1316
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1316
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actgctgaaa agaattatat gtttttatca gataatctca acatttcaaa agacaacaca 240
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<210> 1317
<211> 55
<212> DNA
<213> Homo sapiens

<400> 1317
gcatcctgtc cttgggaacc aatttctcat tattgtcagc cggtcagctg cctgc 55

<210> 1318
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1318
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ggttactcca ttctgctatg acaacttgtt tcaaatgtta atttacatag gatttttat 120
aagccattaa ggcatatgta tagtatatca gtaaagatgg atggtgcata tataaatagt 180
cttctgtaat agtgattgga tttacttctg gattatnaga gactcaaaat nttccccanc 240
ctgtctctat cctttcncag gttgatccct tgtcatgatt tttcattacg gtggttcagg 300

<210> 1319
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1319
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agattctgct tactagtcag tccccaggcc caggccactc gcaaggggag gacattacag 120
gaggcgtgag tataggtggt gtgatctgtg gggaccgtcg cagaggctgc ccaccacaag 180
gggttaaaac ctataaaact tcgaagttgg atttaataat tttcaattac taggaaatag 240
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<210> 1320
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1320
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gattggttcc aggatggctc aaggtcctga tataaaattg cgtagtattt gtatataacc 120
tatgtacatc ttctcgtatt ctttaatctc tagattactt ataatacctg atactatgta 180
gatgctatgt aaataattgt tatactgtat tattttcaaa ttgttttatt gctattttta 240
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<210> 1321
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1321
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gattttactg gctttctttt agcatttctg tctagtcgaa atgggggcca ggcttgcaca 120
catagacaac tgaatgaatg taaccggacc tattccatct aggctgacct cttgaaagat 180
aggaggggaa gtctaaaaca ggagaaaagt tttagaaatc ctttggatta ggcttaccca 240
gattagtggt atgtaaaata ttatgatatt cttagtgttt caggattatg gattttaagt 300

<210> 1322
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1322
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atcaaggaga ggaacccgtc ccatgcctgc cgtgtgttca ggtggctaga cttgttgttg 120
catctgttag ttccactctt agtacatcat tgtgctgtga ggtgtcatta gccgccgttt 180
aatttttctt ttgtttttag agacagtgtc ttgctctcac cccggcttaa gtacagtgac 240
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<210> 1323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1323
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ctcgggttct ggctacacac gctgcgcctc catacagttt gtcccaggtt tggcagcagg 240
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<210> 1324
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1324
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ggccgagtct ccgactgtct gtgctttcac ttacactcct cttgccaccc cccatccctg 120
cttacttaga cctcagccgg cgccggaccc ggtaggggca gtctgggcag caggaaggaa 180
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agcccaccca gcactctcat tgctgctgtt gagttcagct tttaccagcc tcagtgtgga 300

<210> 1325
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1325
ccttgggcca gacccttcc cctggggtgc tgatttcaca cctgtaaaat gaagaagttt 60
gacttgcaca gtgcttttct tagactgtgg taaggggtgg atgtgggggt agtgccaaga 120
ccaagtgaaa gaggcttctg gacctccatc cttgcttcag ccagagcagc gtgggttcat 180
ttcatttttg gattttggtt tgtgggaaga aagggttctc ttgccggtgt gtgtgtttct 240
gataaacaaa gaagtgtgga agtggctgaa tgagatgacc caaggactct ttctgggaag 300

<210> 1326
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1326
tttagagaaa gctggtagct aggctgttca aggaagggcc tctgtgagaa aggggatggt 60
tggctgggtg tggtggttca cgcctataat cccagcactt tgggaggttg ggagtttgag 120
accagcctga ccagcatgga gaaaccccgt ctctactaaa aatacaaaat tagcccggca 180
tggtggcaca tgcctgtaat ccaggctacc tgggaggctg aggcgggaga attgcttgaa 240
cccgggaggc agaggttgta gtgagccgaa atcatgccac tgcactccag ccgggcaatg 300

<210> 1327
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1327
cagctactcg ggaggctgag ggcacaagaa ttgcttgaac ccgggaggca gaggttgcag 60
tgagccgaga ttgtgccacc gcactccagc ctgaatgaca gagcgagact ccacctaaaa 120
aaagtaaaag aaaaaaaaga ggaagaatta gcacatttct attacagaat tggacttgaa 180
catgcaaaat catgtctgga tttctcagtg aaaagctgtt ttacgttagt ggactcttct 240
aacattttga aatggtgatc tggatttggg atctggctat cactgaccca ccttgggtct 300

<210> 1328
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1328
ggcaaggagt ttgaatttta ttcaagaatt ttattcaaga attttattta ttttattctt 60
gaattttatt caagaataat ggctagccat tgaagagttt aaagtaggga aacagtgctt 120
tcttattcac attttgcaaa gttctccatg ggctactatg tgaataatca gtccaagggg 180
gaggtaagag tagaagttgg gagactagtt acaaagtcat tgcagtttgg agattatggc 240
accttggact gtaggtgata gggatggaga tgacgataag tgaatatatc cagaaaatat 300

<210> 1329
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1329

gtcagaatgg ggaaagtggc aggatgcagg caaacatgtt cttaatttag agacacgatg 60
aaggctcagg actttcctag gcagataaaa gaagaaagaa gctgcttttt gaaaagaggg 120
atcaagatta tgacaaaaag ggagattcag ccatcagcag aacccaaatg agagcctaca 180
aagagacact gtctactcag agtacatctt cagacatcca gggtcccaag ctactgtgtt 240
tactgttagc ccttatccat tgttatgtct tactgcttta taactcttct ttaa 294

<210> 1330
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1330
gtggatacct ctagtgcaat ttataagcaa tatcgtttac aaaaggttac agagaagtat 60
ccagaattgc agaatttacc tcaagaactc tttgctgttg acccaactac cgtttcacaa 120
ggattgaaag atgaggttct ctacaagtgt agaaagtgca ggcgatcatt atttcgaagt 180
tctagtattc tggatcaccg tgaaggaagt ggacctatag cctttgccca caagagaatg 240
acaccatctt ccatgcttac cacagggagg caagctcaat gtacatctta tttcattgaa 300

<210> 1331
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1331
actttcaaca tttcatggat agaataagta atggtgggtt agaagaagga aaacctgggg 60
atctagttct tagctggggt ggacaatttt gaagctcgaa tgacaataaa taccagcttg 120
gaatgaactt ggaacaaaca tggatggaaa tctggggtca agggaaaatg gcagtttcag 180
gggaatatac caggttaata aatccnggaa aaactgnttg gtttgnnggg gnctccacca 240
cttggaagtt gctgnaanna ttgatgnaaa gaactctgaa annaaaaggt gttgggca 298

<210> 1332
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1332
aggatatgtt gcactagttg ttccttgtga ctggaatatt ctctgcccaa actttgaaag 60
gctagttagt tacttctcat cattcgggct taggttaagt gtttcctcct tagagttctt 120
ccttgattta tcttcccccc agtctaaagt gccagtcaca ttaatctgtt ttatttctcc 180
atacagcact catcactgat tttttaaaaa tctattttgc catctttctc tctcactgga 240
atattatgtg ctcatgaaga agctccttgg ctattttgtt cctgatcgtc tgcgctgcat 300

<210> 1333
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1333
aaaaatttta tggacttcta tggatatttc ttgatgctta gagatttgtt tttttaattg 60
caaatgtgaa tagtctattt acaaatgcta ttacatatgg agcgggcctg tggtgtatgg 120
cactattcct tggactaatg gtacccaggt tccattctct gctcagctcg gaggctctag 180

acaaagcccc taaaatgctg tctgcttcag tctccttaat ggtgaagtgg aaatgaatac 240
ctactgtcac ttaactcatg gagatgctgg actgataatt agatcatgta agagcacttt 300

<210> 1334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1334
ggatttctcc tccttccgcg ctttctgcgt gacactggct gtcagctctg ggctgggctt 60
tctgggggcc acacagctgc tgaggcggcg ggttgaggcg gcccgaaagg acccagggtg 120
ctcaggcctg gttgtggata gcggcctgtg tggagaggag ctgcttgtag gcagtgagga 180
ggcggacagc atcaccttgg gccggtatct ccggcagctg gcacgccatc ggaacttcct 240
gtggttcgtg agcatggacc tggtgcaggt gcagtggctc acgcctgtaa tcccagcact 300

<210> 1335
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1335
caagaagaaa catggcggct atccttctct cacatcgaaa aggaaatttt gaacaatcat 60
ggaaaatcta aaacgtgctg tgaaaacaaa gaagagaaat gttgcaggaa agattgttta 120
aaactaatga aatacctttt agaacagctg aaagaaaggt ttaaagacaa aaaacatctg 180
gataaattct cttcttatca tgtgaaaact gccttctttc acgtatgtac ccagaaccct 240
caagacagtc agtgggaccg caaagacctg ggcctctgct ttgataactg cgtgacatac 300

<210> 1336
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1336
aaagcctaac tagttatgat aaatgtatcc gtaagtaaag taattaagcc agtttggggt 60
tggcagagga attgtgccag acatctgtgg attttgctac ccagcagcat tcgctcttct 120
cctggttgtg gggccccagc cctgttgcta ttacctggaa ctaaaggtta agatgatggt 180
tcaaagatga agccaccatg gaagagagca tagcggacag atggagagaa actgcatcca 240
ggtgacccca tttgtactaa acctggttac ctggtttttc tttagtacat atgccagttt 300

<210> 1337
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 1337
ccctcttaaa aatacaaaaa tcaaaaagag gaaaataagt taaattaagc ccaagtaaca 60
aaaatactgg aattattaaa acgtatagta tgctagctat ccttttaaat tatgctaatt 120
ctcttcttct gaaattatgg tcacactata tactatagca tttcggtttt atcctttgat 180
aaaacttttc ttttttcttt ttttttttga aacagggtct naccccgtcg nanaggctgn 240
agngcagggg caaagnctcn actnantgca gccttgacct ccnggnccca gg 292

<210> 1338
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1338
caaagtcata ccaaaacttc acttaagagt ccctacccct actccagtgc ttatttcatt 60
atctagcaga atgtaccttt atttgattca ctatttacca ctgattaaag tggagcgtct 120
gtggagttat acgttacttt gtagactttt gtctagtgaa atacaaaaga caaccccaaa 180
ggttataatt tttttgccta tagaacattt caggaaacag gagtaggatt tttgtctata 240
atatagcaaa cttgcttcaa cataccttcc acaacttaca aatgctcttt gaaccagcct 300

<210> 1339
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1339
gcatttggcc cattggccgc attctgctga cccatcacct tggtgctttt tctgcttttt 60
ctctgttgtc ctctgtgtgt gttcctttgt cctgatcctt gtcaccttgt gggtccaaaa 120
tggttccact agcctcatgg agcctggcct tacattgcag agtccaaagc aggagctgag 180
ggaaaatgaa aaacaacttc ttcatcaccg gaagcccagc aaacttctcc ttaaaaatca 240
ctggtcaggg ctgggtgcag tggctcacac ttgtaatgcc agcactttgg gaggctgaga 300

<210> 1340
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1340
ccctcacgag acctgcctca ggccatggga cagttgcaac agcagttaaa tggactgtca 60
gtcagtgaag gtcatgattc tgaagatatt ttgagcaaaa gtaacctgaa cccagatgcc 120
aaggagttta ttccaggaga gaagtactga gccgagaaag ctttgaggaa gacttgtctg 180
tccccacatc tggggatagt aatgcacaaa atggtggagc tgaagagggg gatggggcgg 240
gcgaggggtg cacagcggga aggggagtgg tggtctcaca atactgtgac tctgagtaac 300

<210> 1341
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1341
ggccttccag atcgtgctgt cccacctacc tgcaccgccg aggccttcca gatcgtgctg 60
tcccacctac ctgcacatct gccacagctg gccctgggcc caccccacga agggcctggg 120
cctaacccct tggcctggcc cagcttccag agggaccctg ggccgtgtgc cagctcccag 180
acactacctg ggtagctcag gggaggaggt gggggtccag gaggggatc cctctccctt 240
ggggctgccc ctgtggaggg ggatcccgcc tctagaacta tagtgagtcg tattacgtag 300

<210> 1342
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1342
aactgaccta agcctcagtt tttcagatct gtagtactta ctttacatga ttgctctttg 60
aattgaataa cataatttat gtgaaaacac ttaattatga atgctgtaaa actatcaaag 120

ccattaatat gtgttatagt agcatcatac attttgcagc ataatccaga gaacaaggag 180
ttgttaacaa gggagaggaa gataatctgg ttgggctagt attatactct caggtgctac 240
tgacttctta gatgaccttc aagatgttag tacaactctc tacttggaga tgctattttc 300

<210> 1343
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1343
atgttttggg aaatagcttg cgagaggtaa gaaggattgc aaagtttttc caaaatattt 60
tatgaagtta gtgaagtcag ttgaaatgtg tatttaaaca tttgaaggga tacagttaac 120
atttttttaa tgagaggaaa ccattgtctg tagttcagaa ataagatgga gtgttttact 180
tatttaaggg gtaatttaaa aagtaaacaa aagcattggc ctacaagaga aaggtgatgt 240
tggattataa gtgctttttc taatcgttaa tattaatcaa caggtgagta tattttccgt 300

<210> 1344
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1344
tcttgactga ggttcccatc tttcttagtt ctcttaagga tgtgctattc tattctagat 60
gcataggagg gaagttaatc cagtcttaga tcagcagggc tgagttcttt ctcagaacca 120
tagttgaaaa agcctaaata gaattttagg aaagttctat ttagaaagaa actaagaatt 180
atgattaagt tttggcctaa gcaacttaat aggcagtggt atcatttatt gagaagcaaa 240
tcagataaga agcaggttat ggggcttggg aggaggtaag ggcagaaagt tgggtattct 300

<210> 1345
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1345
ccgatttaca gattgaagcg gtaaattagt ggttttatgg tatttctgta aacagggata 60
aagtggaccc tgacaaattc aatattgtct gaagagacaa tctattctgg ttctgttgga 120
cttcagggta ttttttcttt tttgtaaaat gaaaactaca aagaaacctg acttttcaat 180
tttttataca tgtaattttc tagaaatcta ggaagtcatt tacacatcct tatataccat 240
gaggggcaaa agtaagcttt cttcctccca aagcaaaact ctttttcctt aaggagctgg 300

<210> 1346
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1346
ctgaaatgtc aaacacggcc acctaggcag catttacaag caagagtcca ctgctttttt 60
gatgtatatc ttaagcgccc ccagtgaatg aacagcatat aactccacat aaaaatcatt 120
aaatgtaatt gacttccaga gcaggcagtt ctgttgtatg cctctggaga aggctggctg 180
aattggaatt ggtctgtacc ttctgcctat catgtacatg aggtttttgg gcaaagagaa 240
ctttccacaa aataagtcca aaaattatag atcatcagac aaccaataac atattgatga 300

<210> 1347
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1347
cttgctcatc ctcatttggt aaactgctac gttaaatgtt tcaggtatgt ctgattgacc 60
tgtcctgctt ccgagaaatt gatgagctaa taaaaaagga aaccaaaggc aaaggttctt 120
tggaagtact caatctgaaa gatttgaaga aggagatgag aaatttgaat gacacccatc 180
agtctcttca cctctaaaac actaaagtgt tttcgtttcc aacagcactg tttcatgtct 240
gtggtctgcc aaatacttgc tcaaactatt tgacattttc tatctttgtg ttaacagtgg 300

<210> 1348
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1348
gggatccctc cctccacccg ccccccagcc ccgggacccc gagtgccact ccagcctcac 60
cccctgccag tgccactcct agccagcgcc agtgcgtctc cgcagccacc agcaccaacg 120
actccttcga gatacggccg gcccccaagc cagttatgga gaccatcccc ttgggggacc 180
tccaggcccg ggcgctggcc agcctccgcg caaactctcg aaattctttc atggtcatcc 240
ccaagagcaa ggcctccggg gctcctcctc ctgaggggag gcagtccgtg gagctgccaa 300

<210> 1349
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1349
aagaattgna cgactcttat tgatgagtgc aaaatttttc tatagatttg aaagtcacta 60
ctaatcatga ctagctgatt ataataattg agagtaaact tttaaaatta ttaaatatcc 120
tgtgaaagtt ggagcacagt aaccattaac cctaaatttg atactatgtc catatgaatt 180
cagatcataa tagtgctcta tcatgtgaaa ctactaaagg atgtatagag ttaaatatta 240
cgtatccact ttaatgaaga ataggtatta cacagtaatg gttgtttaaa aaaatttttt 300

<210> 1350
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1350
gccctgtgtt aatccaggtg agaacaggta gtacccaaat tagggcatgg tagcagggat 60
gcagaggaaa gaagaggagt aggaactatt tgggaggtag tattactagg attttagctt 120
tgaagggttg agagaaatgt caagcctaac tacaagcaag gtttctagta tcagtaactt 180
catatcattt gaaatacana nattagcaat caatgtatan ancntnctgg gctaancnta 240
gcatgaantc tgacttcant gtagcattga ggagggtcct ggcctcagat actgcaccag 300

<210> 1351
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1351
agatactgta tatttgaaca agatttttt ttatcatttc tatagtcttg gagttcattt 60
gtaaggcagt gtcttgactt ggaaaggatg tgttaatggg gtgactttgt agcatggtat 120
gttgtcttga gttaactgta gtgggtgggg aggtccaatg ccctccgcaa tgcccttcat 180
ctcctgtgtt gtcctgtacc ctgctcagct ccatcctggg gttcagggaa ggcacacttc 240
ccagcccagc tgtgttttat gtanccgana tanagngnng tccgattcaa nntcatncac 300

<210> 1352
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1352
gctattccga atagccccag gtgatccagc tcacaccaac gtagcaatgg aagtcagcac 60
ctctgctggg ccaaggccat gcttccccag cctgtggctg cgcctctgct gtctctccgg 120
gtctcacctg ggcgggaggc tcctctggag gccaggacct gccttgtgag ggtgcccttg 180
tgggagaggc gcttgcccaa acctgctgtt ccccgggggc tccttggtgg cccccaggac 240
tggagctctc tgccagagtg cccctcccca gaggttagga ctcccatgac cctgtccct 300

<210> 1353
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1353
gctgagtatt tttttcaagt gtatcatttg cctgttaact taaaattcta ttttccccct 60
aattctatgt cccagttttg gttagtgtgc tctgggattt ttgacccatt ccatagtaat 120
agttattact actaccacta cagtaaattc ttacaagaac tttccatgtt ttttgggagg 180
aggaggagga gtagttacat tcaggatcat atacataatt gtttagcttc agttctgtat 240
ttatatatgt cacttgtaac tgactgggat acgttctgag aaatacattc tcaggtaatt 300

<210> 1354
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1354
acatggacaa cagtggcagt ctcaacgctc aggtcattca ccagctgggc cccggtctca 60
ggtccaagat ggccatccag acccagcagt cgaagtttgt gaactggcag gtggacgggg 120
agtatcgggg ctctgacttc acagcagccg tcaccctggg gaacccagac gtcctcgtgg 180
gttcaggaat cctcgtagcc cactacctcc agagcatcac gccttgcctg gccctgggtg 240
gagagctggt ctaccaccgg cggcctggag aggagggcac tgtcatgtct ctagctggga 300

<210> 1355
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1355

gattccgagt gtttactaag cctgttgacc ctgatgaggt tcctgattat gtcactgtaa 60
taaagcaacc aatggacctt tcatctgtaa tcagtaaaat tgatctacac aagtatctga 120
ctgtgaaaga ctatttgaga gatattgatc taatctgtag taatgcctta gaatacaatc 180
cagatagaga tcctggagat cgtcttatta ggcatagagc ctgtgcttta agagatactg 240
cctatgccat aattaaagaa gaacttgatg aagactttga gcagctctgt gaagaaattc 300

<210> 1356
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1356
ggcatctgga ctaatagtga acgagtggaa tagtgtgaaa ctgcatgcta cagctatgaa 60
tacacgtatt caggaaagac cccaatgatg cntganaact tctactttgg ctncctaang 120
ntgaatncaa ttcacatctc tnagaggntc accgtaaaca gntttggann ctacccttna 180
tntggacana ttganttctc ctgaggtgga tcttgtatng ctctagaaac tangcatcnt 240
caccatgtgc tgaataanag tgtnntcggt gtaatngccg cgcacgtatg nnnacatttg 300

<210> 1357
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1357
ccataagtga cttgcaaagg gcctccccca taggaaggcc tcagcaaatt ttcagtgaac 60
tcaagttcat tgatttccaa tttgtgaaat aaactagagg gcctctctga actacctgcc 120
tcatgagaat gactgtgaag tgtagtcagt ttaaaacaaa cagacaaaaa caaagctaga 180
cagcattaca ggtttctcag aaagaaggaa ggttcaagtt cacattggta ctggtaccac 240
gttgccattg ccctcctaga ctgttctctg caagctttct atttactgga ggctggaata 300

<210> 1358
<211> 86
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> n = A,T,C or G

<400> 1358
ccattgtgaa gggttatgcc cctgagagcg tgctggagcg caactggtgc acagagaang 60
tggacgtgnc nggggacggg gggact 86

<210> 1359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1359
ggctgtgttg tgtgtcttgt ttgatgtaaa gatagtttct gtaatagttt tgcagtttga 60

ttgttcatct ttaggtcttc aattacaacc tgcacatcca tcccctctat cctctttctt 120
actctgtttt tctccatagc acttatcatc caataatatg tcatgcactt tatttatctg 180
ttttgcatat atattttgtc tgttacctgt ttccttccac tagaatgtaa gtcccatgag 240
ggcagggact tgcatctatt ttgtttgtgg ttgtatctct aacacctggg atagtcactg 300

<210> 1360
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1360
gctgcttcat taaactcttc ttgagtgagg ggaatgagga ttgtcctaat cccttggcac 60
gaggtgttcc tgggccttgg ggagctgctt ctgtcctgca actgggcagt ggttgccgac 120
atcctgctga tctctagtgt cctgcgggcc aggcgccctg actcctatct gcagcgcttc 180
cgcagcctgc agcagagctt cctgtgctgc gcctttgtca tcgccctggg gggcggctgc 240
ttcctgctga ctgcgctgta cctggagaga gacgagaccc gggcctggca gcctgtcaca 300

<210> 1361
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1361
gttacaggga tcttgccact taaagattca atcttttaga ctggcaatga ggattcagac 60
aactcaatct ttgtgtaaat acttggtaaa gcaacaggac acagaagagg aatgctggaa 120
aaatctggtt tatgaaaaca gaaatcaaac caagttacta accaacctcc ccgtcccctc 180
caggcacaca aaaacatttg cctttgtact ctgccaatgc ttgatttaat tataatacac 240
actcaagtgg ctgtaaaaaa acccaacaga acagaaacca tttaacatct gaatagtgat 300

<210> 1362
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1362
cagctatcac aagtgttaat gtattttatg tgtagcccaa gacagttctt cttccagtgt 60
ggcccaggga agccaaaaga ttggacatcc ctgtgttaga ccatcatttg tttgctatat 120
gatgtcatag tggtagaatg gtcacttaag gtaaaatctg aatagagaaa tttggcagaa 180
atcataggaa tttctgtttg aaggcataat gagggttaat cattttcat aatagatgtt 240
aagattaata gtaatcatag cccatattta ttaagcactc gccacacact ggtttcgaga 300

<210> 1363
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1363
aatacacaca acatataaga catggcaatt aactgtttat gttatcaggt ttaaggcttc 60
tggtcaacag taagctatga gtagttaagt ttctgggggg acaaaaattt ggttgtcaac 120
tgatgggggg gcggtgttgg cacccctaac ccgtgcactg ttgaagggtc aattgtactg 180
tatttatata tgccagcagc tctccaactg tggtctgcag atctcatgag gtctcctttc 240
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<210> 1364
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1364
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gggggctgag aagtccaaga tcaaggtgct gccaatttgg ttcctggtga atgagcaaac 120
agcacagaaa aagaaacagc agtatatgtg gaagaaagca agaaaaatca actggcctgg 180
aacctaagac ttgtccaaag atgtcacaga gagtaaaatg agaaaaatcc agtagcccgt 240
gcccagagca gttcctcgta cccagcagaa gggaacgatg ctcttcccaa ggaaggcaga 300

<210> 1365
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1365
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acaaagtatt cttcagtttc tacttcctag ttcctttgtg gaactggtaa aaatttaaaa 120
tatcttaaca taatatttta tttcaaatga taaacagtaa ggtaaaatgt ggtttttctt 180
ggacaactta tggtagaatg atgtctagaa tatttagtta tgtcatttaa tacttttttt 240
ctttacaatt taaaaaaaaa tttattttat tttagattca gggggtacac gtgcaggttt 300

<210> 1366
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1366
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tattgagagt tggtgatcaa attgtacatt agctagaaag aaggaaggaa aactgatgaa 120
aattttacag tataaagtgt atgggtaagg tacacaaatc tttttttttct ctttttttg 180
ggaccactgt cagaaacaaa attttgttca tcacattatt ctaatagaac gtctcacaca 240
gcatgcagtg agctattgaa gtttattgtc ctaggaggta ttaacgaaac gaatgaactt 300

<210> 1367
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1367
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cacttataca aaaatgcaac ccaattccac ccctgaattg aggggagtgc atagaagtga 120
atgtcccgtc tttctgaggt ctgttgattt tgtaattagt aaacgaaggg tgcatttctg 180
attttttttt cttgtgtgct agaattcatt gctagtaaaa ctcaagataa tagcgatgag 240
taggaggtat caaagatgaa ctgtataggg acagtttaag ttacttaaga atcgtcagca 300

<210> 1368
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1368
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tttgctactc ctatcatctt aacagtgaag aaaactgagg cctagagaca ttaaggggt 120
tgcaggtcca gagacatgtc tcaagaaagc attgctgtta aaatgtgcag ttcgtgggtt 180
ttcagtccat ctcttaagaa accaagtcaa tcttcccctc aggaaaaaga aaagaagtag 240
caataagcaa tttgttaata tcactacttc ttatcaaggt aaaaaatgcc tcataatcag 300

<210> 1369
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1369
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cagctgtctg ggccttttt atgatactga tcccattcat gaatgctctg ccctcatgat 120
catttcaatt cccaaaggcc ccacctccta atattatcac agtgataatt gggttttcaa 180
cacatgaatt tgagagaaac acattcagtt cctagcatta gcttgcttat atttatttca 240
tctcattctc tctcatagct tttatttttg tttcccctgt ccaatttatt atagtttttt 300

<210> 1370
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1370
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ctatatacta gagttaacct ttattaactg ttttgtcata tgacatcaaa atgttatatt 120
attacctgtt aaatttagta tagtatagta tactaaaaca gtatgtttac aaaattgaac 180
tcactgtgca gatattacag gttttattca tgtaacacta tagagtgtct attgtcacat 240
gtcattcaag ttcttctaga gtgtgatttt ctcaggcaca tattgcacag atgctctata 300

<210> 1371
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1371
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ttaataaata tgatttaggt tggtttttga tatgtttttc ttccaactgt tatataagaa 120
actactaatg taaaatagta ggctatatgt tgggatgtgt atagctatgt cttcaagact 180
aatactcaga gaatcaaatt gtagattgta cctatctgtg agcctatttc tttagccagt 240
tttctgtcta ctgccaagaa acagaattct ctgcctcatg caaatgccct ttcgtgttta 300

<210> 1372
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1372
aaaaactggt agagagggag aaaggtacag tgattaagcc acctgtggaa gagtacgagg 60
aaatgaaaag ttcatattgc tctgttattg agaatatgaa taaggagaaa gcatttttgt 120
ttgagaaata ccaagaagcc caagaagaaa tcatgaaatt aaaagacaca ctaaaaagtc 180
agatgacaca ggaagccagt gatgaagctg aggacatgaa agaagccatg aataggatga 240
tagatgaact caataaacag gtgagcgagc tgtcacagct gtacaaagaa gcccaggctg 300

<210> 1373
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1373
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ggaaatgaaa agttcatatt gctctgttat tgagaatatg aataaggaga aagcattttt 120

gtttgagaaa taccaagaag cccaagaaga aatcatgaaa ttaaaagaca cactaaaaag 180
tcagatgaca caggaagcca gtgatgaagc tgaggacatg aaagaagcca tgaataggat 240
gatagatgaa ctcaataaac aggtgagcga gctgtcacag ctgtacaaag aagcccaggc 300

<210> 1374
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1374
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gtcctagcta ctgaggaggc tgaggtggga ggatcacttg agctcaagaa ttcaaggctg 120
cagtgagcta tgatggcact actgcacttt agcctgggtg acagagtgag accctatctc 180
acaataaagt aaaataagaa ttaacacact cataataact atttagttaa taggaaactc 240
tgtttaagcg atattgctta tatttctctc tcatgctttt gtaggtctgg actcatcctc 300

<210> 1375
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1375
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actgccgaga aacaggcctc atttctccca tgttcccgtc cccgctcccg gtttcctgca 120
tgactgcttt ggtgcccccc gactccagaa tcaacaccac accagctctg cctttagact 180
ctgcccagag gctctgggct ggatactgta tttggtgcga ccctctgggg cattttgca 240
agttttcagg cagatgggtg ggggagcagt gaaggaagga ggaaaaaaga caaagcacaa 300

<210> 1376
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1376
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ggatgccctc agccaggacc agctggaaca aatgatactc acggaggagt tgcaggccat 120
ccgccaagcc atccagggcg agctggagct caggaggaag acggatgctg ccatccggga 180
gaagctgcag gagcacatga cctccaacaa gaccaccaaa tacttcaacc agctcatcct 240
gaggctgcag aaggagaaga ccaacatgat gacacatctt tccaaaatca acggtgacat 300

<210> 1377
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1377
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gatgtctcat aagaaggtgg ccccaggcaa tcttagaacc ggacaacagg tggaaacaaa 120
gtcacagcca cactccctgg ccacagagac cagaaaccca ggaggacagg aaatgaacag 180
aacggagctg aacaagttca gccacgtgga ttctccaaat tcggaatgca agggtgagga 240
cgcgaccgat gaccagtttg aaagccccaa gaaaaagttt aaattcaaat tccctaagaa 300

<210> 1378
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1378
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aggtatacta ccatgtgctg gggctgggcg agcctctggc cctgaagtct ccccgggctc 120
tcagactctt ctcccacctg cgccacccag tgtgtgtgga gctgctgaca gtgctgtggg 180
tggtgcctac cctgggcacg gaccgtctcc tccttgcttt cctccttacc ctctacctgg 240
gcctggctca cgggcttgat cagcaaagac ctccgctacc tccgggccca gctacaaaga 300

<210> 1379
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1379
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taatcaagct ccagtacagc ttgtgtcaag acctagtaag accaccttta atgtgttcct 120
ggatatgaca ttaaaaacta acttgaaaat tgttaggata tttccttgtt ccctactttt 180
attgtaaaat ctactacatt cttaagaatt aaaaaacgcc atttcagaag agatgatagt 240
tttatcttgc caaggaatta tcttcttagt agcctatatt ggcttattcc aaaaaaggcg 300

<210> 1380
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1380
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atcaaccaca actagcagtg catgttatag tgttaacaga aaattccaca ggaccctctt 120
cacactaggg aaggggacca tctgctactt tcatattagg atgtcaggat ttagaggtca 180
atgtgtttcc tcatcaaggc tgaaggcttt gggaatccgg ggaagtgtca ggctccaagc 240
agcacagcct gctcaaactt catatttaag cactggacaa gacactgttt ccaatcctac 300

<210> 1381
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1381
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ggatggtctt gatctcctga tcttgcgatc cacccgcctt ggcctcccag agtgctggga 120
ttacaggcat gagccaccac acctggccac agaagggatc atttctaaat agcatagaat 180
cacagggagt acacctcatg tgacttcacg tttagagtca gcatttgctc ataatgaatt 240
acatatcagt aaatgaacat gacatgcttc aacttcaata atattaaaca aaactctttc 300

<210> 1382
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1382
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aaggttttca gattatctac atccaggctc gcccccaacc ctgtcctcag gaatcactga 120
atgcagccat gacactgaaa tttgtttttc attcattatt ttttcattct tacaataaac 180
gtggttttat aagttagtta aaaagtcttt ttcaggatgc cgtagtaaac aagagtccct 240
tttgagcatt tccttagtaa acgatgaatg gctgctggtc aagcttgttc tggcaagtct 300

<210> 1383

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1383
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tgcatgagat gaaatacatt tagcacttgg taagcactct ataaatatgg caatatgata 120
gtccctgact catcttcctc tctgttgccc tttaaacagg tgagcaccta gccttgttgg 180
ttttatgtgc tcaacagcag ttgactcccc tggctcctct cacccatgct actgcgtagt 240
caagccctcc atagtctcct ctctggtctc tgtttcccat ctgcctttgc ctttccctct 300

<210> 1384
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1384
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gtaaatagct tttaaaaact gatgggaaat gctgtttgga agtggaattg ttgaaccacc 120
tgggaggtgg gagggaagaa attgcaaatg gtgttttgcc attgtttatt agaaaatttc 180
agcttaatcc attgtgtata tgttacatgc atttcattta actttgctat actgtatata 240
ttgtatatat aacggacaaa ttagtcccga ttttataata tctagtctct agatattaaa 300

<210> 1385
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> n = A,T,C or G

<400> 1385
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accatggaag ctgatggtat aactcagtct gaggatgaag gcttcagaac ctgggggact 120
acaggtgcaa gntctggana ccttttgctg gaataacctt gnttttttg tncctntttn 180
nanntttncn nttttcnntt tncttnagna nttttnttnnn tgtttttntn nttnntnnnt 240
tnntgnnttt tttnagctct nnttttntan tttttntttn tntnttntan ctttttatg 300

<210> 1386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1386
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gttcacgtta ctattgttaa gtgtttctaa actggaaatt actccagaca atactatgag 120
cacacctgtc tgtggctttt gatgagcatc tgaatgcagg ccaaacttgg cctgccaaac 180
agtttctgcc gttgtttgta ccagttcaca ctccctgcca aacagtttct gcaatgtttg 240
taccggttca cactcccacg gcagcacatg aaagctttat ttgctccata tcctctcaaa 300

<210> 1387
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1387
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ggaacaagga caatgtcgcc cgcgtgcggc gtgacgaggc ccaggcccgg gaggaggaga 120
aggagcgtga gcggagggtg ctgctggctc agcaagaggc ccgtacagaa ttcctacgga 180
agaaagccag acatcagaac tcactgcctg agcttgaagc agcagaggcg ggagccccag 240
gttctggccc tgtggacctg tttcgggagc tgctggagga agggaaagga gtgatcagag 300

<210> 1388
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1388
gccaaatgcc ggaattcaaa acctggcaag aaaaagaatg attttgaaca aggcgaatta 60
tatttgagag aaaagtttga aaattcaatt gaatccctaa gattatttaa aaatgatcct 120
ttgttcttca aacctggtag tcagtttttg tattcaactt ttggctatac cctactggca 180
gccatagtag agagagcttc aggatgtaaa tatttggact atatgcagaa aatattccat 240
gacttggata tgctgacgac tgtgcaggaa gaaaacgagc cagtgattta caatagagca 300

<210> 1389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1389
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tgtgtaaaac atgtccatta acatgtgctt aatctgttct gtgaaagtat tttcagaaat 120
gataaaaagt aatgatggtt acatctgaat ataagttaga tcatgacact cactcctttt 180
ttcagaaact accagtggca tcacatctta ctcagagtaa aaaccacagt gggcttactg 240
tgggctgcaa ggcctcgtag gatttgcccc ccatgacttt ctgacttcat ctcttgtcac 300

<210> 1390
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1390
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gaaatggctt tatggaatca atttgcaaaa atgtaagagg tggcaaagga aagaataaaa 120
taatattttc attttcttct gttattctta gatcctttgg tagattgtaa actccatgaa 180
agcaggatac cttcttttgc cctaaggctt ggcccaaaag agataccaaa aaaatacttg 240
cttatatact aacctagtct ctgggtgtgg gagccataga gggttcaggg tggggtggtg 300

<210> 1391
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1391
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aaatgataag tcatatatgg ccggtgagtt tttcttccaa agactggtcc acactagagg 120
gtgcagcctc cacagacact gggaattgct cctgacctat ggaaaacaac tttctttcca 180
agaaaattat ttttagtcct ttggtgtaaa gacacagtcc tgagttgttt tcacttactg 240
aattctataa ctaggaatga aacactatac tcttgctaaa aatgaccttt tttctttcag 300

<210> 1392

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1392
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tatccttgag taatctattt ttataaaggt attgatgtaa ctattttata aatgaaaaac 120
tacacactaa aaaccaaata tgtgatctcc agcatcacag aaatgaaata aggatttttt 180
tttaacttag gtaatattgc ttgaactgta gtaattcaaa tgtagcaatt tcaaaggtag 240
aatttcccat gtattactat actgcttcac atcagctcta ttaataaaag tagaacagtt 300

<210> 1393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1393
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aattgagagg agaaaggcat tttcagtttc tttagttaat aaaaagaagc catttctgga 120
ggagttttat gcctgtacca gcagaggttc agctttccag gaatctcatc atgatccata 180
ctgctgacac aggcctttgt cacctgaagc attcttaaaa taaggagact gacattaaac 240
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<210> 1394
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1394
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aggagaatcg cttgaacccg ggagacggag gttgcagtaa gccgagattg tgccattgca 180
ctccagcctg ggcaacaaga gcaaaactct gtctcagaaa atatatatat atccctaaaa 240
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<210> 1395
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1395
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cctcccaaag tgctgggatt acaggcgtga gccactgtgc ccggccccag ttaggctttt 180
gcaattacct agatcagaga taatgatagc tgtgactagg aggacagtgg ggaagtgaca 240
gagatggaac aaagcctaag ggcctgtgag aggaagaccc aggagtgaat ctcaggtttc 300

<210> 1396
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1396
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tgtcatatct caggatgatt tcttcaagcc agagtctgag atagagacag ataaaaatgg 120
atttttgcag tacgatgtgc ttgaagcact taacatggaa aaaatgatgt cagccatttc 180

ctgctggatg gaaagcgcat gacactctgt ggtatcaaca gaccaggaaa gtgctgagga 240
aattcccatt ttaatcatcg aaggttttct tcttttaat tataagcccc tttgacacta 300

<210> 1397
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1397
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ctatttattg agcgcctgtt gtgtgtcacg gggctatgag ggccgtgggg tgtttgggtg 120
gattatccac acaggtcccg gcccctgccc gggctggagt tgccacagcc tgtgctcctg 180
gtcctcacct ggaggggcca gcaggctgcc gtcccaccac acgtggcctc tgcgcccagc 240
acggtgctct ccgacagtgg tgtctgaacc cttggggacg agggcctggg ccgcggtgag 300

<210> 1398
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1398
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cctcagtgtc tgtagccccc aaagcagggg cacagactct gttagttatt gatactgctt 180
gttcgtactg aagagtatca aaaggtgggg agaacattga aaaccaaagc atcctgagta 240
cattcagttt gctgttttcc aagacagaca ttccagatat atagaagcca aagtcctgtc 300

<210> 1399
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1399
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ccttgatacc aaaaataagg ttttggggca taacatcctt atgaattcaa atgttagtca 180
tttcacatat cttccacttt atttcattaa gtccttccta gtagacactg ttcaaacatt 240
attcaccatt tactaatgct gttacaacat tattttagaa gatggatatg gatagctgtt 300

<210> 1400
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1400
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caagcgcttc cttgccgaga ggctggagct gcggcaccgc aggcctgagc cacccttct 120
ctgctgtctc cttctcttcc tcagggctcc cgtgtctgct cgccctccga cgctgctcag 180
actatggaaa tgatgttaga caaaaagcaa attcaagtga ttttcttatt caagttcaaa 240
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<210> 1401
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1401
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gaatcaaggt gaatcaatct gaaattgagc acacctgcct gccatcgctg ttccttcaac 120
tgagtgctgc acatcatggg ctctgtctgt gagagaaaaa tcccggtgct tggtgtcctt 180
gcatgacatg gagttttgca tgtagatcaa tttaaaatgt acctcttgtt tacataattt 240
gcataatttt aaaagataat gttgccaaac tttggaaatg ttaatgttca gactgaaaat 300

<210> 1402
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1402
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attttatatg accttcattc agaagttcag actctaaagg atgatgttaa tattcttctt 120
gataaagcaa gattggaaaa tcaagaaggc attgatttca taaaggcaac aaaagtacta 180
atggaaaaaa attcaatgga tattatgaaa ataagagagt atttccagaa gtatggatat 240
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<210> 1403
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1403
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aagtattatc tgatagaata caagatgatt caaaattata tagatattta aagcttttct 120
gctgtttttt ttttttaatt gcaacngctt ttntgccgng cctntnttcc ctacccaaaa 180
gngatgagtt ctgancaaga caanactgtc atattgtaaa nactttggta tgngatncca 240
tanaatactg atnggatagc catcctagtc acttaccaat actgactaaa agttaactct 300

<210> 1404
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1404
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tttagtgatc cagaatttcc ccagagctta aagccactgc agtaaattag ggtacgtagg 180
atattcagtc gctactagcc ccaaggagtc tccttattta atggacctcc ctcagtactt 240
aattcctgca gagcgcctca aagtggggga agagaaatga ancaantcnt gggctcaagt 300

<210> 1405
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1405
ctcagtaacc caattactag tacctttga agagaccagg ctgggaattg gtattaataa 60
taatagctga catttaccag gggctaccca catgccaagc atcatgctaa tcttgccagg 120
tccttctgag tcagtgtgaa tggcaggagc accacatgtt cctttctctt cagttcacac 180
acattgagtg tcttcatgtg taagtaacaa cagagactga gggcatatgt attgtgtaaa 240
aaaaaatttt gttactggga aaatagccat tactgggaaa tagctttgtt acagaaagtc 300

<210> 1406
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1406
gtcatgatca actcagtata ggttttctta aaaaattttt tcttaaaatg ttttttaaac 60
ttcaaataag tttggttggt gctacagatt taaatcgact tgtttgtgag gataatagaa 120
ttctttttgc tatgaactta tcagtcagcc cagcgtctgt gagacggtgc ctgcttgcat 180
ggtgcagtcc agagtgtatt ttgcaaacgt ctagcactgc ctttatgtag gacgcgtgct 240
tcgttttatt ggtctaaaat ttcccatgtc ataacacttt gatcatgcct tagagaagtc 300

<210> 1407
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1407
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atattcatag tttctgaaga tcaggatctg gatttctttt ggggcaatta ttcagctaac 120
cacatattat aatgaggaag cacttcttgg gaggcatcat aatgcttgtt ttttcttttc 180
ctaaatagag tatcactttt acccaaatgg aataactcgc tgggttattt tactgagctc 240
ttgatgctca tttctttggt cttctctgtg atgaattaat gtttctatat ggacatcatg 300

<210> 1408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1408
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ccacccgcct cggcctccca aagtgctggg attacaggcg tgagccaccg cgcccggccg 120
aaagccaact cttatgccta gaaatatgtg cacctatgac caagcccatg aattatacag 180
gaattatgta attatgagtg atgtacttca aagttattgc acatacactt gtttactttg 240
tatgtttgca ggattaaact ttgtataatc tttttacaaa attttttttt cagtatgcaa 300

<210> 1409
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1409
gggatagtag ctgggaactg ttccctttct gattaatttc agcagcatcg gaatatattt 60
ggagcacacc ctagtaacct cttgagatta aattacatag tcttaatatt tctgttcctc 120
catgcaactg atgtttgttt tttaaagggt aagatgctgc ctcccaatgg gtgatgccat 180
ctgactggtt tccccatgtc ctcccattca cccatctctg ctcccaccct tgcctgcctc 240
taacccacca ctggccagcc cccttgccct actctgggct gctgaacact ggtgctgtgt 300

<210> 1410
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1410
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gggatctcag tggaagaagt tatagaagtg acgacacaga atgcattaaa actgtttcct 120
aagctccgac acttgctcca gaaatagctt caaaaccatc cattacaaaa tcgaatcaac 180
tgcaggggggc agcatttgaa aaatagaaat gttctgatga agaatctgaa ctgaagaagc 240
tgttttatag ggttatagaa gattgtaatt gtagagaaat atttctctta gaaataaaac 300

<210> 1411
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1411
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attaattaat tttcagcgtt tgttatatca gaatggacat tatagcaatt tccatggctg 120
tgtcgctcct ggcagatttt aaagttcttc cagcctgatt cctctctctg tttgggtctc 180
tggcatggtg cctgctggag agtagatact tgataattat ctattgggtt ctcaggggat 240
ctctcaaagg tggtattcag gcacccacaa ggcaactccc atcacaagaa agaatggtgg 300

<210> 1412
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1412
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tactgatcac ctaatatgta ccacaaaaaa atgttctaga tacttacaac acattagtaa 120
acaaaatcgt aatccctgcc tccatggggc ttactttcta gtgtaaggag acagacaaca 180
aacaaaaagc ctcatataca gggatattat aatatggtat gttaaaaggt gataagtgca 240
acatagtaaa aaataatgaa ataaggcagg ataaaggggt attgggtgtg atagggtggc 300

<210> 1413
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1413
aaggctgaga caggagaatg gcgtgaatcg gggaggcaga gcttgcagtc agccgagatc 60
acgccactgc actccagcct gggagacaga gtgagactcc gtctcagaaa aaaaaaacaa 120
ctaaaatatg ggtattatgc ccaatccaaa tttcaaaaac gtgattctaa gtgaaagaag 180
gcagatgcca cagaccaggt attttctagt accattttag gaaatgtcca aaaatggcag 240
atcttcagaa acaaagtaac tgcaaatgtt acaaggaatc tttttagggt gacgaaaatg 300

<210> 1414
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1414
ttttagaaat agaactcctg tagatgtgta gaagagtgat gggaaagaga aaggactgat 60
gtccttcttt tcattgaaaa agatattgtt taggtcctac aatggcttag gtatggtttg 120

agactctggg gttacaaagc aaagaaaacc tggcctctgc cctgctcaga gaacagcagg 180
gatacagcat gttagcaaat aagtatatag tgtggaaagg tctgtagtca atagcagtca 240
ttttgacaat aggaaaagga atgtgtgaaa cttctgggtc tgtgtgtgtg ttggggttgg 300

<210> 1415
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1415
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cctcctcagc ctcccaaaat gctgggatta caggtgtgag ccaccacacc tggcctctac 120
tttcttatat ttccttaaat agatttcctt tctttttgga ttaagaaaaa ataaacagaa 180
aattaaaatt tgaacatatt ataaaaatga aagataattg taaaatcttg gtttggagag 240
tgtctctctg agcccagaaa tcatccagaa aaatggacag atttgactgc atcacattta 300

<210> 1416
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1416
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cagtgagcta tgattgcacc actgcaatcc agcctggaca acacagtgag accctgcctc 120
acaaaaatta tattctgatt ttctgagtcc atgaacacat tgtccaaatg gatttttcta 180
gctcctccaa gttacagata gttccacgca cacacagaac tcaccactct caaatatttt 240
ccccactagt attactatta aatttttcaa acatgcaaaa gatgaaagaa ttgctcagtg 300

<210> 1417
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1417
gttggccagg atggtctcaa tctcgacctc gtgatccgcc caccttggcc tcccaaagtg 60
ttgggattac aggcgtgact caccatgccc agccacttag ttttttctta ttcccacctt 120
tctatcccat ataacactct tttttatctt ccctgaacca tattgatgat ataaataggg 180
ctgggggctg ggccccgctg gtcactcaac agagtatttc ccttggccga catggaagtt 240
ttgacccaat agatgagctg ctgagtatca acaaggtgac atttttctgc tgcccatttg 300

<210> 1418
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1418
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gatcattttt tttaactaaa tgatttacaa tagtgagaaa gttgaccttg agttacatgt 120
tgaaagaata gtatgtaagc tggcaacaga aattgaaatt gagacagatt tcagcaccac 180
tgttggtaac aggctcttat tccagaggaa acatgtcagt tttttattag tgagtaaagg 240
atttctgcga agctttaaga atatctcatg ttgagtattg acatgtattt tgaatgatga 300

<210> 1419
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1419
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gctttgcaaa gattaatcta gcagcaacag attggaagca acaccaccat tcctggtatc 120
agtccaggta aaatatatta cagctcttta ctggagcaat aacagtaata ttagaaggag 180
aaataaaaaa gaaaaatatt gcacaggcag aatggggagg tcccagtgat ggagctgatc 240
ttggttcatt gaggcagggg tggcattaat catgtaaaac acaggaggag gaactgggtt 300

<210> 1420
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1420
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acatatgtaa tacacatctg tgtacacaga aaccggcacc tgccagacag agctggttct 120
aagatttaat acagtgcttt ttttcctctt tgaaatattt tactttaata ccagtgcctt 180
ttcttgttga acttcttgga aaagccacca attctagatc ttgatttgaa ttaatacaca 240
caatatctga gacacttaca cttttcaaaa gatttgtgta tgcattgcct aattagagta 300

<210> 1421
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1421
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atcaaaaagt gggcgaagga cacgaacaga cacttctcaa aagaagacat ttatgcagcc 120
aaaaaacaca tgaaaaaatg ctcatcatca ctggccatca gagaaatgca aatcaaaacc 180
acaatgagat accatctcac accagttaga atggcaatca tagagctttt catttatctg 240
agtgttttcc tctgcttgtc gggacttgtg ctttcacgag ctcctgctct catatcaggg 300

<210> 1422
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1422
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aagctagtcc ggcatgtgaa gaaacaagaa tttgcccaga agaggactgt ggagaaacct 120
ctgaggcctc cttccagagt aaggccaatg cagtagctta tttccaagcc ttgcaaagta 180
tataatatct aagaggaaag gttttgtcat cccagcgttg tccactttgt ggggctttgt 240
aggtagacgg agccacacta caggcagggt atgagcagag ggatgtatgg agtgtgggtg 300

<210> 1423
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1423
ctgacatgac taccttaggg atagagctaa gggataataa cttgcactaa atacatttaa 60
atacttgatt gcatgagtca gtttattgta gtttttgatt tctgtaaaat aagagaaact 120
tttgtattta ttattgagta agtgaatgaa gctatttttа aataacgtta gaagaaagcc 180
aagctgctgc tgttacctgc agaactaaca aaccctgtta ctttgtacag atatgtaaat 240
attttgagaa aaagtacagt ataaaaatag ttattgacca catgctacca ggctctgcag 300

<210> 1424

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1424
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tggctgtgag ttgccatgga gataggagca atggatgtcc aaggtctgag gaaatagaaa 120
ctgttcgaaa taattgcaga gaaagcttgc caacggtgat aagtaggttt gtctagcagc 180
actgatgcgt cgtggaagtt gatggtcatg aacatacagt gtgataacct atctgccctc 240
ttgacctttt ctagtagtgc tatgtcattt tggtactaag gtaggtgaat tttccaagtg 300

<210> 1425
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1425
ctgggggtcc tgcagtgccc gccttcttag ctcagggcct ttgcataggc tgttcctctg 60
cctgggtgct tttcctgcta cttcccgtgg ctgcatttgc ttaacttact cttctgattt 120
cagtctcaat gctgcttcct taggggtaag ccttctctga ccctacattc tgtagagata 180
cccccattct gccattctct cttttgtggc ctgggtttca cttgtaacta agtcattatc 240
cctgtatttg gtttgcttag tacatgtctg tcctcaagca ggggctggct tcaggctgct 300

<210> 1426
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1426
aaaaggagcc agaacttgat gattttgaaa attctcagcc tttctggttg gcagagggtg 60
atgaaattga gacacggcaa agatcaattc aagagccact ccggggagaa tggcggtcta 120
aagataaagc caagactgtg cctttaaagc ctgctgttaa gacctgagaa ggtagtgcct 180
tagcatcctc ttcagtcaca ctcaaggcct ctccgtcaaa caatagggct tctagccttt 240
ttagcaggag cccaaggtag aggtagaaga gttcctcttg gagagatcta tgggtatagc 300

<210> 1427
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1427
cttacctcct agaacattac ctcctagaac actgtgtgcc ctgcagagcc atcgaccttt 60
attataggcc acgtgccctc ggaaacttgg gacagtactg atgcgttctg ttgagtgcgt 120
ttggcatgtg ggaattgtga tggtgcacag tgtcttggcc ttcactgggt tttgtaggca 180
cactaaggtt tccatttcat tcttcttcag ttgccctggc ccagcctggg tctctgggta 240
gagcacctgc aggggcagtg gacggcctgg gctcagggtc ggtcagcacc tgagaccagc 300

<210> 1428
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1428
agaagctcca ctggcacttt tgtattcaca actaccgggt gcgataaggc agtgagggtt 60
attatgatac ccctttcac aggtaaggaa acaaggctca gagaggttca acaacagagt 120
cataattctt cttgttggag aattcatttt gttacatttc attcccacca tctgcagtaa 180

gggagaccca ttaaaatata gtatcctgat ttttaaagag aaggtaacat taaggccagg 240
aggtttggga tttgcccaag ttcactgtgg gcttctggac tcccatgccc aacagcctcc 300

<210> 1429
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1429
cttgaacctg ggaggcagag gttgtggtga gccaagatca cgccactgca ctccagcctg 60
ggtgacagag caagactcca tctcaagaaa aaaataaata aataataatt tgtgtatgtg 120
atgactgact ctagtcatta tggaaaataa cttttggcag tttagttcct acttgttaac 180
aattcctctt tttaagagag gtactacatt tgatttctca atttctcagt ttgttttcaa 240
tacaaacagc aaccactgaa atgcagaaaa tggtaatcaa gtgtgatgtt tctataaaaa 300

<210> 1430
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1430
cccacccccc ctcttttcca ttgaacaaac atttattgaa catcctctga gcacctggcc 60
gtgggaatgc cgtggtgaat gagagactag acgtgatgcc tctgggggtt gtgcgttggg 120
gatgcatgcg acagcccatg acccgaggca ttctcagggt atctgtgctg tgtgcccgtg 180
agaacatctt cccatgacca ctcctgccct cctgccccgt gctggatctt ccctccccag 240
ctgggatctg ctcccaggca actgtgtgaa ttttacatta tttggagcct catctgtgtc 300

<210> 1431
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1431
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tggttttcac tagggttttc tgaaaaccag cagaaacagg gggcctgaag gttgttagag 120
taatgagctt gcagccaaca tattttagct ctatcaaaaa atgcctgtta gtgctcacgg 180
gcatgtactg cgagagagat cttgaatgca tcactttggt atcctaagaa gtgtaatttt 240
tttccctcgt catactgggc tgtgtttaga cctcgtataa tacataatga atagaaacag 300

<210> 1432
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1432
agtttccatt tagtttgatt ttaaaagctg ccttttgaat atctaatacc aattataaaa 60
taaatatgtg taagtaaaat aaaatggtaa cttgtttttt ataagagggg aagttggttg 120
gttttataaa ttaaatgaac atttatgcgg tcggttattt ttacgtaaaa atagttgtta 180
tattctaggg taacagaaat ttagaaacct atttttctgt agaagaaagg tgttgctatc 240
tgcttttgat ttctcagata tttgcttctc cttagaatgc tatgatcaga tttttattag 300

<210> 1433
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1433
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tctctgatgg ggagcagtat tgcatggtgg ttgagaactg aggctctgat gttagaactg 120
gattctgact taacccactg tttgcccaca tcttgagcct tggtttccct atctgtaaaa 180
tggcagtatt ctcgggctgg ctgaggaaag gaaatgaggc caggcgcggt ggctcaggcc 240
tgtaatccca gcactttggc aggctgaggc atgtggatga tttgaggcca cgagtttgag 300

<210> 1434
<211> 139
<212> DNA
<213> Homo sapiens

<400> 1434
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tggtttcatc atgttggaat tcgatcacac cattttcaaa caatgttaac atagtccagc 120
ttttgttccg tttagggga 139

<210> 1435
<211> 239
<212> DNA
<213> Homo sapiens

<400> 1435
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tggggtgtgc tggggttggt acccgagcgc cttcccctca cctcaaccag agaagagcat 120
ccggttgctt tttaaagctt ttagcctgcc ctagcaagga caaagcatgt tagattagag 180
atgcttctgc tgatcgcagg ggttcttatt tgaaaacatc tatgatgggg gaggtgtgg 239

<210> 1436
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1436
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ttgggattct aaaaaattct gagtgagttt gcagtatgag aggaaataag atttcctcct 120
ccttcctctc attttatatt gactgtttgc cagaaactgt tttcttctgt tttcttatat 180
tttgtttttg agatggagtc tcactctctc acccaggctg gagtgcagtg gtgcaatctc 240
agctcactgc aacctctgcc tcctgggttc aagtgattct cctgcctcgg cctcctgagt 300

<210> 1437
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1437
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gggcaggaat taatatctcc attttacaac tgaaactgaa aattagagga cttcaatgaa 120
tgaaaaatct gagtagctta tcctaccaag tggcagatta gttcatgatt ccttattaag 180
tgataggact tgccaaacac caggaatctg gggaagaagt gtactcaaag aagtatgctt 240
ggaccaatct gaaaaaagaa aaanaattna gttcaaactg attgagtaac nattcacagt 300

<210> 1438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1438
gcagaagcca attccttgtg aaaagctgac tgccatcagt aatctcaata gaaaagagat 60
atgttttctg gagtcataaa ggaattcaat tcctagggtt tttgtttttg tttttgagat 120
gtaatattgc tctgttgccc aggctggagt gcagtggtat gatctcacct tactgcaacc 180
accacttcct gggttcaagc gattctcctg cctcagcctc cccagtagct gggattacag 240
gcaccagcca ccatgcctgg ctaatttttt tgtatttta gtggagatgt ggtttctcca 300

<210> 1439
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1439
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ctgaagcaag ttaaactttc tacatggtaa ccgtgattat gtagttgata tacaaagtat 120
tgactgtggg ccttcaagaa gaggttaaaa tacattcatt atattaacga gtgcatctta 180
caaagatttc tttcaaaaag tacttgaagt ttttttgctt taaggagtaa atctcaatca 240
tctggaaatt taacttctgt ggaatacctc tttacatctt aaaggaaatg ttaatgcatt 300

<210> 1440
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1440
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aacttctttt gaaaagcaat taacagttga taaagggtta aataaaaatt atctagtaag 120
gaatttctta ttggaatgta aacgtggttc taattttaaa tagacagtga tataaagaat 180
aaaaagtaaa cagtgaaatt gagttctcca gggaaaaggc agacctgttt agtaaaaaaa 240
ggatgctttt ttcagtgatg tctttttttg agtgcatatg tgtgtgactc ttgaagaaat 300

<210> 1441
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1441
atccaatatt tattgagtgt ctattaggtg ccaagcacct taataggtcc tatggatttg 60
aaatgccgtc cctgtcttag atctcacggt ctactggagg acacagagaa gtaagcaggc 120
agttgcagta caatgtaaca ctgagtgctg tctgtgtatg atgctgagga gggaggttag 180
cctgagccgg ggaagcggag cttgcaatga tcggagatcg cgccactgca ctctagcctg 240
ggcaacagaa caagcccctg tcttaaaaac aaaacaaaat cttcagagca ggcttaaaaa 300

<210> 1442
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)

<223> n = A,T,C or G

<400> 1442
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ttagaatctt ttgccaaaga atgacaatga tgcaaaaatg ggaacagttt ggattttaat 120
tagaactgtt taggagtgat gatgtgtaaa aagttgactt ctcttttgca tggcacagag 180
aaattatatt ccttacttca tgtcagttta tgttctaaat ctttttcact gaatataaaa 240
atcttgttaa atgccattag gcaccaactt aaagagggtt gtaaaaatat taaaagt 297

<210> 1443
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1443
actgaactaa tatcaatttt aaataatatt gctattcagc ttcaaaagac agagcctcca 60
gcatattatt attattatag taatctgatt ctttagaatt cagagaactc acctcattag 120
tgctcccttg ctctatctgg ccctgtggga aaataccctt gcatctttct atgggtatgg 180
tccactgtat cccatcatga ctttaacatt tttgaagtat tggtctttta aagtaagcaa 240
acaaattccc ttgttacatc aaattcaaat acagtaatgc attacaggac aaattaaagg 300

<210> 1444
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1444
gcctgtcgtc ccagctactt gggaggacaa gtcatgagaa tcgcctgaac ccaggaggca 60
gaggttacag tgagctgaga tcgcaccact gcacttcagc ctgggtgaca gagcaagact 120
ccatctcaaa aaataaataa ataaaataaa ataaaatata aagtttgctc cattgttgac 180
ccattgctgc tgataaaagt gtatactgga atgcatgtaa accatatatt taaaatgtat 240
aggctgggca cagtggctca cgcctgtcat cccagcattt tgggagacca aggcaggtgg 300

<210> 1445
<211> 161
<212> DNA
<213> Homo sapiens

<400> 1445
gtgtgttctg tgggagggtg tctgtgggga tgtgactatc agggtgggcc tgtgctgggg 60
atggggcagg cctgggtctg gagaggattt tgtgtgaaag taaatggggt gtttgaggcg 120
tatgggtggc tgttggtgtg gggaggcatc tgtgtatggc t 161

<210> 1446
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1446
taaataagtt gatattaatg atataagcat cacacaattt tacattaaga aatactgtgc 60
aggccatgcg tggtggctca ggcctgtaat cccagcactt tgggaggccg aggtgggcag 120
atcaccggag gtcaggagtt cgagaccagc cttgccatac atagtgaaac cctgtctcta 180
ctaaaaatac aaaaattagc cgggcatggt ggcaggcacc tgtaatccca gctactaggg 240
aggcttctga acccaggagg cagaggatgc agcgagctga gatcgcgcca ctgcactcca 300

<210> 1447

<211> 251
<212> DNA
<213> Homo sapiens

<400> 1447
ggcactcacc gcctcctccc tggtacacag gcttctgtgg ggccaccaag cccctcctgt 60
gccccctccc atccatagtg catggtgtgt ggtgccccca gggctccagg acagatcagg 120
ccccaccttg tgtctacccc catccccgct gtgaacgtgc cactgaataa agtcggggaa 180
acgagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa a 251

<210> 1448
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1448
ctggaattag tggcttgctg ataatctcat tttataattt gttcagcaat ccagcaagac 60
caacttttta aaaaaattaa taacagtagt tttatgaaaa ctaagtaaga aaacagtttc 120
cacctatttc tgaggtctcc tttagaagga gtaacagaca gcttttattt ctcttaaagt 180
tataaaaatc acaatcgcaa gtcacaatga atactgggaa gggaaattac ttttgcagag 240
tgatcaagta aatgatagcg ggggctaaac ttttttagta aacttgtgaa gattacatac 300

<210> 1449
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1449
atgactgagt gtataccta gttaaaatga tcaggggaga cttaactgaa aggggtaatt 60
gagctagatt tgaaggatga ggagtagcag actagtcaaa gaaagggaga gaagaacata 120
cctaaacatc tgatcaccag tgactgagaa agttatcagg atcaagtgga aagagaaagg 180
actagcagag ttacaggtta gagaaacagg taaaggctac tatggacggc ataatagttg 240
catcccatgt tttgtctctt aagaacagtt gcaaactatt gaaggtttta aagctgtgtg 300

<210> 1450
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1450
attgtcttgt gttatggtgc ttcagcattg gattcagcag ccagcttcct agtacgaagg 60
caacgattac ctccacaggg tcccttccat tgtcctcctg catcattttc ctccaacttg 120
aataaatgtt ctacccacct ttctccttta ttttctctac cccctgtacc ccgctccctc 180
tcacaattaa ctctacagca gaatgtgaat tctctgattt tagaataact attttatggt 240
aacttcaaat atatcctagt tgtatccaca ttcagcttgg gtaggtacct tcatagtagc 300

<210> 1451
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1451
caaagacaag cctttatgga aaaggaaatg cgctcccctc catgttcagg gatgagggga 60
gcagcagcag ccacactccc accatcctca cagaattcct ggacccatgc ggtggctccg 120
tgagctgggt gactccagcc tcacctgcac accccagccc tgcacggggc cctccttcct 180

cccagcagcc cttggtgagc taggaattga gatccctgtt tgtgaaagag ggaactgagg 240
tgcagagaag ccagaggtgt gccagatcct taggcaggat ttagatgaag tcgccctggc 300

<210> 1452
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1452
aaaacacatg cacacatgtt tattgcagca aaccaccatg gcacatgtat acctatgtaa 60
caaacgtaca cattctgtac atgtatccca gaacttcaag ttaaagaaaa aaagaaaaat 120
atattagttt agcaacattc aaccttatcc tatataaatt atgctaagaa ctttgttaga 180
taaattctat tataaaaggt cctagctagt agtattaaat ttgttgttgt tgtaatttat 240
gtacaacaaa attcacccat tttaggtata cagtttgaat gctttttggt aattatataa 300

<210> 1453
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1453
tgagtactta tgaaaaattg tgagaaattc attgtgtggg attttcacca ttactacatg 60
tatttggaaa taaaaattgt atgactatgt atatgaaact tgttcatgtt ctaaaaaata 120
ccctccattt ataatatgtt tttaaaattt gccactgaga agtacaaatt tccttcttat 180
ttcatcttag ttatcaaccc agagtcactg gaggcaatgc agtgtagtgg ttaagcgtgc 240
agattctgaa gttagacaag atttgggttg gaatcctgac tctgccactt actagctggg 300

<210> 1454
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1454
acctaatttt tgagaacagc aagccctatt tgaccactct cttcagcctg tgtgttcctg 60
ctgttttgaa gtaatcaaat gctgtgcatg gtattttacc tgagctgcaa cctgttatgg 120
acttgaactt ctgtttaagt tgaaagcaag agtccctgag tataaaggaa aaacagcaaa 180
acaaaaagca aacaaaaaaa aactgcaaaa gtctaaaata cccattggtg atgtttttta 240
aaaaaatctt gctttcagct ttcaggagtt aatattcttt gttttaattt gataattgga 300

<210> 1455
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1455
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tggtgttgct cacccatagt tccagctact cgggaagctg aggcagtaag atcacttgag 120
cccaggaggc cgatgctgca gtgaactgtg attgttccac tacagtccag cctgggtgac 180
agagaaaaga aaaagaaaac attacataat ttggctagag cataataatt tgattttctg 240
gtttttgaaa atttgagttg cataaaagga nnnnnnnnnn caaggnttct acaaggnngn 300

<210> 1456
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1456
ctgggtcatg aaataacaga ttaaaaatgt tctctggtaa aagaattaaa catttctgta 60
aatggaagga aaataaaaag atttcagaga gtctgatcaa taatagcttg tgggtcctag 120
tgagtggagc agtgtataaa gaggtaaggt ttttgaggga aaaaaatact atgtcaaatg 180
gggggtgaat gataaaaatc gctctcattt tccttttttt caccttttcat cttcatttat 240
ggaatttcta tacaataaat atgtttggca tttaataaca gtgcctctcc cccggaatac 300

<210> 1457
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1457
acgaaatagt gacatgcact tattagattt ggaatctatg ggcaaaagtt cagatggaaa 60
gtcgtatgtt attacgggga gctggaatcc aaaatcccca cattttcaag ttgtaaatga 120
agaaactcct aaagataaag tcctgtttat gaccacagct gtagatttgg taataacaga 180
agtacaggag cctgttcgat ttctcctgga gacaaaagtc cgcgtttgct cacctaatga 240
aagattattc tggcccttca gcaaacgtag tactactgaa aatttctttt tgaaactaaa 300

<210> 1458
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1458
gattttcgaa actcttcagc tacttgccct tttttatctg aaaccatcat accttctgaa 60
agaaaaaagc atatcttcat tgacataaca gaagtgagat ggcccagtct tgatacagat 120
ggtaccatga tatatatgga gagtggcatt gtgaagataa catctttaga tggtcatgca 180
tacctctgcc tgcccagatc tcagcatgaa tttacagtac atttttgtg taaagttagc 240
cagaagtcag actcatctgc agtgttgtca gaaacaaata ataaagcccc aaaagataaa 300

<210> 1459
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1459
gtattcatga gaggcaagtg ataggttact agggatggat tgtgtgggag aaataatgca 60
gaggaaatga tgatcatctc cattgaatga cagctgttat atagcaaaga taaatgtaaa 120
attagtctta ttcttggaag tggaagacag cagttatcag agaggagaat ttaatcaaaa 180
gaatcagaat agcatggtca caggccagat tcacattgaa gtatttactc tatattttac 240
tgctgttaca ttcaaaatgt atcagaagtc tcatggttca attaataaag tgttattcgc 300

<210> 1460
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1460
tcattgtgta ataaaatggc agtttccaaa gatggatgtc tttagttttt aaatgacatg 60
ttgatttttt tcatgatatc tgcaaatatt tttgtctttt ttgacctcag aacaaatgta 120

aagcattgat tggagcacac acaaaagtta ggaaatatgc tgcttggcaa ctgagtaaaa 180
gtaaatatat agtctcttaa acttccaaaa aagtatacaa tagtacagga tgggttctat 240
tcacaagctt tctgtctgta accgtaaaag atatcactat ctaaaaataa tatcagaatg 300

<210> 1461
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1461
ctgggtctca ggcctttgaa ctcaaactgg aactacatca ctggcgctcc tggtctccag 60
cttgctgact gcagaccttg aaacttctcg ggctccatta acctctttta tatatagaga 120
gagatacata cacacacaca cacacaaaca tacacacaca cacacattgg ttgtatatct 180
ggagaatcct gattaatata cccgataaat tcaaaacaaa acaaaacttg aaaaaaaaat 240
ttttcaggtg aatatttgtt ttttagcatc tgagtttcag tccaaacagg gaaggaaaga 300

<210> 1462
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1462
tgagacagag cagccccaga acacacaccg gggagtacag gagcctaggc cacgtaccca 60
acattgcagg cagagaaaaa agaaagtgta ttccatgtaa gcaaatgtta tttggacctt 120
tctctctgtc tgacctaatc atggctcaca gaaagtaatc atactcctaa taatacatca 180
acttatctga tttatccaca caatcacgta gattaatgta tgcttctatt tcctggtcgc 240
tttagcataa tattgatcat aaattgataa ataggaataa aacaatataa ttagattaat 300

<210> 1463
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1463
caaaaacaag caaaacaaaa cattttaatt gttatgcata gtatatatgt gcatttttgt 60
taaattaaga cttataatct cataatgatc atgatttccc ccaaatgctg atgatgacca 120
aatttctatt tctgtcccag accttgaacc cccagcctaa aaatcagatt gcatattgga 180
tgtttcttcc tggaagaatg tcaaactgaa caagtctgaa actgatcttt gtgcatcaca 240
acccagccaa acctgttact tctcctacat tccctttctt ggtgattggc ttgtccaccc 300

<210> 1464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1464
agttgtatta ggatctttat gtgtggccaa ctcattaaat tttcagatta actcagaaat 60
attgttcctt tattttgcac atgaggaaac tgaggctcat atgtttttt cttctttatt 120
ttttatttt agagacaggg tctcgtttca ttgccctggc tggtctcgaa tttctggtct 180
ctgggctcaa gcaatcctct cacctcagcc tcccagttac ttggaggatg aggtgggaga 240
attgcttgaa cctgggaggg ggaagttgca gtgagccgag attgtaccac tgcactccag 300

<210> 1465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1465
gtttactttg ttgtctttgg ccctttatgc aatcagtgta aaaggactag ccgtttctgg 60
ccctacacta aagcttattt atatttaaat cagtgattcc aaactttaaa tgtataacat 120
catgttaatt ttgtaacatc aatggttttc tttaaaattt caagatattt atcttgttac 180
ttgtattgga cagttctaag aaatcttaga gggataactg tcttacctgt tttttaaaaa 240
agatcagctt gcaatcttct gcttcaacca tatctgtatt agaatacagt attatttcta 300

<210> 1466
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1466
gatcaatcca agctcctaaa catggtattc acagtacagt cctaaaaaca ccatccccaa 60
cttgctgtaa acccaaaatg gcgggggcct cccagatatc ctatgtctgt gcctttgtac 120
cagctgggcc ctctgcctgc aatgccatct ccatctcttc catccccttc caggagacgc 180
tagcactcac tctctcctcc tctacatacc atcattcctc ctcctgaaga gctactctcc 240
ctaactcacg tgtcacaaca acccacctgc cattatcctc ctcttcatct tcacaccggt 300

<210> 1467
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1467
gacagctgag gcccctggaa ggcagatcca actcctcctc cagcgacacc actggctcct 60
tcacagcttc actccaagaa acttctagac cccccagggg gtgtctcaag tgaaagtctg 120
gccccacatc tacccccaag gatggcactg gctaggactg cttcaggtct cggttaacct 180
aggtcaaagt gtccttgggc gcaagtctga gttaggctgc agaaacacct gctacctccc 240
ccaggttcac actgacagct gccgggcctg ggtcaggcac agccagtgct caccttcatg 300

<210> 1468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1468
cctagttaaa tcacaacaag ttagtaatcc ataaatgatg tgtcctgttt ctctttagta 60
gaaattatat ttttggctac cagttaagaa acttgtactc ctttgtccct tatgttacta 120
taaactcaag atgatgagtt ttgtggtatt tgacttcata ggcaaaatca aaatttttac 180
tttgttgcta ttctgtttta tgaaataaac ttctgtctat gcatttgaac taagtttcag 240
caaattcaat ctaaattgaa taattccagc tcccagtttt atcctatgtt gctcataaaa 300

<210> 1469
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1469
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gtagattcgc ttgtaccaat tttgcacata aggaaacagc cttagagagg ttaggttgct 120

tgtgcaagcc cagggtaggt ggcacccagt ctgccaatct gcaacgcact ggtatcttcc 180
agccagtaga ccttgctccc tgggtgccca gttctggatc tcaggaaagg cggattaagg 240
ctcctaatgg cgggacctgg gtggggattt gntgnccttnt ggtggcanaa gggacatcac 300

<210> 1470
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1470
gaggattagc catgctgggg tctcttggac aaaaggctgg tactgattga aaaattccct 60
gagtatgtct agaagtgtca ggctcctctg gaatcagtta cagtgggatt ggctgcttag 120
gtataatctt tataagatta aaaattatag attatttggc agcttgtttg aaagtgttgg 180
tcccaagaaa aagttctgct gtgtgttatg gcagaattat taaaaaaaat acattcttaa 240
gttgaggttt ctaagtaggc ttttgtaaaa acaggcaatt acttgctgga ggcagttaat 300

<210> 1471
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1471
attcgatttg ggtcgcaatt acacagacat tgacgggcaa ctggagcctc ccagggactc 60
ctgcacgaga gggagttact gaagtccctg cagagtgact gttttcccct agtcagtgcc 120
tccttttctt caggtctcaa ggacgggatg agcttgcctt ggaaagcttt gagggagtct 180
cgtattttac cttcatagca aaagttgttt ccccacttct ctccaccatt tcttatttct 240
tcctgacagt tgttctggca catctcttga tcgattgtag tattttcttt ctttcttttt 300

<210> 1472
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1472
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gtcgctgcat ctggtcagcc gggtggctaa gaatcagtat ggctggcatg gacggcacag 120
cctgccaaaa accctgagga acctccagag actaggagag gagcagaaat atgaagagca 180
aatggcctac ctccaacaga aagagctgga cctgatagat tataaatttg gagaacgtaa 240
aaaagatggt gatccagatt cccaggaaca acagttactg gatttctctg aacccgactg 300

<210> 1473
<211> 148
<212> DNA
<213> Homo sapiens

<400> 1473
catccctgga gcagcttcca acactacttc agggtggcag tgtttggggc actgggcgag 60
cctgccggcc tctagatggc ctcatctctt ccttccacaa actgtctaga accaataaaa 120
ggaaacctgc caaaaaaaaa aaaaaaaa 148

<210> 1474
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1474

tgcctgttga acttgaacct aaaaggacca ttcaaagcct gaaagaaaaa acagaaaaag 60
taaaagatcc taagactgct gctgatgtgg tcagccctgg ggccaactct gttgatagca 120
gagtgcaaag accaaaagaa gagagttcag aagatgaaaa tgaagtgtct aatattttga 180
gaagtggtag atccaagcag ttctataatc aaacttatgg aagcaggaag tacaaaagtg 240
attggggcta ttctggtagg ggtggatatc aacatgtgag aagtgaggag tcctggaaag 300

<210> 1475
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1475
ctgaggttgt tttcctgttg ttgttgttgt ttttccttga gaggagttgc aagacgtggg 60
aggctgtggg cagggttcca cgggagaagg aggatgctgc atgtctggga cttgtgagga 120
ggaagcactg aagaaatcta tgtggcacac ggaggtgttt tcaggtgttg aaccataggg 180
aggtctacgt gatttcctca ttaggaggat tagagagggc agagtcagga aaccaataga 240
ggaggcctgg actaaatggt ggtagtggat atgtctgagg ctggggatca ggctctggtg 300

<210> 1476
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1476
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agggctagag ccttttcttt ttatggcact tctttttttg agatagggtc ttactctgtc 120
accctggcta gagtacactg gtacaatcac ggctcaatgt aggcttaacc tcctgggctc 180
aggtgtatgt cactatgccc ggctactttt tgtatttttt ggtagagacg gcttcgccac 240
gttgcccagg ctgcaagcga tatgcctagg ctcaagcgat ctgcccacct caacttccgg 300

<210> 1477
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1477
ggaaaaataa catgttcact ttatgaaagg aagaaccagg aaaaataata gaaaataatg 60
aacatgagtg gagatataga tgaaagctaa ataagcattc actgtgtctt atcaagagtg 120
actaataagc tgacagcttt atttgagttc tggtaagcaa attaatatca tataaatcat 180
tacaatttgg ataaagcaaa acctgttatc aaatttaaaa actgtttaat aattcaacac 240
tccagtggtt tgccttgttt aagcaaaagg attctggcca agatatttta cttcagctct 300

<210> 1478
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1478
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catggggact gagtacacag atgaagacac agaagcatag agaggataag taatcactag 120
caagtggaag aaccgggatt cagatccaga acaggctgac tccagagtca ctggctgtca 180
tgtagtttcc tcaactactg cctcagctct acaatcccag agtaaagctc ttctccaaat 240
gaagagccag gaagaggtag aggtggcagg aattaaactt tgtaaagcca tgtccctggg 300

<210> 1479
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1479
cctaggcttt accctcaata ctgcttctgc ctgaccaaac tgtctctctc ctgtggctct 60
gtgtgatgtg acttgtcctc ttctccaagg cagtattact cataaattct tctttagcgg 120
tactgatcta tctgtgtcat cgctcagtca accacatata ttaagaccta ggcacagaac 180
aattctattt ctataaaatt ctagaaaatg caaactaaac cataatgaca aaaagaatat 240
tagtggtttc ctagggatgg gatgtgggca aagagagacg aaagaaggag ggattaccaa 300

<210> 1480
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1480
gaaggaagaa aatttgggac tttgttttaa aagtggaata ctatcttctt aaacaacttg 60
tgtttaaaac aagccccaat ccacacttga tcttcttaag ctaggaaaag tgagctcaca 120
ctgagtgctg gcaggatgct ccatgtgcat cattattttg tttaattctc acaataactc 180
tctaaatccc ttttgaggat aaggagactg gggctgggag aagttatttc aaggagtaaa 240
taaaaaattc agacccactt gggttttatg ccaaaggctc tgtttttaca aatacacaat 300

<210> 1481
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1481
aattcggcag ctccctcaaa gaaaggagaa ctaggaaaat gttttcgcca tctcccaaag 60
atgataggaa agttctgagc agggttctgg gtatagcccc ttgtgagaaa ttcaaggccc 120
aatcaatgcc atagatgagt tatatattcc aaatttacac tacttatgta ggtgtagtaa 180
cctccaaatc aataaattaa tataaaattg gcccaggact ggtgaaacct agagtcctgt 240
cagaagcaaa tacaaagcag ccctttaaca acagttttaa atttagggcc ttcaagaccc 300

<210> 1482
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1482
ctgtagtcct attttgccat atgacatgat tgaaatcaac acctcttaga aatagttttg 60
ctgcctcata attgattacc atcatgataa cctgtagtca gtgtgaaata gagataaaaa 120
ttaatgtact tagttaaatg catatgaagg tctaatcttg ttccagagtt actcttactg 180
gattattttt agatttttat taacattact ggtctctaac tttactcagt ctggataaga 240
aaaagaatac catgcaattg ttaactattt gatgtttact agattaacta ttaatatatt 300

<210> 1483
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1483
aatgtgtatg cggggctggt gggaacagcc cgggtggcgg gggtggatcc ctggtgtgag 60
cctggcttcc tgtctgctcc aaggggcgtg gaacaggacg gactcaggtc caaatccctg 120
gtttcctgtc ccttagtggt gtggccgtgg gcaaacgcct taacttccgt gagctttgac 180
agtctgtctg ggaggcaggg ctcaggcatc cctggcctct tggggttggg tgagagggag 240

acagaggttt gtgaagcgct ttgcacacct gggcatctgg tcagtgttca gtaaatgcca 300

<210> 1484
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 1484
gggccacgac taccaaattg gcccctaccg caagaacctg ctatgctacg accaccggac 60
agacgtgtgg gaggagcggc ggcccatgac cacggcgcgc ggctggcaca gcatgtgcag 120
cctgggtgac agcatctact ccatcggtgg cagcgatgac aacatcgagt ccatggagcg 180
cttcgacgtg ctgggcgtgg aggcctacag cccgcagtgc aancagtgga cccgcgtggc 240
gccgntgctg cacgcctnca gctagtnggg cgttnctana tgnaacngcc ctattta 297

<210> 1485
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1485
taggatcttt atgtgtggcc aactcattaa attttcagat taactcagaa atattgttcc 60
tttatttttgc acatgaggaa actgaggctc atatgttttt ttcttcttta ttttttattt 120
ttagagacag ggtctcgttt cattgccctg gctggtctcg aatttctggt ctctgggctc 180
aagcaatcct ctcacctcag cctcccagtt acttggagga tgaggtggga gaattgcttg 240
aacctgggag ggggaagttg cagtgagccg agattgtacc actgcactcc agcctgggac 300

<210> 1486
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1486
agaaagagtt gtgttggaaa tttgactttg gctaacccag aattgtatag tttctatatt 60
tttatttgtt tttaatgtta ccagatggtg gcagtagagg tggcaacctt atagctccat 120
ctggcagccg ggagcttatt ttagtcaaca caaactgtaa ataccatacc atagttatgt 180
tttacctgga agtcggactt agttccataa actgatcatt ttctgtggct tgtagtgttc 240
aaattgtata atattcctca taaaataata tagaaataca gaaataaaag ttataataaa 300

<210> 1487
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1487
ttttttacta tgtaccataa tgtcccattc atgagaacct agaagtagtt tttctcatta 60
gcgaatgcta gaattttatt ttttttcaca tagtgaaaag gtgaaattgg tctgtcttcc 120
tctttacttt agctgctagt aaggttgaaa caacgatggt gcccaaattt aacagttagg 180
tgacatcttc ttctacgtgt gctaagatta cccagacttc actttaccct tatttcccac 240
tgactttgat ccctttactt ggttttattc tgtagtatgg atttttttgca tcttttcagt 300

<210> 1488

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1488
gcaacgtgtg cggtcgggcg attccggagc ccctgcgtgg aggaactgct gggcgggagg 60
agacgccggc ggctcgggcg atggctgacc gcacacgttg ccaccctgag gtctttctgg 120
aagtggatat ctactcagac agtaagaatt ataagagctg taagagctca ttttggagga 180
ataatggatg aaccatctcc cttggcccaa cctctggagc tgaaccagca ctctcgattc 240
ataataggtt ctgtgtctga agataactca caggatgaga tcagcaacct ggtgaagttg 300

<210> 1489
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1489
ccgctgcctg cacggcgatg agaacagcga ggtgtggcgg agcctgtgcg cccgcagcct 60
ggcagaagag gctctgcgca cggacatcct gtgcaacctg cccagctaca aggccaagat 120
acgtgctttt caacatgcct tcagcactaa tgactgctcc aggaatgtct acattaagaa 180
gaatggcttt actttacatc gaaaccccat tgctcagagc actgatggtg caaggaccaa 240
gattggtttc agtgagggcc gccatgcatg ggaagtgtgg tgggagggcc ctctgggcac 300

<210> 1490
<211> 104
<212> DNA
<213> Homo sapiens

<400> 1490
ggaagaggga agaagagaag ctggttattt ctagaggatg tcgtaatcta catcacaggc 60
agaactgatg gctcagtggc tgagtggcca gtatattgtc tttt 104

<210> 1491
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1491
ctggatccag tccaggccag agcctcctct gcagagaagg tactaggtgc ccatgcacag 60
ggtgactgcc agcctcgtgg agtgggggca gtggtgtccc tgcgggcggg cttggtcttc 120
tgaggccatg tcagtgccac cccagggccg ccctccatgg cagtgtgggg ccaacaagcc 180
tgtcttccca ttttttctgag agaggctgga aatcctgttc tttttatata taaagtgttt 240
ccttttcaaa atattggcaa ctaagtaaat ccaaacaaag tatgggccaa atcatggcac 300

<210> 1492
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1492
gaccaaggag atgtgagtga aaatgatgca ggctgcttcc aggtgtgacc agtaagatac 60
ttcccacata atcttcctac tctttcttcc ctgtttggca tcccatgtgc taagaatggg 120
aaccctgagg tcctatatgt ggaaccataa ggtaaatgtc tttgggctct gaatctcaca 180
cagggctcac tgagaataag aaacatcctt cttgggcttt gtatgaataa gaaaatacta 240
gcaaattttt aagaaggaag taattccagt atttcacaaa cccttccaaa gaatagtaaa 300

<210> 1493
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1493
gaacctttga atagtggttg tacatacagt ttttcagagc tggtgtttaa taacaatatt 60
tttcattcta atattacatt attcttttta tcatttaggt ctttatccgt cagtgttttt 120
agagaactac tgcacttgac cacaaactga taaatacttg gtactgcccc atctcactgt 180
tctgtttact ttgtcttaaa tatctctttt ttttttccca ggcagctagt acacnactga 240
atcctttaag ctttcanngn gaatttgnna anctcaggat tgacctttta caagcctt 298

<210> 1494
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1494
gaaggcacga attgaattgt gggaacagga acattcaaag gcatttatgg tgaatgggca 60
gaaattcatg gagtatgtgg cagaacaatg ggagatgcat cgattggaga aagagagagc 120
caagcaggaa agacaactga agaacagcca ggctggtctt gaattcctga cctcaggtga 180
tccacctgct tcggcctccc aaagtgctag gattacaggt gtgagccacc acgcctggct 240
aattttgtat ttttagtaga gatggggttt ctccaaaggc tggtcttgaa ctcccgacct 300

<210> 1495
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(196)
<223> n = A,T,C or G

<400> 1495
ggatataagg ccaagagaca aaaaagccat agcctgaaag atttagcaat ggtggagtaa 60
tgtctccctg tgctgataca agcatgaact ttctggaata ttctgctagt ctgaaattac 120
agcaggttgt ctggggtagg ggggaggcgt ttttttttnt ttttnnaann agggnctncn 180
tnngncccnn aggggg 196

<210> 1496
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1496
ttttaacagt gtgcctttgg ggagggaccc atgtccatgg cttcgttgag ggccatccat 60
atgccagctg ggggccagcc cacagtggcc atattggctg cagcaggaat ggtgcccacc 120
tcggcgaatt gaagggctaa gagtcccaga tagctaggcc agagctggaa gcagacagta 180
aggggaagag ctgctcccac aggagaggga gagattccag ctcactgcgc agcctgggag 240
gaggcgtgga tcctggcacg ctgagcctca ggcaccagcc tccctgtgct cgacagcaaa 300

<210> 1497
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1497
agcaacccta gcaatagact gactctacta caaaacaatt tggttatttc tcttactatt 60
tctctattat atctgttgag ggaatgttat catgagcaca ggtattagtc ctatgctttt 120
aatcggttta gtggtttctt tgtgtctcat tttattcatt tgtaattttt ttaaagacta 180
taaaacttcc acagtttctt tagatcatta agttatatga ctcttttttca tgggggtcag 240
ttaacaatac ataagaaaac atttgttcta ggataatata tgacctaaca gtcttttgtt 300

<210> 1498
<211> 119
<212> DNA
<213> Homo sapiens

<400> 1498
gctagttcga gtttttttttc cttttactct ggtattgaca cattttctgt gatcattgtt 60
aattagtgac atagtaacat ctgtagcagc tggttagtaa acctcatgtg ggggaggtg 119

<210> 1499
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1499
gttgaaacac gaggtataaa tgaccaagga ttgtacagag ttgtgggggt gagttcaaag 60
gtccagagac ttctgagtat gttgatggat gtaaaaacat gcaatgaggt ggacctggag 120
aattctgcag attgggaagt gaagacaata acaagtgcct tgaaacagta tttgaggagt 180
cttccagagc ctctcatgac ctatgagtta catggagatt tcattgttcc agccaaaagc 240
ggcagcccag aatctcgtgt taatgcgatc catttcttgg tacacaaact gccagagaag 300

<210> 1500
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1500
atgatgtaaa gtctgaaata tacagctttg gaatcgtcct ctgggaaatc gccactggag 60
atatcccgtt tcaaggctgt aattctgaga agatccgcaa gctggtggct gtgaagcggc 120
agcaggagcc actgggtgaa gactgcccctt cagagctgcg ggagatcatt gatgagtgcc 180
gggcccatga tccctctgtg cggccctctg tggatgaaat cttaaagaaa ctctccacct 240
tttctaagta gtgtatcaaa atctaaacca aggagtctct ggacaagaag ctgggagagg 300

<210> 1501
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1501
caactcctga gacatacact cattgatgat tcatcacgaa atgtttaatt atattgagca 60
tgacgctagg accaggagga catttggaga ccgtattacc cagaccttac tttcatgtga 120
aacctttgga aaaggcacaa ctaaaaaact ggacagaata cttagaattt gaaattgaaa 180
atgggactca tgaacgagtt gtggttctct ttgaaagatg tgtcatatca tgtgccctct 240
atgaggagtt ttggattaag tatgccaagt acatggaaaa ccatagcatt gaaggagtga 300

<210> 1502
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1502
gttttttaaa gaacttgata aatttacctt aaaatttaaa taaagtatac tgaataacta 60
agtcaactta gaaaaaaaaa agtgttatct aagacaagtt acaaagccat caccaaagcc 120
catgatccgg cagacgacta caagcatagg gtcagatcca tctataaatg agagcctgac 180
atacttcatc tatagcaaac atgggagaca aatcagtggt aaaatgatac agtgtttggg 240
aagtgttatt tgaaagatgg gcttatttaa tgtatacaga tgaactcaat tcctctgtaa 300

<210> 1503
<211> 261
<212> DNA
<213> Homo sapiens

<400> 1503
aaaaagaaaa aaaaaattag ccaggcatgc gaaacgctga ggtgggagga tcagatgagc 60
ttgggaggtt gaggctgcag tgagccttgg tcatgccact actgcgttct agtctgggca 120
acagagtgag accttctctc aaaaaaaaaa cccaaaattg taaaattact tctatagcta 180
tattttatga taaagaagtg attgtttctc aaaatcgcat tttaaggacg ttttatggta 240
cttgttggaa ttgggactta g 261

<210> 1504
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1504
aaggtgggtg gatcacaacg tcaggagatc gagaccatcc tggctaacat ggtgaaaccc 60
tgtctctact aaaaatataa ataaattagc cggacaggcg cctgtcctcc cagctactca 120
ggaggctgag gcaggagaat ggtgtgaacc tgggaggcgg agcttgcagt ggcaccatca 180
tatagctcac tgtagcctca aactcctggg ctctagtggt cttcccactt cagcttctgg 240
agtagctggg gctactgcac ctggaattgt cttaatctgt tttaatacta ttaaaatttt 300

<210> 1505
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1505
aattttcctt atatgttctt tgacccttga attacttaga aatgtatttt ttaatttcta 60
aatacttaca ggtttaaaaa ttttgttttc aattactaat ttaattctgt ttcatcagaa 120
agcacgacca tcgtggcatt gaaacttgag ttatagccta ctatcatgat caatttaaaa 180
aatatatata tagggctggg tgcagtggtg cacatctgta atcccagtgc tttgggaggc 240
tgaggtgggt gaatcacctg aggtcaggag ttcaagacca gcctggtcaa catgacaaaa 300

<210> 1506
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1506
aaaaaaaatt gtggtgattc acacctgtaa tcacagcact ttgggaagcc gaagcgggag 60
ggtcctttga ggccaagagt tcaaggccag cctgggcagt ataatgagac cctgtctcta 120

caaaaaattt ttaaaagtaa agaaatttta agataactaa atactacata gtcatatatt 180
ttaaatattt attacataaa ggtaaaccaa atagaagagg aaataatgtt atgccctact 240
tcatatgacc aaaaactgga agatagtgtc tgaaaatgaa aatgattgta ttgggaaggt 300

<210> 1507
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1507
atgacttcct agctttaccc ggggtttttt ctgcaggtgg agaagggtgg agtcctccca 60
gatggttctt tctttgctcc cctaacagcc tttaagatgt ggctacttgt ttttcccacc 120
gtttaacacc ctccaacttc atttggagca cgggttcctc aagggatcct gagagctggg 180
tgctgggtgc tggtttggag aggcaggatg atgcttctcc cggctgggga gagcagagca 240
ggaaggctgg ttggcgccat gaggaaagag ccacgaggtt ttagctcccg aaccgactcg 300

<210> 1508
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1508
cctggctaac aggtgaaacc cggtctctac taaaaatacg aaaaattagc tgggcatgga 60
ggccggcacc tgtagtccca gctactcagg aggctgaggc tggagaatcg cttgaacttg 120
ggaggcagag gctgcagtga gccgagttca cgccactgca ctgcagcctg ggcaacagag 180
tgagactctg tctcaaaaaa aaaaagtgta gaaaaacttg actttaactt caaagtttaa 240
tttgaaagtt ta 252

<210> 1509
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1509
caggactcaa gatgactttc taaggtgatt tggggatgca gtgtatgcat ttttttactc 60
tttttgaaaa aaatcttttc ttcgcctttg gagtgtaaca tttggatagt tttattcagc 120
ccataatagg accaaaggga aggggataaa aaaaaattct ttaaagtacc tcagataaaa 180
aggttttgtg aagaaaagga ctcaaaatcc taggttatac caagacttta tgttcatttt 240
gaattttctt tattcatttt tttcctctct gtgtatagaa taatcaggag atattggtgg 300

<210> 1510
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1510
gggacattac cagtcatgca aaccaatgtg caaaatgcag gcgttgctgg gagcccagaa 60
ggcctactgg ccagggctgt cgatgctgaa tgtgcagcct gatgccaggg ggtgggcctt 120
gagtgctgcc cagccaggaa ctcctcagcg cccagaatac caatgaccct cctttccccc 180
agctccaggg cctctgcttc cctctccttt cccaggctct ctttgctttt ccctcctccc 240
tcctgggact gtaggcaaag cccctggcac ggacagtggg caggacagcc agatgcctag 300

<210> 1511
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1511
attatttaaa gcttattcaa tttaaaagac tacttgtaat tccggactta ttctttaaat 60
agttggtatt aaggtttctt ttgtaaaata agaggtggta gtatttttca atgcccttaa 120
ttaacaaaat taaaagtttg aaaaccatat gttgattctc cctcatttta aaaaattttg 180
taattccact ggtccacaaa aatcccaatt gaggagagct ctgggaagag cacattctgt 240
caatgggtct caacattttg gtctcaggac cactttacat tcttatttag gaaatgacct 300

<210> 1512
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1512
cttggatgta tggtttaata tgtatacctt ataattctgc ctctagccaa atgctatggt 60
tgcaaaatgt ggcatctgtt agtttttatt gtctgtgtct tctttgttta ctataccttg 120
ggtaattttg tgttaccaaa aaaaaaaaaa gggacgggta nggtnaaacc cccaaaaaag 180
ncaatncnng nttttancct naaannncnaa tntcaanggt natnnccaac natngggntt 240
ttttnaacnt tnaaannctt tangcnccnt atnntggccn ttnnnnaantt tgggggttgg 300

<210> 1513
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1513
cccactgaaa actgctgtct agaccaactt ttttttctat tatttttttt cttcttatag 60
agatgaggtc tcactatgtt gcttgcccag gctggtcttg aactcctggc ttcaagtgat 120
tctctcacct tggcctccca aagtgctggg attacaagcc tgagccacgg cacccagtct 180
cagaacaact gctattggtt catttaacaa actccattac aattttactt ttccgtctcc 240
ttttctagac tgagtctctg aatcatttct cccatatatt ctccatacct agaaaacacc 300

<210> 1514
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1514
cgccgcccca ctcgccccag ccgccgccat gaaggccgtg gtgcagcgcg tcacccgggc 60
cagcgtcaca gttggaggag agcagattag tgccattgga aggggcatat gtgtgttgct 120
gggtatttcc ctggaggata cgcagaagga actggaacac atggtccgaa agattctaaa 180
cctgcgtgta tttgaggatg agagtgggaa gcactggtcg aagagtgtga tggacaaaca 240
gtacgagatt ctgtgtgtca gccagtttac cctccagtgt gtcctgaatg gaaacaagcc 300

<210> 1515
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1515
ggatctcata gctagggaac atttcacaaa taaggtgaga ttttgtaacc aataataaaa 60
atgaatgttt ttataagtaa ataacttatt tttcatatgg ctaaagatgg taaaatgact 120

tcattctata gccattgtaa ataagaattt gctattgatg aaagaagttc agattggcat 180
ttgaagtatt gagtgtatgg gatctctaag gatttcttag attttatatt taaatatttt 240
ttaaacctta gaggagtcaa caaactggct cttgattttc agcaccctac tctcatgaaa 300

<210> 1516
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1516
cccagccata atggagcctg aaatcaggaa ttcatgtttc aaggttacat gtacaaatgt 60
atgccctctc agaacaatgg ccattttgag aaagccagtg agagacagcc agaccaggtc 120
ctctggccta gcacccacca gtgcctgcca gctcagccca agtctcctca cctaggatag 180
cttgatggaa taacaatgta ttttaatttt ctgtagacct aaaactgctc ttaaaaagtc 240
tattttaaaa atccatcatt aaaacacaga ctttctccat aataagaagt tggaggggct 300

<210> 1517
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

<400> 1517
tgctattgta ataataacaa taaagagaaa ttagaagtgg gagtcagggt agaaaaaaat 60
gcaaaggcct tggtccctag gagaccaaca ctccagctga gctggcctta gccccagccc 120
cttctaattt ctctttattg ttattattat tattttctct gctattgtaa tatttttttg 180
ttaattaaat gttttggtca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccngncccn 240
taaaaaa 247

<210> 1518
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1518
gtgttgctca gtgagcagac ccgactccag aaggacatca gtgaatgggc aaataggttt 60
gaagactgtc agaaagaaga ggagacaaaa caacaacaac ttcaagtgct tcagaatgag 120
attgaagaaa acaagctcaa actagtccaa caagaaatga tgtttcagag actccagaaa 180
gagagagaaa gtgaagaaag caaattagaa accagtaaag tgacactgaa ggagcaacag 240
caccagctgg aaaaggaatt aacagaccag aaaagcaaac tggaccaagt gctctcaaag 300

<210> 1519
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1519
tcatttctga tgctccatga tagagttgca aagcatgctt taaaaaatgc accttattct 60
gcattatttg caagtttact tgtggtgtga atgtttttc tactatttct actattagat 120
gtgaagaaaa gtatacttgg cttaaaatgt gtcacaccat gacaattagt cttctaatat 180
ttgcctcatt tatataaaat ataatacatg tttgtcagca tgtaaaggtc ctgggggcct 240
tgtacctaga gttaaagcag gcacaaagca gccatgacat tgtgacaaga tataccatgc 300

<210> 1520
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1520
gggacgtcca agatcaagag gccagcagat tcggactccg ctgagggctg tttcccgatc 60
catagatggt gccttctcgc tgtatcctca atggtagaag cacaaacaag caagctcctt 120
cctgcctctt ttataaggac tccaaccctg ttcatgaggg ctctgccccc atgacccaat 180
cagctccaaa ggccccacct cctaatactg tcaccttggg ggtgagaatt ccaatgtgaa 240
tttgcagggg gaggngnggn aaangnnaat ttcggggcca taccacccct caccacaccc 300

<210> 1521
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1521
tgaaggacct gcctgcggct gctttacagt ttgtttgttt ttttttaaaa taagtagaag 60
atatacacta aagtaatgat aaatgtatag tatagtaaat acacaaacca ttaacagttg 120
tttattttca agtatatgta ctgtacatta attgtgtgtg ctgtactttt atacaactgg 180
cagcatggta ggtttgttca caccatcttc tccacaaacc tgagaatcgt gttgttgcac 240
tgcaagtcat taagttagga attgttcagc ttcattataa tttgtgggaa cataagatgt 300

<210> 1522
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1522
ccccagccag ccttcagggt ccccttggat tgtgtagatg cagtctagcg gggggccgga 60
gaagggctca ggtgggaggg gcctcagcag gctcccagct caggggctgg cctgggggga 120
accctgggag ccaggggctg actccagcaa cactggcctg tctgcctgtt ctgggagggc 180
tgtgaggatg tcttgcagat gctctggatt tctgcggagg cacctccatt cctttctggc 240
ttttttgcg ggggagggct ttgggcctct ttctttgagg gaacaccgtc aaagaaagcc 300

<210> 1523
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1523
gaagaagctg cagaagaaat gaagaaagtg atgatgattt agattttgat attgatttat 60
aagacacagg aggagaccat caaatgaatt aatatcactg tattaaaagt ctgccgggca 120
cagtggctca cgcctgtaat cccaacactt tgggaggcca aggagggtgg atcacctgag 180
gtcaggagtt cgagaccagc ctggccaaca tggcggaacc ccatctccac taaaagtaca 240
aaaaattagc tgggcgtggt ggctcatgcc tgtaatccca gctactcagg aggctgaggc 300

<210> 1524
<211> 274
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 1524
ccttgtggta gttaccacaa cacatgcctc attaagaaac agcaaccatc agagggaatg 60
cctgcctccc tgttaccagc tctgcagatg tgcacatatc ttcctgtcgt aagccaatgg 120
gacttaaacc ttacctcttg tgttttggag actatctttt ttttttttt tttngaaaaa 180
gggncccnn gggtngctaa ggcngnaggn cagggggggn ancngggntn anngaaccnt 240
tnnccnangg ggtnaangaa nctntcnngc ntaa 274

<210> 1525
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1525
gaaaaaggaa agatggatat ggaagaaatt attcagagaa ttgaaaacgt tgtcctagat 60
gcaaactgca gtagagatgt aaaacagatg ctcttgaagc ttgtagaact ccggtcaagt 120
aactggggca gagtccatgc aacttcaaca tatagagaag caacaccaga aaatgatcct 180
aactacttta tgaatgaacc aacattttat acatctgatg gtgttccttt cactgcagct 240
gatccagatt accaagagaa ataccaagaa ttacttgaaa gagaggactt ttttccagat 300

<210> 1526
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1526
gctacttcat aaaaataatt tttttgaatc atatttggga atctagattt tagatgataa 60
tttttgccta tggctacttt agcttgcatt gtgtaaatgg ctgctagggc ctgcgaaata 120
gattttattt ttggaggggg atttgttttt caatacagga tgatgaaaga gatgaaaact 180
tttctaatat agtacaataa ttggctgtgg tcattttaaa gggatcagtt gcatagcata 240
tagtagatgc tcaataaata cttagtgtat caatatggct tctgttaaac attg 294

<210> 1527
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1527
ttttaaagta aggatttgtc tctggagttt aaatagaact acagtcaact tacatgaaga 60
attagaaaaa gtaagccctt catattttgt aaaacacatt tgcaggcatc atctcatttg 120
atcccaatgg aagccctgtg aagcaggcaa gatttggaca agtttcttca ttttatagat 180
gaggagatta agacttaggg tggcatctgt aggtgacatc cccactccta gcacaatcag 240
tcttttcctg gcagctgggc agacactgaa ccaactcaga gagtgaggcc gctgctcaag 300

<210> 1528
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1528

aagtgatttc ctctgctttt gtccaggcgc gccaaagaac gtggcgctta gtcacttcag 60
attcccttct gtctgtgatc ccctctgaga aataaagcca taaatatgct gagttctgtt 120
gacattcaca ccggaaatag cacagagctc caagtattgt ggtctccttt ccgattttat 180
tgctaaacag caagaaaaac agcagagggg ctttcctggc gagtcagaga aatgcaacgt 240
ggtttttttgt gtgtttttttt ttctccgcaa gacagaggaa actatctctt cacaccattg 300

<210> 1529
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1529
gctgggagta taggctgagt taggaagatt gcttgagccc ggaaggcaga agttgcagtg 60
agccaagatc gcgccactgc actcccaact ggacgacaaa gcgagatact gggagtatag 120
gcattcgcca ccctgggcaa catagcaaga ccctgtgtct acaaaaaatt taaaaaaaat 180
tagcctgtag ccctagctat gcaggaggtg gaggtgggag aattgcttga acccaggagt 240
ttgaggttac agcgagctgt gatagcacca ctgcactcca gcctgggcca cagagcaaga 300

<210> 1530
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1530
taaaaaacca ccttttgttc gaaactccct ggagcgacgc agcgtccgga tgaagcggcc 60
gtccccaccc ccacatcctt cctcggtcaa gtcgctgcgc tccgagcgtc tgatccgtac 120
ctcgctggac ctggagttag acctgcaggc gacaagaacc tggcacagcc aattgaccca 180
ggagatctcg gtgctgaatg agctcaagga gcagctggaa caagccaaga gccacgggga 240
gaaggagctg ccacagtggt tgcgtgagga ctagcgtttc gcctgctgct gaggatgctg 300

<210> 1531
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1531
ccaacatggt gaaaccccat ctctactaaa tataccagaa attagttggg cgtggtggca 60
ggcacctgta atcctagcta ctcgggaggc tgagacagga gaatcgcttg aacccgggag 120
ggggaggttg cacttagccg ggatcgtgcc gttgcactcc agcctgggtg acaagagtga 180
aactccatct caaaaaaaga tgagatgaac tcctaggttc aaatgatcat cctgcttcag 240
cctcctgagt aactgagata caggcacggg ccaccgtgcc cagcttgtat actgcacttt 300

<210> 1532
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1532
atccaactgt ggcttctccc aggaccatta cacttgtatc taaataccta cttgacatct 60
tcttttggat actgaataaa gatcttgaac aaacaaataa aaacagtagg ttgttgatgc 120
atgttacttt gcccaataga tatattctat cagaatgtga tttgtatata taatatgttt 180
acatattaaa ttttgattca attaaaattc tccacagggg agattctgtg gtaagttctt 240
tcgtaaatga agtaattatt ctagtgattt aagttcatgt tacttgtact ttatgcttta 300

<210> 1533
<211> 298

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1533
gtcagatggt agaaaatgaa ataattaaat agataccatt tgagttctgg gagccaggtg 60
aagaagtgtt tgtttgtttt tgagacggag tctcactctg ttacccaggt tggagtgcag 120
tggcctgatc ttggcgcact gcaacctccg ccttctgggc tcaagtgatt ctcctgctcc 180
agccttctga gtagctgggg ctacagacgt gtaccaccac acctggctac tttttgtatt 240
tttagcagag aggggatttc tccatgttgg tcangctggn tttgaactcc tgacctca 298

<210> 1534
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1534
gcaggacgtc ttcttcgaca tggaggccta cctgcccaag aagaacgggc tctacttgaa 60
cctggtcctc ggcaatgtga acgtgaccct cctcagcaac caggccaagt tcgcctacaa 120
ggacgaatat gagaagttca agctctacct gaccatcatc ctgctcctgg gtgccgtggc 180
atgtcgattt gtccttcact acaggtagtg ggtgtggccg tgtgtgcctg ggcctgggca 240
tgcagacgtc aggtgggggc cgggagagag ggatccaggg gacccggagc ctctcctgct 300

<210> 1535
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1535
gcaagagatt tcacagacct gattgttatt aatgaagatc gtaaaacccc aaatggactt 60
attttgagtc acttgccaaa tggcccaact gctcatttta aaatgagcag tgttcgtctt 120
cgtaaagaaa ttaagagaag aggcaaggac cccacagaac acatacctga aataattctg 180
aataatttta caacacggct gggtcattca attggacgta tgtttgcatc tctctttcct 240
cataatcctc aatttatcgg aaggcaggtt gccacattcc acaatcaacg ggattacata 300

<210> 1536
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 1536
cagcgatagc ccaaaggctc tgcagtattc cctccaatgg ccaaggattc cgtgtgtcat 60
ctgcaggagt gagtaggcct gctgtatttc ttgtaactgc tgggtgttac aaaataagtt 120
acaatgtttt acactttaaa aaaaaaaaac agaaggaaca tttgctttat tggttactta 180
ctagtttagc ctctaggtta tggcacagca tgctaaaaaa tcatgtgttt aaaagtaaat 240
gttggtaaaa tgctggcatc tggtcctatt gngttgatgc attttcactt ctg 293

<210> 1537
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1537
gaagactatg tagaaatgaa ggaacagatg tatcaggaca aactggcttc tctcaagagg 60
cagttgcaac aactgcaaga aggtacatta caggaatatc agaagagaat gaaaaaacta 120
gatcagcagt acaaagagag gatacggaat gcagaactct tcctccagct ggaaactgaa 180
caagtggaac gaaattacat taaagaaaag aaggcagcag tgaaagaatt tgaagacaag 240
aaggttgagc tgaaagagaa cctgattgct gagctagaag aaaaaaaaaa aaaaaaaaaa 300

<210> 1538
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1538
gatatgcttt agaattaagg tgagtggtat tatctctagt ttgagacaaa gagaagcgaa 60
gtaacaaaag gccacataag tgataaatag tggacctgga gtttaaacct gggatcccca 120
cctaaatcag aaatacaaaa tcaaccactt ttttgatgat ccagggtcta tgtatattta 180
ttacatgtat gtatatatgt atatatatac ggcatgtgta tatatgtaca tncatacnna 240
tagatgtgct tgtactagcg ttttttcccac caggatagtt agcctttctt cnccccttgc 300

<210> 1539
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1539
cccacttcta gggtatgggg gatgcagctt caagcccagt gcccagtgtc tccctgttaa 60
ctgcaggaat gccaagcacc tggccagagc agcccagccc caatatgctt aggaggagac 120
agagttccct ctgtatagcc tctgggacaa gaaaaagaaa acacaagaat gtatacactg 180
gaagatttgg gcctcctgcc tgccttctct ttgtttctgt tcctcttccc atctactccc 240
ctacgcccct tcaacctttt ttctctgtct gcttcacctg agaagaaagt gtacgaagag 300

<210> 1540
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1540
gttacctgtg tatgactgaa gtacatattc gttatctgcg tgagacagta cagattggtg 60
tatagtattt tacagccact tcattatatg ctatttccgt gtactggcaa aaaagagaat 120
aaaacttcct aggatataag tacctactgc tgttttggtg catgtccagt taggcttttc 180
tctttttatt tgtttgtgta cctgtaactc catataagca tatataatca tgttacatat 240
gtttaaaagg cgtcattttg caatgcagtt ttatcactag ttttttctct gtcaagggat 300

<210> 1541
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1541
gagagacagt gagagagaca caccatgggg cctgatatgg aggcacttac gtccaccaat 60
gctgtaacat ttgcattcgt taacaccctt tcattaattt attaaatcat tctccagtgt 120
aacttctgta gaattcccag tttttgcttt tatgaaattc tgtagttgat gaacctcaga 180
ttttacaagt aattgaactt aactacagga gaaggaggag aagaaggtgg agggaaagga 240
caagaaaaaa aagcaagata taacttttt tggttcccct cttttaatat ttttttctaaa 300

<210> 1542
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1542
ctcatttgtt tcattcacat tcctcacgtg caacaacata attatatttt aagaaaatgt 60
aactttgtta catcaaaata tgttgtctag taaaaagttg atattcagta gaacaaggat 120
catgtaaata aacatctatt tcacatgtac ccaaaagcat ttaaaaagca gaatccaggg 180
cccagagcat gagccaggga ggaggatgtt tttcttcttt tctctatttt tccctaaatt 240
gtgcaaacat aggtgagtct cttaaccttt ctgtgcgtca gtttttctac ctctaaaggg 300

<210> 1543
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1543
gttaggttgg acacagaagg ggcaatcaaa tttctgtatt cagatacctc ttaaaggtac 60
actgtgccac cttgctgcct ttgattgcaa atacaaagtt aattttcaaa aaggaaaaac 120
aaaacagctc tttttcctaa aacacatgtt gtacttcaga cctaaaattc taagtcttat 180
ttgtttctca cccatgagtt agatttaggt aatagtatta gtagagtcct tagagaatct 240
taagaggtca tttactccac ctctttcatt ttaaattggg gtatccaaag cctgaagagg 300

<210> 1544
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1544
tgcactccag cctacatgac agagtgagac cctgtctcaa aataataata ataatgaact 60
gagactcaga aaagatgttt gttcagggtt acaaagctca gacaggacag ggcagcattg 120
gaaaccaaaa ttggtctgac tcctaggctc atgctgtaaa tcacggtgca aggcttctac 180
tatctatgtt tttcctaaaa gaatgtataa atgaaaagat ggttaacata ttaagcaaaa 240
tatgttaaac gtcaaatgaa ctgtataaac gataaatgct ggagagttga ggtggcaaag 300

<210> 1545
<211> 245
<212> DNA
<213> Homo sapiens

<400> 1545
atcgattaac acttctaatg agtcaagtcc tagggttttt tggttttgtt ttgttgccaa 60
cgaggaacac agctctgggg gaatggtgtc atccacctcg ctttaaaaat aagcacatga 120
tggctgggca ccgtggctca cgcctgtaat cccagcactt tgggaggctg aggcgggtgg 180
atcacctgag gtcgggagtt tgagaccagc ctggccaaca tggtgaaacc ccatcgctac 240
taaaa 245

<210> 1546
<211> 189
<212> DNA
<213> Homo sapiens

<400> 1546
ccgccgccgc caccaccacc accactgcag caacaacagc agcagcagca gcagcgcctg 60
catagctcca ctctgacctg tgaaggaatg gggatgaggc caggagctag tgtctaccac 120
ggccacacag ggagcagtgt gggcccttag cccccaaggg gcctgctatg catgtggctt 180
tttttttt 189

<210> 1547
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1547
gaccctcatg ccaccagctt ctgctccagc ctttcttact cattaggctc tagtctcact 60
tcttattttt taaattgtga gtaattttca tgcttggtag ttgatttctt ttccatctct 120
gtatgcatac ttcctgcacc tagtaggcac ttgatttttt tttctttgaa tacacagcag 180
atgccatgta aactcattag tacttgcctc agaacactga attcttacct gtgttaaatg 240
catgaataca ttaaaaactt tttagtttta cttagaagta tataaagtgt aaactaatca 300

<210> 1548
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1548
gtccaggcca ataatcagtt ggttaagtga aaaaagtgtt taaagtgaag aattataaag 60
aaagtcatta tggatctcaa acttttactt taattgaaac cataaaaaca tatattcact 120
caccaatgtt ttatgcaggg ttaatgcctt ctctttaaaa ttggacttct gattggattt 180
ctacctcatt tttcttatgt aaacacttat agttcacttt tgatatttat gggttttgat 240
ttttgaaaca aagggaaaat gttaaaacat atactgttca gtaatgccac ctaatccatg 300

<210> 1549
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1549
gttgaaggta tgtgtcagtt ttaaccaggt gttgagttat ttgatcactc ctccaaagat 60
tatttaatag tttcaataat atctaatgat gtgtgggaaa ccgtagaatt tttcatacaa 120
actgggacaa atgaacatgc atactattaa aatacttcct acaataggca taaaatgggc 180
tttcttaggt gaaccaggag gtatagttag cctaatcata tgctatgatt attagtaatg 240
gttttctgtg ttttatcatt catatttgta aatctttttt gaatgactac ttggaaatga 300

<210> 1550
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1550
atttatttgc cctatttcct ccatgtacgg agacattaca gcaacagccc agtcagattt 60
ttttcatgct atcttttagt cagatttaat ttaatgtgta tttctagttt attgcttctg 120
ccatgtttta ttctttatga agatccccga gtattgagtg tgccagttac cagattctct 180

cccagctcta aattacctct tcattacttg atctgcaata ttggagccta acccctttagg 240
ccaggggtgt ccaatgtctt ggcttccctg ggccacattg aaagaattgt cttgggccaa 300

<210> 1551
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1551
gcaggtcccc tcccacatct aatccaccac taaggcctgc ttcttaatag ctcttgttcg 60
gctttggttg agacagggtt ttgctctgcc gcctaggctg gagtgcagtg gcgtgatcac 120
tgcagcctcc aactcctggg atcaagcagt cctcctgcct tggccttcca aagtgctggg 180
attacaggcg tgagccactg tgcctagcct gaatagctct taaatctatc cacttttctt 240
cctctgcaca cctgacaccc tagtcctgct gccctcttct ccacctggac aacctcgccc 300

<210> 1552
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1552
gcgtcgctaa ggtataaaac ttgaaccatg attttacatt tccagttctc aaggacaggc 60
tttgaattta atttgttgtt aagagtaatt agcaattcta gggaaaaaaa agctattttt 120
attttctcta cctcctaaca caaaaggtaa cattcatctt ctaggaaggg aaactcttga 180
taactctgtg tctttctagg tcagccacag actacactaa gtcaccaact ccaaagggga 240
aatttggctt tttggtgagt acttgtgcta gagaacagta gaatgcataa tctggtcagc 300

<210> 1553
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1553
cttagaggcc ttaggcaggt ctactgggtc tcccaagctg agacctgtta ttcccacttt 60
gcagacagaa taggtcctaa gaggtcatcc aagaccacac agactgcaca gaacagctga 120
ggtgggaacc ggggacttcc ttctcatatt ttttgaatga attaatgaat gagggattgt 180
gagaatgggg ctggcctgtc ttatgcagcc tctccgagag tggcccaaga actctgaaat 240
ggtcctggaa gtagagagag aaaatggaaa ttgacagttt aggactcaac agccacaaag 300

<210> 1554
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1554
gatacatcca aatattattc atgttatagt aaatcagatg aagccttgag cttctcagca 60
gccacgtaag gcttaaatat gagggaacag gggctcttag aagtgaagtg acttctgaaa 120
gatgcacaga gaattaggaa agagtctgaa ttcaaccctg gaaccctgac tttcaggtga 180
gtgcctggcc cactaaagaa tgacaaagcc atggggagtg gcatggaaag catgagcttt 240
ggagttagac aggcctgggt gtgaatcctg gtcaccccag ttctgttaaa gacctcagaa 300

<210> 1555
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1555
gctttatctc taaattagaa tcacaaatgc gtaatctttt cagggtaaaa atgtgtcatc 60
tttaaagtct gtttcagata tattttaaat tactatttta aatgaattca tatggaaaag 120
tcgtgggagc ttaaggcctt gtttaaaagg gaaaaaacaa ctgagtcttt ttagattaat 180
caaaaactat cctcttcctt tggagaggag agagtgtttg tcacacgcgg aatgaagtgc 240
catgttcttt gaggcacgat ttgtatgcca tttggaggag ggagtccgtt caagagaatg 300

<210> 1556
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1556
caagattggg ctatggaatt ggaaggcctg ttttggagta ctctaaatta aaaaaaagtt 60
atatttgtaa aataaccacc acaagattgc ctgattcaca gttcttctga gtattggcgt 120
aggtaattat ttaagatgtt tgataaattg taaaatgctt tttacatttt ttaaggaatc 180
aattgaacta ctggaaacca gtatgtagta ttcttggcag gtctaggttt cataatccta 240
atttctttgc agcccactat tcagaaatgt agtgattaac agagtcaaga atgtttcagg 300

<210> 1557
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1557
gtgattccta tttcaatatg tgaaacactt aaccaaagaa tatatttcga tgaatcttaa 60
acttgcctta aaaacagaag aggttaaaaa gaatttagaa aaaataaagt tttagagtgt 120
ttgagaatgt gtatataaaa tattttcaaa gccataatat ggatgctctt atggctcaga 180
agcatgccta ctagaacacg tctcggaatg agagatgttt aattctgtca cctcccagaa 240
agttttgcag ggtttctcac ttgaatttgc ttccctttgc aacctcttgt cctgaaggcc 300

<210> 1558
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1558
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gccacgccca gcagtggtga gggacccaca gattttggaa acgacctgga cacactattg 120
ggaaggagat gtggacggcc tgtctcctcc tgcagggccc accctaagaa tgtattttta 180
aacacatgaa ataagtattt ttcactgata aaaaaaaaan aaaaaanaan ttnnnccntt 240
taaanttntn gtgggntttt tnacnnannt ncaaactngn aagaanttcn tngtggattt 300

<210> 1559
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1559
agtaaattca gtgtttctgt tgccgaagag tgtttattgg ttctttcact ttcatttcat 60
agggcccttt cttctactgg cattctcact ttgaattact aagaagtttc ttctaatatc 120

cctctatctc ctttttcttt ctagttttag ataaagctgt caaaagaaca gttatcatag 180
aaatagaaac atttaaatta ccggcacgat agcttatttc ttgctgcaac cattcagaat 240
atctatttgt cactgccttg ggtgctttga agtgaaactg tgcttagata taaaaagttt 300

<210> 1560
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1560
ggaacgttga ggaggacttc aaaccagctc cggagtgctg gataccagca aaggagacag 60
aacaaataaa tgggaaccca gtgcctgatg aaaatggaca cattcctggt tgggtaccag 120
tagagaaaaa caacaaacag tattgctggc attcctctgt agttaattat gaatttgaaa 180
ttgccctggt actaaaacat catcctgatg attctggact tttggaaatt agtgcagtgc 240
cactttcaga tctcttagaa caaacactgg aactcatagg aacaaatatc aatggaaacc 300

<210> 1561
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1561
gctgcctgtg gcatagccac tgctgtacgt ttttggttgt ttttaagaaa ctcgatgaag 60
aggggtgtca ttctgggctc ggggtggttg ccaatttttc accagaaagg gagccacccc 120
ttgcaaccac ttctgtctcc gttagccccc cctctgccct cctccaagcc aaagcgtggc 180
ctggcttttg tcttcccatt tagttttcct cttttaccct tccttttgtg cttaatttat 240
taaaatagtt gctgtataat ttatttttcat aaactataaa aaaatactaa atggttaaaa 300

<210> 1562
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1562
atctgaaccc atgaagttga gtaaaaaaag caatttgcag aaggatacat acaaaatgac 60
accatttata tagtagactg aaagcatgca gaacaatcca ttgttgttta cgtgtgtaac 120
agtcatagga atgacaacca ctgccttcag aattatggcg acctctgcga tggaagagaa 180
tgggatcaga gaaggataca caataggctt taactgattt tgtgattatt gatattagaa 240
atgtttaaaa ttaagatatt aacatttcat gaagctgagt ggtgagcaca ccagtgttat 300

<210> 1563
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1563
tacatatttg tcataattac aataaaatac aaagagctat tttggaactg ggcaagctgt 60
ttctaaatgt atatggaaaa ataaaaatgt ctccaaaaaa tccctgcaga gggaaactag 120
cccttccaga tataaaatat attatagaac tgtgtaatta aagcaatatg gtactggtcc 180
ataaaagaac ataaaaccaa atagttcagt agactcaaaa tgcaagcgtt ggtgagggta 240
tggagaaaag ggaacccttt tacacttggt gtgaatgtaa attagtacag acattgtgga 300

<210> 1564
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1564
gtttactatt tattgaatga tgagccatac tatttaaatt aacaaaatta actgacttaa 60
cgaaattatc tccagaaaaa tactcttgga aaaaagtcat caatgttcgt ataattctga 120
tattttaaaa aatcttttag attaaaacaa agggtcaaaa cctccataga gtcaatgcta 180
aatgggtgaa aatgtgacat aaaaatgccc tgtgttcacc agattgtcat atactttatg 240
taactcacct cagttattat tatgcctact acacagatga aaagactgaa tctcaggaaa 300

<210> 1565
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1565
atttaaatag tctgtcttta agagtagctc tgagattttt ttctggtaaa tcactattta 60
acctctctga tttgtttagt ttttctcatc tataaaattg aaatgataaa atgaaggtta 120
aattagaaaa tgtagaaaat gcctagaaca gagtcttgca tatggttggt actaaagtgt 180
tttgttcccc atggatagta tcttctctta aagatccttt gaaagggctt taaagtgaac 240
cttgtaggat ggtaattttt gttcatttta attttttag taagttttga ttgagatctt 300

<210> 1566
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1566
atttagtcac tagctataat acatttagtg aacaaatgta gtcttgcact aaaattagag 60
aatacctatc cttttcaaga atacataaaa taatgaccat atatatacca cagagtaagc 120
tgcaaccaat tctagataac ttaaatacag accatgtttg gaaatttaag aaaaaaaaac 180
acatttataa cttgtggatc aaaaaagtca tagaacttag acaatacttg gaactgaatg 240
taaatacaaa tgctattaaa atttgtagta tgcagttaaa caggacttgt atacgcattt 300

<210> 1567
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1567
gtttaatctc tttaactatc aaattgcaat tttttttttg ccttgcaaat aaacaaatta 60
caattgtcat ttactggtga gacaatgaga aaaagacacc ctcaaacact gttggtagaa 120
cacaaattgt taaaatcttt ctaggagtca ttttcaaatt atgtatcaat gacctaaaaa 180
tatttatgtc tcctgttctt atacttccag aaatctattc tacagtaata accggagata 240
aaaaccttta catataaaca tgatttatta tactgaaaag tcaaaacaac ataaatatta 300

<210> 1568
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1568
gtgtaggccc ccatcgtccc tcattactcg ggtttcatat tttgctgttt ttgatggaca 60
tggaggaatt cgagcctcaa aatttgctgc acagaatttg catcaaaact taatcagaaa 120
atttcctaaa ggagatgtaa tcagtgtaga gaaaaccgtg aagagatgcc ttttggacac 180
tttcaagcat actgatgaag agttccttaa acaagcttcc agccagaagc ctgcctggaa 240
agatgggtcc actgccacgt gtgttctggc tgtagacaac attctttata ttgccaacct 300

<210> 1569

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1569
gtgattagga gtgacagagt aggtaaagca gacatcgtct ctgtaataaa tacacatggt 60
gataagtgct ctgatgaagt aaaatagagc actgtggaaa cacagaggag ggggtggaaa 120
aagtcaggga agtctgttca gaggaagtca catgtgaagt tagtgaagtg gggaagcaaa 180
tgggtgcggt gggaaagaga gtagttcctg aaaagggaac agcatgtaca aaggcctaga 240
agcaaaacat tgtatgcaca tagtaactgt ttaattggat atgaatttta aaaatcacat 300

<210> 1570
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1570
gccacatcgg gggcaccacc ctccatgcct ttgcaggcat cggctcaggc caggctcctc 60
tagcccagtg tgtggccctg gcccaaaggc caggcgtgcg gcagggctgg ctgaactgcc 120
agcggttggt cattgacgag atctcaatgg tggaggcaga cctgtttgcc agtggccagg 180
cctatgtggc cctttctcgg gcccgcagcc tgcagggcct acgtgtgctg gactttgacc 240
ccatggcggt tcgctgtgac ccccgtgtgc tgcacttcta tgccaccctg cggcggggca 300

<210> 1571
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1571
ataaggcagt ctctcaaaag tcatactgcc agagtctcta gggcaaggag aaacaactag 60
ctggacaata ctcaattcac aacttagcat tttgccatct gaagcttggc aaactagtat 120
ctgctgtaaa acaacctata tggtatgtga accgtagtat tcctgagcaa aacgtggctt 180
tcatcgcttt gtaaaaattt gcatctgttt agaaactagc ctataaaata tcaccattgg 240
atgtagatat ggagagaaaa gaaatatgtt gggtttattg cttagcgaaa tattctcttt 300

<210> 1572
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1572
gctatgtgtt ctgactttgt tgattcaaat aagtaagcta aatcaattta agccattaat 60
aggtttataa agttatttgc tatgtgttgt tcttacatca ttgattcatg taagtagact 120
tgtgtgacag ctaattctta aaaaattatg aagatgttag acttcttttg atatatatat 180
gttgattgta tgaacagatt gacatcaata tacttattca ttataaaaga tttgagtggg 240
aactcaccaa atcccacacc aaaaaaattt aaaattttac catagtaaaa aaaactaaaa 300

<210> 1573
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1573
gcacaattgg tattcaaacc caagtctgtt tgactcccaa acccatactt tgaacctgaa 60
gtctgtactg ctgaaagttt ctccttattg aagaatttat attttgcatt aatttatgtc 120
ttcagaatta tacaaagtat tgggccacac caaatttgag tctggtatag tagccttctt 180

gtaaaaaatt atatcatata acatttttat gactgtgaag acctcttaat tcttcaggaa 240
ggagggccct ttttcaaatc agacatcctg gggtttttac tgaccttatt tcattctctg 300

<210> 1574
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1574
gtggtcagca gtaagatgga agaaagaaag tcaaagctgg aagaggccct caacttggca 60
acagaattcc agaattccct acaagaattt atcaactggc tcactctagc agagcagagt 120
ttaaacatcg cttctccacc aagcctgatt ctaaatactg tcctttccca gatagaagag 180
cacaaggttt ttgctaatga agtaaatgct catcgagacc agatcattga gctggatcaa 240
actgggaatc aattaaagtt ccttagccaa aagcaggatg ttgttctgat caagaatttg 300

<210> 1575
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1575
atgacatagt ggatctgaga gcacttacag catttctgca ccatgttcag tacttgaatc 60
tgaatctaaa gagagggctt tattggatca ctattctggg ataatattga aataacaact 120
aataacaata acaacaattt ttgttttgtg aaaaaataat acaaccaaat gaaaatagat 180
taatcaaaac agtgaaaacc ctgtcccctt ttctgagctt atgaaaagag aacctaatta 240
gtaggcattc tttttatagc taatgtgcta attgcctcag agataacacc tgtgtaattt 300

<210> 1576
<211> 276
<212> DNA
<213> Homo sapiens

<400> 1576
atcattctgg atttaagttg ctttgtctct tgattgctca tgaacattcc tatgtgagta 60
aatattcttc ccaatgtgat ttttttcttg ttgttaaaga caggctctgg ttttatcgcc 120
caggctggag tgcagtgaca taatcatagt ataagcatag ctcactgcag ccttgaactc 180
cagggctcag acaatccacc ttcctcagcc tcccagggtc ctgggattac aggtgtgagc 240
cactgcactc tgcccccaac atgatttttt tttttt 276

<210> 1577
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1577
ctctgttcag aagcccctga ttttgctcca gcagcactct cacccttttct agtgagtaag 60
tacactggat tttaaatccc tagcacctag cactgtgcct gggcagccca gcataggcac 120
tcaataaata tgtgaatgaa tgaatgtgtc tgtctgtcag tcagtcagtc agtgtttatg 180
ggatctgagt gtattcacta gtagattcta tgttcttact tggcttcaag aacctgtgaa 240
tgaataagga tcaccactgt aaactaaaaa caaaatttta agccatcagc tgactgaaga 300

<210> 1578
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1578
aaacaatata actcaaatgc ctttctacag gactacaaag ctgtctgtat caggttatgg 60
agttaaatca taatttctgg atcatgatct taaaccttta attggttcca tttctacttt 120
actctttact aacaagtatc ctgatggcct gaaaatccat gttgaaattt gaagtttgaa 180
ttttccagat caaatatgaa atttatttttc atttttaaa gtacaaaata tcagttgtat 240
aatcatggta aaacataaaa ttttgctata aaagattttt aaaggctatt tgattaaaac 300

<210> 1579
<211> 78
<212> DNA
<213> Homo sapiens

<400> 1579
ctcagaacca ctctgtcgtt tttaagcagg gtcacacact ctagctcact gggtccattt 60
taatttctat taaacatt 78

<210> 1580
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1580
gccaggctgg tcttgaactc ctgacctcag gtgatttacc cgccttggcc tcccaaactg 60
cagagatcac aggcatgagc caccattcgt ggccagttgt tagttttga gatagtgtct 120
ccagtttaca gatagggaga ttgaggctta gaggaggcac atagtggcag aactaggatt 180
tgaatccaag tctgttttcc ctccaggacc caagccctta accactgtgc atttttaaaa 240
tagccagagg aggactcatg accaccacct ggggatgtga gcaaagccag agtccagaca 300

<210> 1581
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1581
gaccaacctg gctaacatgg tgaaacccca tctctactaa aaatacaaaa attagctggg 60
cgtgatggca tgtgcctata atcccagcta cttgggaggc tgaggcagga gaatctcttg 120
aacccgggag gtggaggttg cagtgagcca agatcacacc actgcactcc agcttaggca 180
atagagcaag actctatcac aaaaaaaaaa ngagagagag agananataa agaggtntnt 240
tgggacantt anncatnttt cctacatttt ctctttttt caaagcccan aatccttgc 299

<210> 1582
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1582
tttaaaaagc attttattat gtattatgaa atatttcaaa cataaaaaga tgtaaagact 60
atctaccaat gactcccccc ttaataaaac aaattaacct gaaggctgtt ttgtgccccc 120
ccttgattgt gcattcacct cccaacccct cgctccttgg gcaactgtta tctttgttat 180
ttgtcattgc cttaacatta gatttttta ttactgcttt tgtaattcta atgatatcaa 240
atggaaaaaa tattttgaat gcaactcctc ttttaatttg ctccaatttt atctgtattt 300

<210> 1583
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1583
gagcgacaga agcttctgga aaccatgcag cacttgcagg aggaccggga cagcctgcat 60
gccaccgcgg agctgctgca ggtgcgggtg cagagcctca cacacatcct cgccctgcag 120
gaggaggagc tgaccaggaa ggttcaacct tcagattccc tggagcctga gtttaccagg 180
aagtgccagt ccctgctgaa ccgctggcgg gagaaggtgt ttgccctcat ggtgcagcta 240
aaggcccagg agctggaaca cagtgactct gttaagcagc tgaagggaca ggtggcctca 300

<210> 1584
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1584
ggaagagctc gtcttggagt ccaagctttt gccacttcaa ttgcaccagc tccaggaacc 60
atacaaccat cttcaatggc atttttgata gcacgaagtc catctcttat ggcatccttg 120
acttgtgtga gagtatgctt atttggtcct ttaaccaaca aggtaacaga gcaagggtta 180
acacactcct caataaaagt gaacttttct tcacctaatg tatactcata cacaagacca 240
gcatgtccca agcaatctac agtgagatct tcaaaagaat tcacggccat tccaccacaa 300

<210> 1585
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 1585
ggtaaagctt cattcagtat ccattcaccc aatactggtt tgattctagg gcctaggaaa 60
ataggactga gcaaagccct tgtccagatg gaacttatgt tttagagggg aaaacaaacc 120
ataaaaaggt aaacagtata aaatcaggaa aggataaatg tatatgaaga atcaaaatga 180
ggacggtgat ggggataaga ggggaaggnt ttnnatnacn ncnngntnng aagngnaant 240
ttacncnntg tcgnnntntt ntgnnctacc atggt 275

<210> 1586
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1586
atgggagcca tgggcagtgg tcctggctgg tgaaatgatt ctagccacgt ggcccaccca 60
gggggcaaaa caatagaaac cttcagaaat gaaacgtcac ctggctgcaa gaagatagtc 120
ccacaggcgc cctagagatg gggatgccaa gtggcttctc gggaagctgt aagaatccac 180
agggcattgt aagatggagg gaaatattaa gttttcttcg taaagaggtg agggggggcga 240
gagcagcaaa ggacactgga aaatgagaag catggatggg aagtgttgca ttgagcataa 300

<210> 1587
<211> 300
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1587
gaccaacctg gctaacatgg tgaaacccca tctctactaa aaatacaaaa attagctggg 60
cgtgatggca tgtgcctata atcccagcta cttgggaggc tgaggcagga gaatctcttg 120
aacccgggag gtggaggttg cagtgagcca agatcacacc actgcactcc agcttaggca 180
atagagcaag actctatcac aaaaaaaaaa anagaganag agagagataa anaggtatat 240
nggnacaatt agtcnttttt cntacatttt ctnttttttt caaagcccaa aatccttgca 300

<210> 1588
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1588
aatcaatatt tttcaataga agtattagag gtttttttta ttgatataaa aataacaatt 60
acagatcctg atatatagaa gttattcaaa attatacagt tttcaaaaaa tcaagacaag 120
taggcccaat acaaactact gaatcatctt ctaatttccc tctaaaatat ttatagaaat 180
atgtaagtag aaaaacattc atcctttcct cgtctaatta tgatcctgcc atattccagg 240
cacaagagaa agctctgggg cttgagtctt aatagggctg atagtccaac caggggacag 300

<210> 1589
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1589
ctggagcatt ctaaatgtat cactaaatat agaggagttc taattctgac aggaattctg 60
tgagggcact ggtagtatcc tcatttaaca gatgaagtaa tttgagatct ctgctggaag 120
gtgatggagc tgtgatttga accctggtgc ctgattccaa agccatggct aagaataaat 180
aattcagtcc actaaaatac ctaactttgg caagccttgg aaacagagtg cagaagatta 240
atacagattg cccaggccag tacaagcagc tatacagaga aaataagtag gtgctaggat 300

<210> 1590
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1590
gccctctgct tcctggctga ccttggtgtg gccctctgat ggcactatgt gtcctcttct 60
ctgagctttc tgaggatgac aagccgtctt ttcaatggga ctcccttcca gacctgttgg 120
tctcaccata ctggaatcat cataaagcct gtattgtaaa acatcattgg tgtctaaagt 180
ttgcacaatg ctatggcccc cacattaagg gagtctgggt gagatcactt cattgccccc 240
acttctctga ccagaaaaca caagagttca tgggagacaa taataacaac aacaaaaaca 300

<210> 1591
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1591

gggaattctc tgccttttgg ggaacagtta cagaggacct actaaaccct tggctggtgc 60
caggccccga gaccacagag ataacctggg acccaggctc tgcccatggg gagctcccag 120
ccctgtgagg aagacaggcc atcctcaccc agcacatcct actgtacccg aagagagggc 180
gcagtgactc atttttgcc gttggcatta ggtttaaaag atggttgaac gtccacagaa 240
ggaaaaggaa ttcctggcag agggccctgc ctgagcatag gcagggaggc tgagcagcca 300

<210> 1592
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1592
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aaggcgctca gaaagttgct gacagcgtcc gtggaagtac cagtggactc tgctccagtg 120
atggaagaag atactaatgg ggagagccat gttccccaag aaaatgaaga agaagaggaa 180
aaagagccca gtcaggcagc tgccatccac cccgacaact gtgaagaaag tgaagtcagc 240
gagagggagg cccaacctcc ctgtcccgag gcccatggng aggagttggn gggatttcca 300

<210> 1593
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1593
gtaaattcct gggttccagg ctcaagcctt ccactgtatg ctccatgtta ccagctatgc 60
cttttgaacg ggagatgttg cataaataat tgttgagtat gcactttaga ttctttgcta 120
acatcacatt tggtgaaact ataaaataat tcccatgaaa attggattgc ttaatatcat 180
aactgatatt taataatatt taatattgct ctaaaatttc tggctaaaat gaaaatattc 240
aaccatcagg aaggagaaac aaaactatta ctgtttgtaa acagtttatc atcagtactt 300

<210> 1594
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1594
acctgtaatt tcaacatttg atgagtcaga gaaaaaaagg tttcctttgg gtcttatttg 60
atcactattc tgttaatttt aagcaagctt gtagtaaatt gatctatttg gatataaata 120
ggttacatga ttatcagtac tagagaccca tgtatcctat ttatttacaa aagaatatta 180
aatatcctat tttaattttt atattacagc ctattttgat tttttagata aaagtctaga 240
gcttttattt taatgaatgc taagagatca gaatgcactg gcattctctg atttaatagt 300

<210> 1595
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1595
gttaggtcca ttttgatgtt acaggatact tgtaagtgac tttttgccat tctcttttgt 60
tacccatggc ctttgtcacc cccttgaata tctcttttac tcagttctca ctttctgttg 120
ttgacatact tgttgacatg tcccaccagt ccatgaaatg aaataccata tcttccttgt 180

gttgatatta cttttgtgag tatttaagac atatataata aacaaatgta aaactttgga 240
aattgattct cttctcatta aaaaacattt aaagggaaca tttagaatat ttgtttacat 300

<210> 1596
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1596
gaaaaaacaa agtaataact taggccttga tcaaggattt tagcacctaa tgtttgctaa 60
gcttagctgt ctggtgcaga aatacaagac ataaatatta tttcgtagac agttattatt 120
tccttactgt gaatttagca gaatttatag aagtcttttg ggtagtaagc tttggttaaa 180
ttatttgttt ttaaaaaatc gcagttcatg aaacatttct acttattaaa tacaatgtga 240
atactatatc tattcttgct actggtcata attgttagcc ctctcccatg cctcttctcc 300

<210> 1597
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1597
actctggcac agccagagtc attggtcttt caagcagtca ttcatatcag cgactttaga 60
agaactgaaa gaataggttg atactgaacc cactcccaga gccaggtagc tgaaagggca 120
ctgtgattgt tatcttacta ggaacacgtg gagtgggagt aaggcagttt tctgcagaaa 180
agagggattc tgggcagaca aaaactacat atgcactatg ttttgttttg ttttttgtt 240
tgtttgtttt aaattaaaac cagaaaaggc gaagacttgg agaatgctca aaatttttt 300

<210> 1598
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1598
gtaagccata tagtctgtcc agaccactga attcctttgt tgtaggctga acagactaca 60
acaaatgggt gtggtataaa catagaacca gtccaatctg gttcagcttt gttagtaaca 120
aaatgtaaca aaatgatgag tcgtttttca gtgcaatgga cccccagggt gcaagtcaca 180
tatcgctgga gcattaacag atgaacaaag catgcccaat tcataaccct tgggtggaat 240
gaaaaagtca actacaggta gaacccaagt actcggatca aggaatgggg actatgctgg 300

<210> 1599
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1599
agtggctggg accgcaggcg cgcgccacca cacccaacta atttttgcgt ttttttgtgg 60
agacggtgtt ttaccatgtt ggccaagctg gtgtcgaact tctgacctca agcgatccgc 120
ccgcctcggc ctcccagaag gctgggatta caggcgtgag ccaccgcgat tggccgcagg 180
atcatagttc actgcagcct cgagcagcca cttccggggc agctcctcca ttctctgagt 240
ttgagacttg ctctcatctc agatcccttc agagctctnc tggctgaacg accttgggaa 300

<210> 1600
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 1600
agattncccc cntnncctnc nnccnnggnc acnaaanggg aantntnnnn nnaaaaaaaa 60
aaaaagaggt gggtggatta cttgaggtca gggtttgaga tcagcctgac caacatggtg 120
aaaccctatc tctactaaaa atatagaatt agacaggcat ggtagcgcac gcctgtaatc 180
ccatcttctt gggaggctga ggcaggagaa tcgctagaac ctgggaggtg gaggttacag 240
tagccgagat cgcgccactg cattccagcc tgggcaac 278

<210> 1601
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1601
actggttaaa tagcccttga tgacttttca tgtggcatga gagggatatg cttataaagc 60
ttaattctga tattatcctc ttactaccta cagtatgttt tgcaaaaatc agtccactta 120
gcaaactaat ctttgtaaag cagtcagttt cagaagatac tttttatcaa aaaagatggc 180
aggtttaaca ttataccttt tggtttttgc ccaacatttg atttaatcta aagcaagaat 240
ataaaataat tttaagaagc atataatttc ttttgataaa aagtaacaaa aatttaatgc 300

<210> 1602
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1602
tttggtcagt tgcaccttct gggtcactgg tagcgcgcgg gagccgggtg gggcctaggc 60
gatgatccgg cattaaggag ctgggatcat cctccgtctc aggtggtttg gggaaagtgt 120
aggggcaacc aaagatcatc ggcttgacta ggccctttgc cctgaacctc atgaagaaat 180
gataggaggc agacatatgt gcctaaaaag agcgttgagc tcagacagga gcaactcggn 240
ggnnngcggn ngncantttg atttgngncn tcnncggcag ncncatccnc cgaatcac 298

<210> 1603
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1603
caaagatcta atgagtcaca ggatggggga tgaaattggg aaaggtctgg attagcagag 60
ttgctgcaga aagaagtaga ggggaatatc ttagaaggca cttggacaga atgggggtga 120
tataaaagat gtatgctgtc atttttgttt tggctcctag aaaatatagc agaaagtgag 180
aatttgtgcc atacatcctg ttctgcacct taatatggaa gtttgccttt ccacacgagt 240

cttccttcac aattaacctc taatttttt tttgcagttt tctccagatt ttggaagatt 300

<210> 1604
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1604
atataaaact gaagggagag actgggagag agcttcacag aagagatttt tgggtcagat 60
gctgaaagac taggaaaatg tagtgcagag atggccggag gagagtctgg agttccaaat 120
agttgcctgc tagggaaggc agggagaggc tatgccgtga aggatcctcc atacacttta 180
aggattttgg gttttactct gtatgtgatt tggagctcct gaaggatgtt aatgaaaaga 240
gtgataggat tggatttgct tttggaaaga tctccatggt agcacgttct aaaatgggtt 300

<210> 1605
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1605
ctttagaggt aaccagtatc atgactttaa tggtaattat ttatacaatt tttaatataa 60
ctttgtcact ttacgtgtat tcctaagcag tatgtttact tttttcgcct cattttaatc 120
tttatgaatc gtgtattctt tcttcctttg ctcagcatta tgttttgaag agttatccat 180
gtagttatgt gtagttttat ttcattcatt tttgttatta tgtattatcc ctttgaatta 240
aatgtgccag aatttattca tccattctgc tgttggtaga tcattgagtt gtttctagta 300

<210> 1606
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1606
gcagtacgtg tgccgtgagg ctcatagttg atgagggact ttccctgctc caccgtcact 60
cccccaactc tgcccgcctc tgtccccgcc tcagtccccg cctccatccc cgcctctgtc 120
ccctggcctt ggcggctatt tttgccacct gccttgggtg cccaggagtc ccctactgct 180
gtgggctggg gttgggggca cagcagcccc aagcctgaga ggctggagcc catggctagt 240
ggctcatccc cagtgcattc tccccctgac acagagaagg ggccttggta tttatattta 300

<210> 1607
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1607
gttctgagca gttagtacgt ggcagttgta ttattagagg aagcctgtct tgtttttttt 60
taaataagct gatagagtga ggattctttt aatcaagact gtttgggatt gaattgccac 120
tcctgcttac cagagtgtag gcagtttttc ttaaactttc caagaagact ggtgtcctca 180
tctaaaatac gaaatgctta cagtaattgc ctcatggggt tgtttggggt gactaaatgt 240
agtaggattt actacatagt aagttctcaa tacattgtag ctattattat tagttcggta 300

<210> 1608
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1608

ccaggtctct ccactgtcaa gttactatta ttccctttat aatttgcagt ttaagatgaa 60
atgcactagt tttagtgctt catctgtaaa actacttttt tatgtgaatt tatttttaa 120
aaaatgtctg tcactaaaga gaaaatcatc atcgcttggc atggataaaa acactaactg 180
ccaaagtcat taacttttgg ccaaatacca aagccagcta aagtcacagg gccttggcct 240
gtattctttg ttaaaaagag attaacaact gtcgggtgat aaacataaga tataccagca 300

<210> 1609
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1609
cctccctccg cgagctggac gctccgcagc ccgcccgcca gccggcccgc cggccgccgc 60
aggaatccct ggataaagac cagctcaacc atcgctgaga aaacagacct aggcttccca 120
gggcggttaa cccgccggcc tctgggcaga gactaaaaga caaaacaaaa taaaacaaca 180
acaaaaaact cccagtgtgt ttcctactct tctttgtctt ggaggaaagc aaagggagag 240
aaatggactt caccagtggt ctttggcttc atcaattcac aggaaatggc atcaagatgg 300

<210> 1610
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1610
cttcttctca actctctgat tgcttatata agtgacgtct tctgaaggaa agttcagcat 60
tttttctcag atatgataat aatatatgct aagatcttgg ccaggcacgg tggctcacac 120
ctgtaatccc agcactttgg gaagccaagg tgggcggatc acttgaggtc aagagtttgc 180
tgccttcaaa tcaatcatta cttcttagca cctcttgaaa tagaaaataa aaaatttggc 240
caggcggtgg ccaggcgcag tggctcatgc ctgtaatctc agcactttgg gaggctgagg 300

<210> 1611
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1611
tgcacactaa catggcacct gcataaaaac cacagacagg taactttagg gacttcacag 60
tggactcaag cagactgatc ccagattgta ggtagaagtg tgtttgcaaa ggccagagga 120
gctgttagga cataatgcga tggagacaat ttgcaacaat cactgaatcc acgtttctgc 180
tgtttaaggg tggctgaaag gatggaggta tagcttgtaa tgcaaaatat acgcagaggt 240
tcatagtgaa gctgaggagg agggccttca aaagttaagt gggagatgtt taggtcagta 300

<210> 1612
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1612
ctggaattag attgtgtagg gccgacattg gatttatttt aagtacaata ggaagccact 60
ggaatgtgat aaccagaggc ttgatgtaat ctagtctaat ctattaaagg attgctgtct 120
agtttgtgat aaatggagcc ttgaccttgg tgtcaagaaa ttgtccttga taccagcaag 180
gccaatttgg aggttattgc cattctgaga tgagaagcag taatgacttg gtgtttattt 240
gagatagaaa gcaagtaaaa tagaaacatt ttctggtagt agaggcaaga aaacttggtg 300

<210> 1613
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1613
ttttttaaga gataaggtct tgctatgtta tctaggctgg cctaaacttc tgggctgaag 60
tgatcctcct gtgtagctgg gactacaagc atgtgccacc aatgcctggc ttctcacact 120
gttttgtaac atagatatgt gaagatgtgt attatagaat tgtttgtaat actgtagtgt 180
tgtaggcaat gtgactgtct atagggaagt ggacaggtta tttgtggtaa atactcatgg 240
aaaacggtca agcagttaaa agcaatcaat tatggtcacc cagcaatgca gataaatctt 300

<210> 1614
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1614
tctaaattca tggattatat ttatatatgt ccttaatcct cactcacatt ggccctacag 60
gtagattcat tgctcactgt cagttctctt gctgaagttt tcctattttt ctcttgattt 120
gctgaaattc cttctccagt agtttaatca aaagggacta aatgaaaaaa aaaatattca 180
gttgttgcaa gttcaaaaag gtttttagtc tttgtgtttg attgacagct ttccagcata 240
taaaattctt aggccacact ttctttcctt gagaacttca cagatgtcac ttctgtctct 300

<210> 1615
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1615
tctaaattca tggtttatat ttatatatgt ccttaatcct cactcacatt ggccctacag 60
gtagattcat tgctcactgt cagttctctt gctgaagttt tcctattttt ctcttgattt 120
gctgaaattc cttctccagt agtttaatca aaagggacta aatgaaaaaa aaaatattca 180
gttgttgcaa gttcaaaaag gtttttagtc tttgtgtttg attgacagct ttccagcata 240
taaaattctt aggccacact ttctttcctt gagaacttca cagatgtcac ttctgtctct 300

<210> 1616
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1616
cagacagtgg ccccggctgg gagtggtttt tgtttgtttg tttgtttgtt tttaacctca 60
tcaatgttat aacaaaacaa cgctgaatga aacgatccta ttgacgacct gctgtgaaat 120
acaggataat aactacccaa aggagggcag tgtgaaagtg gaatcacact gttgtaaagg 180
tattttattg tgggaggtgg tacagtatta atctaagaag accagtaaag acgaatattg 240
taatccctgg agaaagcacc aagaaaataa aacaaataga gcttttcagg aaaaaaaaac 300

<210> 1617
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1617
gaccacctac ggaaaactga ggcccacata agctcgattg gttgtacctc caacagatat 60
ttattaagca cctactaaat actgagccca ttgcaagcac cagggaagcc tctgtgaaca 120
gcacaaggtc cctgctctgg agattctgct tcagtggtgg agacagaaaa taaacagttt 180
cccgtcacca attttccttg gaattggaca gatggcagcc accataatga tactatatgt 240

gtccaagcta aacaaaatca ttcacttccc tgattttgat aagaaaattc ctgtaaagct 300

<210> 1618
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1618
atttctagct ataaagaatt aggttgttag gttgaataat tgtaaagcct gtgcccgagc 60
cgccagttgg cgatgcaggt ggttgagggg agatgtgggt ggtatataag aagcaaagga 120
ctctcagccc ctgatgtgcc ccgcgtggtc ttcttaggga ggctcaatgc ataaagacag 180
aataaaatgg gatcctccac agagatttaa tctgtagaag atcaaacacc tgttgcctgg 240
tcaccttagt ctaaaaagta gtggagtttt gttttgttat ttttttaaag catgattcta 300

<210> 1619
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1619
gtgagatacc tgcccctact ttgccttctt ccatgattgg aagcttcctg aggccacccc 60
agagtcagaa gccgctatgc ttcctggaca gcttgcagaa ccagtattca ctgactgctg 120
aaactagagc atcactgaga agcaagagat agactgacct aactagaggg agagctgcca 180
tccaggatga tgccaccatc acaggaggtg agaaggaaca cagcatcttc tgcaaatgct 240
acagtaaata gggacggggt gcagcaatgt gaggaaagtg gaatgaactt ggactttgaa 300

<210> 1620
<211> 98
<212> DNA
<213> Homo sapiens

<400> 1620
actctctcta caactgacag agtaaataga caaaaaatgt atgggggata tggaatattt 60
tatcaacaca agtaaaaagc ttgatctaac aggtggtg 98

<210> 1621
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1621
gctggcaata aataagatat ctttattatg attatgttaa tagttaaaat ttgcatgttt 60
tctagatagt ctgttaacag gataaaaaaa tacaaaaagg cgagcttctt aatgattcag 120
ctgaattaac tataaaatta aaatacctgc taattattat cttctaaaat aacacaaaat 180
atattcaata cgcaatacaa acctcagtaa tccaattctc ctaatatgca attatttata 240
acctctgaac taagaggaag tggtttgact aaacagagaa ataacaatgt ttttatccta 300

<210> 1622
<211> 129
<212> DNA
<213> Homo sapiens

<400> 1622
gtggcatttg atgctgtggg ttggagccca gctttggggt cagacacacc tgggtttgaa 60
tcacattgct gccccttcca ggctcacatc attttatttc ttttttcttt ttctttttt 120
ttttttttt 129

<210> 1623
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1623
aaaggctatc tatattagct ggggttcccc ccaaaagcaa cattggataa ggactcatgg 60
gcagatactt tcttctggaa aatgatcccg taggatatgg gtagaaaaag aaattgggac 120
cagaaagaat gaaacaggaa agaaagaaag cctattgaag gatataaaat ttctgtaaac 180
aactggagct tagtcccact gaggcccccc gaggaactgc gcagaatgta agacagagga 240
ggaaatattt agccaccagt tcctatctcc cattggccaa cttgatgctg agttcaggag 300

<210> 1624
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1624
gggattacag gcgtgagcca ccgcgcccag cctcatatcc cccatttcaa acacgctgta 60
aacaatgctc aattactttc ctcttaagtt gaaaccacca attactgggg aaaggggcag 120
ttagatttta ttggttgact ttgtgttttt actaatcctt gttgaaaagt agaggaattg 180
gtttagttga gaaaacaaaa tactaaaaaa tctgccacta gacttttaa gtcaagagtt 240
tgtataaaat gaaacatatc tactatctaa tctataaaat ttagaatctt tttaattcta 300

<210> 1625
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1625
cattacatga ttctgtctta acgaagatag aagcatttta ttgcataagt tttcttctgt 60
gtgtgggaat catatgtggg tgtatatatg tttaaggggt atgcatccgg gtagacgttt 120
gtgtgtggac atgtgtgtac aggtatataa gtacatgtgt catagccttg gtacaggtct 180
catagccttg cagcactgtg ttcctggcgg gagtggcatc tgtctgcatg tctgaaaatg 240
ccacgtgtgc attctgctga tcaccaaggt tcgtggctgt aggcatcctc tcttcagtgc 300

<210> 1626
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1626
gctctgtgac acccttttg tgatcttcag tgctgttttt atggttacac gactaggaat 60
ctatccattc tggattctga acacgaccct ctttgagagt tgggagataa tcgggcctta 120
tgcttcatgg tggctcctca atggcctgct gctgacccta cagcttctgc atgtcatctg 180
gtcctaccta attgcacgga ttgctttgaa agccttgatc aggggaaagg tatcgaagga 240
tgatcgcagt gatgtggaga gcagctcaga ggaagaagat gtgaccacct gcacaaaaag 300

<210> 1627
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1627
cagggatcca cttgccttaa tttgcacagt gttcttataa atcaacagaa agtacacata 60
acagaaaaat ttaaaaggtt agggatcatt taggaaaaaa tgcaaatgcc aacaaatgtg 120

agaaaatgct caatcttact tataatttaa gaactacaat tcagccaggc gcggtggctc 180
atgcctgtaa tcccagctac ttgggaggct gaggcacgag aattgcttga acccaagagg 240
gagaggttgc agtgagccaa gatcatgcca ctgcactcca gcctgggcga cagagcaaga 300

<210> 1628
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1628
gtgaggcata tttgctttaa catgcgctta ttacagaagt tatgtttact gtagaaattt 60
ctggaaatac aaatgcaaaa taaaacacaa atctctgtca ttctgcagaa acagcattct 120
tttgacccct tttgttttat tctatagatg tatatttttg tgtttacaga aacttgatca 180
tattatttta taacttgctg tttcatataa aattatcatg aacatctttt gtgtcatgac 240
atgtctcttc ttttaatgag tgcatagtct tccaaactac aaatcttcca tactctgttt 300

<210> 1629
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1629
ggtaagtgct tagaacaata tctaacacat agtggttgcc cagtaaatgt gagctgtgtt 60
gattttgaga ttataactac aataagaact ttttcaaatt gatacatatt tagccgatat 120
aatctaattt tttaagatgg aattattcta gttgttggat ttacacactg tagcattatt 180
tttgggaact accaaattat tccagtttgt catcataaag tagttgctaa agcaataaaa 240
agtgaaatat ttattcatga aagagtagtt catgtcatta agtgtatgaa tggagtgatt 300

<210> 1630
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1630
aaaaagttga gtatttatat gtgccagtgt gtatcatgct gaatacttta tctggatggt 60
gttatattat ccctcctata gactattgag ttgagtactg ttattagatc cattttacaa 120
atgaggaaac tatggagaga ttaagtaatt tgcccaagat cccataataa gaaggcaagt 180
gtcgaatgcc aggcattcta acttcagagt ccatagtctt aacccttgtg ctattctctt 240
ccacaaatac acccagcagg taaaagactg agaaaaataa atatcaaaaa gtacctttg 300

<210> 1631
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1631
ctatgatcta gatctagtat aactcttgtt gttttatata ttttattaca ctggaacagc 60
tcgtgccctc ggtctcttgc ctcggcacct ggatggcttg ccgcccacat attggaactt 120
cattgtggaa gttactttag gcctgacagt gaaggagttt cctctagaga gagtttctgt 180
taacttctga tctgtgttct tttgtaaagc atgtctcttg taaacagcat atagttggtc 240
ttctctgccc tacagtttat tctaatgtcc ctatgtctct aaattggagt gtttagtaca 300

<210> 1632
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1632
attcaagatg agatttgggt ggggacacag ccaaacccta tcggttgcca acatttacag 60
taacagtgtt aggtgaacag ttgtccagtc tcctgttttg tcggacactg tttctagcac 120
cttccaggca gaatctcatg tatccttcac tttcgaaatg ggtactattt catccccact 180
tttatcaatg agaaactaaa gctcgaagag gtcaagtaag ttcctggcca aggtcagcta 240
gcaggctcta gaggcctcgt tctccttaga ggcaagcctt gccagggccc aggcttggca 300

<210> 1633
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1633
ccccattcaa gtttcaccag ttttctcaat cacattccac aggcaatttt aattcacatg 60
tattatttag ttgtcacgtc tctttaatct ccttcagtct gcaatagatt cttagtttct 120
cttagatttt catggacttt gttacttttg aagattatca gcagttattt tgtatctctc 180
agtttgggtt tatctgatgt ttctgcctag attcaagtta gacatttcaa gtagtactgt 240
aacagaagtt atgctatgtt cttttcattg cattctatca gattacatga ttttgattca 300

<210> 1634
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1634
accatgttgc ccagtctggt ctagtctgtt ttaacaagtt gttgctgtgt aatgatatat 60
gtgtggtgtt aatttgcttg ttcctaagtt taaatgaggt agagcatttt atgacatgcc 120
tgttctagtc ttttgcttat ttttctaatt gccttttctt tttcttaata atttcagttc 180
ttcatatgtt cagcatacta gtcctttgtc aatttacatg tattgaatat atatactctc 240
ccattctgcg gcttattgtt ccattcttca tgaacatttg taattttaat gtcctattta 300

<210> 1635
<211> 164
<212> DNA
<213> Homo sapiens

<400> 1635
cggcacgagc ccaggctggt cttgaactcc tcagctttta ctttagcttc ccagtgtgtt 60
gggattacag gcatgagcca caatacctgg ccaagtcctt ttttttaatc aaatgactta 120
ttaatacaca gtttctttgc cagcttttgt tccctttagt gaga 164

<210> 1636
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1636
gggaaaagaa aaatagtagt agaagaggag gagccattac tttcatttct gttcattctg 60
aagaaacaga gatgactctt tctgtataac tcaaattctt aaaagaaacc cttgatatat 120
agtgtcaatt atatgaactc tacctcaggg tacctaaaaa aagaatgttt ggttacccga 180
atgaggggga ggttttcctt tagagagaag tattggggcc aacaaatgaa aaaggaatag 240
tttgaacacc acattttgca actcctaatg aaataatgga tttaaagaat tatcgatggc 300

<210> 1637
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1637
aagaaaggga aagtaggaac agggagcaga gcaaagcata acttgctgtg ttccagggat 60
ttaaaaataa attactgtca agagcaatat aagggtcatg ggtttgatca ggaacttttt 120
gtaaatgaaa aagttcacaa tttggaaaaa acagtgctag atgtgttatg gaaattgtta 180
tcacaaatta ttccactgaa actcaagtat ataagacaac aatatattgc tgtgaaatct 240
taattttgac atatggaagg taaccaaaaa taagaaccat acctttttgc ttgaagtgca 300

<210> 1638
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1638
ggcagcagca gcagcagcag cagtggtgga acgaggaggt ggagaattga gagcacgatg 60
catacacagg tgtttctgag tagtaattag atcgctgtga aggaaaaagc acacctttga 120
gttttcacct gtgaacacta tagcgctgag agagacagtc tgaaagcaga ggaagacatc 180
gatcagtaac accaagagac accaaagttg aaagttttgt tttctttccc tctgttttat 240
ttttccccg tgtgtcccta ctatggtcag aaagcctgtt gtgtccacca tctccaaagg 300

<210> 1639
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1639
gatggggagc cattgaaggg ttttttgagc agggaagtga catcacctgg gttacatttt 60
aaagattcac tctggcagca gagtgagaaa tagactaaag gaggcaggag gacacgagtg 120
aaaacaggga gctatagcaa gagtctttgt ggttgcccag gctaaagatg atgctggctt 180
ggactggtgt agtagtgata gacctacaca agtggtagga tcaaaacaga ttgaagctag 240
agctcacagg aatttgctgc catgtgtgaa aaagaggata gaaatgactg ctaggttgag 300

<210> 1640
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1640
gctatttgtg ttttgttgca ctgtttttt tgtttgtttg tttgtttatt tggttggctt 60
tttggagagg gaaatggggg tgaaatattt ttttattggt gaatcatttt gtgaatgtcc 120
ccctcaaaaa aagctaatgg aatatttggc ataaagggca tttggtggtt ttatttttgt 180
ttgaggggga ttgtcagaaa atccctttc tctcttacgt ctaactgact agggaacaat 240
tgttgatatg catagcattg gaatacttgt cattatatac tcttacaaat aacacatgaa 300

<210> 1641
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1641

gtctcatcct gaggccactt tctagggcca tttctggcac cagatgtttt atttcagctc 60
ccccaaaagc aaaaccctga ggcagggatc ttggttgaag tggggagggg atcccagaaa 120
gtggggtgag ggtacggagg catgaggtag gaaagggaag aaaggagata aaatgtgtgt 180
taatgagcag gttagcactg tggaccacca cgctcaatcc cactgagacg tgaggaagct 240
gggaatgtat ccaccaggcc ttaatttatc aagatgagga ttactcctng aaatgttaac 300

<210> 1642
<211> 298
<212> DNA
<213> Homo sapiens

<400> 1642
gcaagctgcg tgaccgggag atccagctgg agatcagtgg caaagagcgg ctggaagacc 60
tgaacttccc tgagatcaaa cgaaggaaga tggctgacag gaaggatgag gacaggaagc 120
aatttaaaga cctctttgac ctgaacagct ctgaagagga cgacaccgag ggattctcgg 180
agagagggat actgaggccc ctgagcactc ggcatggggt gaagacgatg aagaggacga 240
ggaggagggc gaggaggaca gcagcaactc ggaggatgga gacccagacg cagaggcg 298

<210> 1643
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 1643
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attaaatata ttattggatt atggttcctg aaggtcatta aagtttgagt gtgtgtgtgt 120
gtgtgtgtgt gtgtgtgtgt gttttatgac ttaaatatct ttacgtgtgt tttttagagc 180
ttggttcttt aaagatttgg agaagatatg taaattacca aggcacttgg ttcttctgtt 240
ttatatacta ataatcaggg cctaagttaa ataaaaa 277

<210> 1644
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1644
aagacctgca gcttcagcat cacttgagaa gttgttagga atgcatacta gtgggccccg 60
cccccagaca tagtgaatca gaaaccaaca gggaggcgcc tagcattgtt tttttaacaa 120
gtgctgggtt attctgatgc acagtctagt ttaagaacca ctactttggg taaacgtttt 180
gactgtttaa agtttatggc ggtgaagtgg gcatcttcaa agactagtac ttacacagtt 240
tagaagattt caaggtactg ctgacagtag tttattatgt cagtatacat acgtgtagag 300

<210> 1645
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1645
atttgctcta aaggctgaga ataccgatac tttcccactg gaccccacag gtaggtcata 60
tttcccagct tcccttgaag ctagagaggc cacgtgtctg agtcctggtc agtgatgttg 120
gggaagtgaa tgtggaactg ctaagcctgg agccggagca accttcctcc tgcagtcccc 180

ggaggatggt ggaactctta cacggaagga tatgcgttcc tggaggcatg cgaggcaggc 240
aggagcccca cagctcccct ccacaccaat tcatctgcac aggaatatgg gattgcgaat 300

<210> 1646
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1646
ggtctacagt atgtagaagc agaagttagt attaatgagg atggtacctt gtttgatggt 60
cgaccaatag agtctctgtc cctgatagat gccgtaatgc ctgatgtagt acaaacaaga 120
caacaagctt atagagataa gcttgcacag caacaggcag cagctgctgc agctgccgca 180
gctgcagcca gccaacaagg atctgcaaaa aatggagaaa acacagcaaa tggggaggag 240
aatggagcac atactatagc aaataatcat actgatatga tggaagtgga tggggatgtt 300

<210> 1647
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1647
ctaccctaca gatattgaat gcaccttgag ataatttagt gtttttaact gatacataat 60
ttatcaagca gtacatgaaa gtgtaataat aaaatgtcta tgtatcttta gttacattca 120
aatttgtaac tttataaaca tgttttatgc ttgaggaaat ttttaaggtg gtagtataaa 180
tggaaacttt ttgaagtaca ccggatatgg gctacttgtg actagacttt taaactttgc 240
tctttcaagc agaagcctgg tttctgggag aacactgcac agcgatttct ttcccaggat 300

<210> 1648
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1648
aaaaggtggc catgtgagaa ggactcagca agactttgct ggctttgaag atggaagaat 60
gtggccaaaa gcctagggat gaatatggct tctagaatct ataataaaca aggaaacatt 120
atttcccaga gcctctagaa ggactgcgtt ttgcttttgc ctcggtttta gcccagtaag 180
acccatttta gacttctgat ctttggaatt gtaggttaat gcatttatat tattttaagc 240
cactaatttc tggtaatttg ttacagcagc cgtaggaaat taacatgtag gaaaataaac 300

<210> 1649
<211> 166
<212> DNA
<213> Homo sapiens

<400> 1649
ctcagctgaa attcttttcc ctatctagtt ttgttaagga attcaacaca tgccagttaa 60
gctgtcataa atgaaataat ctacctcgag gctgtatttt aacagattat tatatcgaaa 120
gaaaaaaatg aatgtttata aaataacatt tctttttttt ttttt 166

<210> 1650
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1650
ggaaccaggg gctgcagaac cagcccctcc ccaatgagga ccccctctgg acgcccctcc 60

ccatggagaa caccaggagc cacagacccc agaccacaga gcacacaggg gagggcacgg 120
ggcggccggg gcagggtgtc tgctgcctcg tttatgggat ttgctccgcg tctagcacac 180
tgctgcctgc agtgctcctg tcccctgcag tggctactct gggcctacgg gcctaatcct 240
ggttggcatg aaaatgtcct gaggctactg tgacaaattt ccacaagctg agtggcttaa 300

<210> 1651
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1651
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ggagcattat gagcattatg tcagaataga atagaattgg ggttcgatct taacaggcca 120
gaaatgcctg ggtttttttg gtttgttttt gtttttgttt ttttatcaaa tcctgcctga 180
ctgtctgctt gttttgccta ccatcgtgac atctccatgg ctgtaccacc ttgtcgggta 240
gcttatcaga ctgatgttga ctgttgaatc tcatggcaac accagtcgat gggctgtctg 300

<210> 1652
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1652
ggttcagaga aaagtaggca gagaaaggca gtttaggagg tgacacaaga gggaagccta 60
aggagagaga actggatgga gcttcccagg tgatgacagg gttgaactcc agggctatac 120
ccagctgagc aaggagagct ttgcctcttc aggagactgg aagttgggga agactccaac 180
aggcttgtgg tcagaagctc aggagactgg gaaggaaaag tgaatttctg aggagtccta 240
gttcatttca ttaatttgtt caattcttta acgtatgttt attatggacc tactatgttg 300

<210> 1653
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1653
tagacagcca tgttgctcac acaaagcctg tttgctggtc tcttcacacg gactcgagtg 60
aaaatacaca cgcacacaca cacaaatgga catttacccc actcctgctt ttgtgctatt 120
gtggtcatgc atagtatttc ttttttgctg ttgtttttct tgttgttttc actgtcatac 180
aggtatttat gatggaaaca gaatcagagt ctgaccttcc tgacttgaag tacaaggttt 240
ctggggtttt tcattcgtgt tttatgtgtt ttttaaaaaa ttatttgtgt ttttaatcga 300

<210> 1654
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1654
agacaagcca gatcaccaag atccccattc tgaaagaccg ggagcctgga ggtgtgaccc 60
agcagggctg ttgtatccat gccatcgagc tgaatccttc tagaacactg ctagccactg 120
gaggagacaa ccccaacagt cttgccatct atcgactacc tacgctggat cctgtgtgtg 180
taggagatga tggacacaag gactggatct tttccatcgc atggatcagc gacactatgg 240
cagtgtctgg ctcacgtgat ggttctatgg gactctggga ggtgacagat gatgttttga 300

<210> 1655
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1655
accacgccca cctgtaacca ttatttttaa gattgctacc attggatagt tctgtcattg 60
tccaactttt ggatatttaa aattgatccc tgtgtggcta acagaattaa tgtttccaaa 120
aatgttgaaa attatatagt tctcttaatt ccccacctct aactatattt ttgggttatt 180
tctttaggaa cagatgccca ggagtcatat tactgagaat ctagaaatct tttgcaaagt 240
tcttgttata ttgccaaatt gcttcccaaa agggttgttc taaaccataa tttcaccagc 300

<210> 1656
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1656
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aaggcaactc ttaactgaca atatagttag tatattctgg gccttcatct tcaaaattag 120
taggtagtat ttattgagtg catatcatgt gccaggcctg gtgctgagtg cttacaatga 180
tcattttata tatgggaaaa ttgaggctca gcagggtcaa gtgccttgta agaggtagca 240
ctagtaagta acagtgctca aattcaacta ggtctttcag ctttttatac aatactgcct 300

<210> 1657
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1657
gtgatttact ttctcattca aaatacatat tggatattgt atctaatttt gtattggtaa 60
ttttgggtta tgaaacccca gatttgaagc cccaaattgt atagggttca atgcccataa 120
aacccagatc tgcccctgct tagaggccgg cccctctagg agacagcatg tggggccacc 180
cagagatgca ggactcttct gttctgccct atcgcagcag agaggccatc cctggagctg 240
gaaggtgcag actgggaatt gctccttctc tgaattgcta gctcctgcta atgcctgcat 300

<210> 1658
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1658
gtggcccaag gggcccacaa taaataacac agtcactcct attggtacag caatgccaag 60
atttagaagt tatttcatag gagctgggac aaaggtcaaa cctctctttg ggcaagaccg 120
tattctttat tgcatagctt tgaaaagaga ttttgtatta cccaaacatt tattttaaaa 180
aggcaccccc atatatccat cactcgaact gtacatttct aaatgtacat tgacctttgg 240
tatattagtc tagcaatcca gattttgcct cttgttaagc gtatcagggt cctggcagga 300

<210> 1659
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1659
agacactgaa ggaaccaata aataatcctg cctctattaa tgtattttta tttatcatgt 60
aacctcaaag agccttctgt attgagtaag cattctatgt ctttttttaa ttgtacttgt 120
attagatttt taaggcctat aatcatgaaa tatcactagt tgccagaata ataaaaagaa 180
ctgagtttaa ttatgaataa tatgtaagct aggacttcta ctttaggttc acatacctgc 240
ctgctagacg ggcaacatga agtaggacag ttctgttgat tttttagggc catactaaag 300

<210> 1660
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1660
tccccatctc cacactccct accctctgtc ccctcaaccc tgctttattt ttttatgaag 60
aagagagatg acattatttg gattttgata ttaaacagct aggttatctt aggtaaatac 120
ataagctttt gtgggccaca gtttcttcat ttgaaaaatg aagttggact agttttgcag 180
tgcttaactg cacagagcat tagaatcacc tggggagact tcataaacta cacaaccagg 240
ggtgtacctg agatcaaatg aatctaggcc ttctcaactt taatgtgcag acaaatcacc 300

<210> 1661
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1661
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taggttatct taggtaaata cataagcttt tgtgggccac agtttcttca tttgaaaaat 180
gaagttggac tagttttgca gtgcttaact gcacagagca ttagaatcac ctggggagac 240
ttcataaact acacaaccag gggtgtacct gagatcaaat gaatctaggc cttctcaact 300

<210> 1662
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1662
atctatatct attaatattt ttctgtagat ctatacctat catatccatc catatgttta 60
tattatattt acctaatcta tttaatctat atcatgttat gcacatatat atgaaacatt 120
tttgagtgga aaatttttatg gaaaaagtat tctatataag gtggattagt aatcctcttt 180
tgaaaaaaaa ttctagttct tctcaattgt gaaagatatg tctaagcttt ctaacaaaat 240
gaactccaaa cagtcttaga tgtctgcctc tttttaatca tttagtgaaa taattggttt 300

<210> 1663
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1663
gttggtgtgt gtctgcatgt ccaaatctcc ctctcctttc tcttataaag acataggtca 60
ttggatttag ggcccatcgt aaatccagga caatttcatc ttgacatccg taactgattt 120
tatctgcaaa gtctctattt ccaaataaag tcactttctg agatttcagg tggacagtta 180
tttgcgggga tagtattcac cccactagat tcagggttgt gggaagtgtt gcttactaaa 240
ctctggttca cggagctgcc aaagaaaaga gatttatttt taaacctagg agagaaggca 300

<210> 1664
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1664
caggctcatc tccaactgac ctcatgatcc actggcttcg gcctcccaaa gtgctggagt 60
gcagtggtgt gatcatggct cactgcagcc ttgacctcct gggctaaagc aatttgcctt 120
cctcggcctc tcaaagtgct gggattacag gtgtgagcca ctgcacgtgg cctcttttta 180
gtttattttt tccaaaatta ttttgaaaag tttcaaggtg gaatgtagtg acaccatcac 240
ggctcaccga agacttgacc tcctgggctc aggtgatcct cccacctcag cctctcaagt 300

<210> 1665
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1665
gttgatctct catcagtgtt tgacagttaa tcacttttc ctccttgaaa tacctctttg 60
aggcttccaa gacaccacac acaactggtt tacctctctc tgtctctctc ttttttgttt 120
cctttgctga ctctttctca gcatttctgc tagggttcag tccatggctt ccttcacatt 180
tctgtctcac tttctccctt aatgttgcta tctagtcttt taattttatt tatttctagt 240
tttaaaattt aattttaaaa acttaatttt atttaatttt tgagacacag tccttgtagt 300

<210> 1666
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1666
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ctttaatcct atattagagt ctataggtgt gtctttctta tagcaatcct gcactcacat 120
aaaaactgga ttttcaatat aagatcaaaa tgtatttcac aaaaaatgca tctttatatt 180
tggttacatt tctcctgact gaatggtgcc atgtacagtc tgtgtaagtt atagaaaacg 240
tttgccaact cgtagtctac cattttggta tttggtttct atttggttcg tctggtcttt 300

<210> 1667
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1667
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cattgcactc cagcctgggc aacagagcga gactcttgtc tcaagaagaa gaaaaaaaga 120
aaaagaaaaa gaaaaagaaa aaacttttga tgccagtagt tctgtgaaga caacaaaaaa 180
gcagggcttt gagagagagc aatgagggca taggtggctg attacatcag atgggttaat 240
ctccaagtga aatttggggg aacggtgttc caggcatagg gaatagcaga tgtaaaggcc 300

<210> 1668
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1668
gtaaagtgta ctgattgaga actagagttg tggggtcaga cagacctggc ttcaaatcct 60
cctcggccac ttacagctat gtgatctctc tgagctcagg tttctcatct gcaaagttgg 120
gttaataata caagttcttg ctcattgttt tgttgggagg agtgaatgag ataaatcacg 180
taaagcacgg accacagtga ctggctgata ataagcctca gtggatggtc gcccttagaa 240
ttattttgta acccttgct tttgaggcag ctggtgagct ctgtagcctc agagattact 300

<210> 1669
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1669
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cggaggggat ggagcaggag gaatcctgaa aaccggactg ggagagatgg ggccgagtgg 120
acgatgccca gtaccagcgg gcgtctgaga ctgaaacatt aattctgaag aagaagaaac 180
tagacagtca gacctccagg actaagatga agtgagccga gaggagatcg tatcataaga 240
atgcttctgt cgttagccgg gtgcagtgct gtgtgtatct agttccagct acttgagagg 300

<210> 1670
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1670
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gcaaaactct tggactgatc atttgaagtc acccctctgt gtcttcttgt gaaatggctt 120
gggcgtctct gggctctgac ttgctcatct gggaagagat ggggtagagg gagttggatt 180
ataaatcatg cttcactcag tcaacagaat gctactcagg cactaaaaat gatggcgtag 240
ccctacgtat tctgacatgg gaagatggcc acaatatctt attatgtgga aaaaactagt 300

<210> 1671
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1671
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aaatgtcatt aacttcattt taaagatgaa gaaactcagg cacaaaaaca gttatcaaat 120
tgccaaaagg gcacatagtt ttagaaatgg gactgaaatc cagctttcct gactcaaagt 180
cctatgttaa tccaccagtc atttattgag cttctgctat gggctatgta ttgtgctgaa 240
tgtagaccaa cacagaataa ttcctaaatc ttacagactt tttcatagta ccctgtctgg 300

<210> 1672
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1672
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gtcaaccacc actgggagct cctgcagctt ggcaagctca ccagcacccc agtgacagat 120
cgaggaccac atctcctcaa cgctctgaac agttataaaa gccggttcct ctgcggcaag 180
gagatcaaga agaagaagtg catcttccgc ctgcgcatcc gcgtcccacc caacccgcca 240
gggaagctgc tgcctgacaa aggactgctg caaatgagaa cagcgcctcc tctgagctgc 300

<210> 1673
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1673
cttgcttgaa atacagaatg tccagatcta ctgagtcaga atttacattt tcaaaagctt 60
cctacgtgac tcatgcatat taaagtttgg gaagcactga cttagattac cttttgagaa 120

ttccagatgg gtcagaaacc agacagaaat actcagtagt gagaagctat ggtgtatcag 180
aagctgttag gcatttcatg gtttggtagt gagcaagaca gatagttttc ctgtattcag 240
cgacttagtc tagagagaga caggatggaa ttaagtgttt aggtgctagc caaaagtaaa 300

<210> 1674
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1674
aaatcagtta ttaaacttta tgtatatatt ttagccagag cttaattttt atgaagataa 60
agacatgaag tttaacaatg gacaacagtt agtacagcta attgtgaggt caagtaattg 120
ttagacatag gggaaggctt tgttccacaa tattatatgg accactgaac aagaatgaca 180
gccctttgtt atcacttggc atatgaaaag tgttgtgtgc atagtttgtg ttaatttttt 240
atgtgcataa aaatgtgatt ttaatttata tgctctgaag gataattcag ggtatagtta 300

<210> 1675
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1675
aatccttctt gggaaacatg ttattgtcct cattgtccag attagaaaac tgagtgtaaa 60
gtaagttaaa ttatagtcct aaggttgaat gctaataaag acagaataca agtccaatat 120
attggactca aaagccctca cttaactatg gtctccatgg gcttcccttg gctctctctg 180
ccttttttta ttttttctta ttgcttgagg ccctttctgg aaggtaagtc tggattatct 240
acttcacact gttttagaga agacttgtgg tttccattta ccccttactc cctccgctcc 300

<210> 1676
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1676
ctttcagtgg cctccctgtg gaagtgacat gctcattttt gccttattct gtaagtgggg 60
agtcactaag tctagcctat attcaagggt aaggagagtt aagctccacc tcttaaaggg 120
aaaatttata gacattttca aatgactaca tcacttaacc cctcaccatc tgccctccca 180
ttgctagcac ttgatgacta gcccttgctg ggctttacat gaacagatgt ttcccaaagt 240
tataaaatta gtaccactaa aatgtatcaa atgttaagcc attctgtggt atgtcatagt 300

<210> 1677
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1677
gttacaaaca gtggaaaaca gacattttca gatgtttgca caccatgcac catgcaaaat 60
acaaaccagc tgaatcataa aaacaaatga ctagttactg ggagggtttt ctctctttct 120
cattattttt acttctacca aagtaatgtg cacatactgg taattttatt ttatttttaat 180
tttcaccaag ctagctaatt ttctttcttt ttttttgng naggnggget gtcggccttt 240
tgtcgaggnt gatctccaac tcctgnccte aancannect tccncttggg cctaccagag 300

<210> 1678
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1678
ggggcctgag gtgccagggt tcacagacag ggtttcccac cagccacacg caccagctct 60
atttgggggа agtgtagtga ggaggagccc agaggacccc aggggagtga ggagggagaa 120
cttggaaggg tgcagcccac ttccagactc tccccctctcc cacccttcta ccctgtgaag 180
ggaaatgagg gctttagttt cctgggcagg gaggggcagc ttctgaggtt gccaaaggcc 240
cccactggat ggaacctgtt agctgctcct ctccgcagcc agaaatgctg ccggctgcac 300

<210> 1679
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1679
ggctgcctgg ggaaggagaa atctgagcca agacctgaca aatgaatagg agtaagctaa 60
ggaaagtgac tggggtgagt gagttccaaa tggagggaac tgcatgtgca gaggcctgga 120
ggtgagggga acctgggcac attccaggag ctgaagggtt tgttgtggct ggaacataaa 180
gagccaaagg gggccaagca gtgcttcaca cctgtaatcc cagcactctg ggaggccgag 240
gtgggcagat cacctgaggt caggagttca agaccagcct ggtcaacgtg gtgaaaccct 300

<210> 1680
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1680
aggcatttca aactgaacac atctgataca gaacttttca tttccttccc aactttgccc 60
acgccagcct gctcctcctt cacgctttcc acttagtata tgatcccact attcactcag 120
tctctgaagc ttaaaaccta ggattcatcc ttgactactg tattctttac aatctactcc 180
taatgcatta gcaattcttg ctagctctac cttcaaaata tattctgaat agactatttc 240
ttgccgtttc ccttgcctcc ccatttccca tctgcacccc ttctctcctc cccaaatcaa 300

<210> 1681
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1681
aggatgtctg ctggacatcc aagtggctgt gtcaagtagt catctgtcta tttgtgtctg 60
aagtgcccag gagaggcctg agcttggagc ttacatctgg gactcattgc taagtaaatt 120
atatttatgt aatgggaaag gatgaaaacc cacatgtagg atgagagttg gccttgagcc 180
tttagcgttc ccgtagtttc ttttatttat ttatttattt attttgagat ggagtctcac 240
tgtcgtccag gttggagtgc agtggcgcgg gcgcgatctc ggctcactgc aggctccgcc 300

<210> 1682
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1682
ttcttgagga gctgagcctt cgctcctcag atcacaggct cacatgttga agctggcagt 60
gctagagact agttcctatc tgtgtgacag cattttaat ttaacaggac cgcctttgat 120

gttcccaaat atttataggc agctttagat catttcagtg tgtgctttct ttttcttctc 180
tctctctctc tctcttttaa ctggagcaaa agttcttcct catgcaacag ccttcctttt 240
atcctgttta gtttattttt gtttcctttg cagctttggc gaaggctgtc tggctgcatt 300

<210> 1683
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1683
tgaagccagg aaaggggtg ggctaggggg tgctgtttta ggtagagtga tgggaacagc 60
cccactgagc atactttagc cacatgagta gctggaagaa aagccttcta ggaccaggga 120
acagcaagtg caacagccct gagacaggat gggcttgtca gtttgaggag cagtgggagg 180
cctgaaccag gttacatggg gcccagccag tatggccacg actttgtgtt ttatccagag 240
tacaaaggag cctcactgag ggacaaggga agtggcatga tgtgacccgc atattaagag 300

<210> 1684
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1684
gcggagaaga ggggtagtgg ttggaaggag gaattctcct ttagggaaga tgtctgggaa 60
ggcctctctg agagagtggc ctttgaaagg agaccctaat tggatgaggg atgagaggct 120
gagccatgta agtatctgga tggaaaacat tacaggcgga gacagtggtg tgtgcaaagg 180
ccctgggaca gggtcacccg tgttaacatg gcgccatgag ccagcctctc aggaaaaggg 240
tctcatgaac aaatgaggaa agcaagtaga ggtagggcag ggagggagag gcaaaggaat 300

<210> 1685
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1685
agcagtatag ccacagcacc aacgaatgag gaagagcaaa atactgcatg acagctttgc 60
taagaattct ttcacttttt ttgtctatca gccaggagct agcaacttgg cttatttgga 120
aattttaagt gtacatatcc tggctcctta aatcctttac agatttaaag tgcagtcagt 180
ggagggcgag tggtttcgga aaaaaaaaag aaaaaaagaa aaaaaaagaa aaaaaaaaga 240
ttttttcttt ctntnaancg gantcgnnat ggggttggat nntttcaang ggggggttaa 300

<210> 1686
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1686
cccaacccca ggtgtgccgc gtgctgcccc tgagagccct gccccgcgct gtgaccccgg 60
agatgcgcgc cctggtggta gactggctgg tccaggtgca cgtaggagta cctgggtctg 120
gctggtgaca cactttatct ggcggttcac ctgcttgatt cctacctgag cgctggccgc 180
gtgcgtctac atcgcctgca gctgctgggc gtggcttgcc tgtttgtggc gtgcaaaatg 240
gaagagtgcg tgcttcccga gcccgccttc ctctgcctcc tgagcgcgga ctccttctca 300

<210> 1687
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1687
ccacactgct gttctcatga tactgagttc tcacaagtcc tgtttgtttt ataaggggct 60
tttccccctt ttgctcaaca cttcttcctg ccatcatgtg aagaaggacg tgtttgtttc 120
cccttctgcc acgattgtaa gtttcctgag gccttcccag ctatgtggaa ctgtgagtta 180
attaaacctc tttcctttat aaattaccca gtcatgggca gtcctttaca gcagcatgag 240
aatggactaa tacactcctc aaatgttttg aagattgttg caccttggaa ctaccagtgt 300

<210> 1688
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1688
agttttggat gagacttggt atggtccatt ctgggacaaa attcctctct ctctctctct 60
gcggacccgt gaaatctaga aaataagtta tttgcttcta aaatacagtg atgggacaga 120
cataggatag acattcccat ttcaaaagtg agaaattggg ccaggtgcag tggctcacac 180
ctgtaacccc agcacctgta atcctagctc cccaggcggc tgaggcagga ggattgcttg 240
agcctgggag atcaaggttg tagtgagcca tgattgcgcc acctttattg gaaactttta 300

<210> 1689
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1689
ggccaaacta gggcctgctc tgacatccgc aatgtacgtc cactagcagt gcgcaagacc 60
tcccgcgaga caggtgttgt ttttaatgcc catctcacag atgaggaaaa gatctcaaag 120
taccttgatt atttacccaa agttcccgac ccaggccttt aaaacttttt atgcatgcac 180
cgcctcttga ccacatcaga caatcaccac aaaacgatgg gctgacagtt actagagggt 240
tagtaactta tctttaaaag ggccaggtag taaatatttt aggctttgtg gccaaaagtc 300

<210> 1690
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1690
acatacagtt tattattcac acactggggg agggtgatga ataatgatta tttaatgagc 60
cctcttccta gttttcccta agtctgcaga agacaaagat cctgtttcca ggccatgaaa 120
ggactgaagt aaatattgta aataagtaca gctgaccctt gaacaacatg gaggttaggg 180
gttcagttga aaatctgcat gtaagtggac ctgtgcagtc caaacctgtg tttaactgct 240
gaattaaagg tgcttccttc tgctcattga tattacccat atttacaaac atgctagaga 300

<210> 1691
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1691
caaatattaa atattcaatg aatgatagct gcctctactt ctccttttgt tgtttttatt 60
ttccatttat gtagtcattt atttatttta atgtcttcga aagtattgac tttaacaagt 120

actttgtgat gcatttatta tttcatttgt tattatttat gtatttgatt tatttctttg 180
tgaggtagga tagaatctca gtcagatttt tgctgttagg ataccacaga ctggataact 240
acaaagaagg gaagtctgtt taactcgcaa ttctagaggc tggcgcatct aagagcatga 300

<210> 1692
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1692
ctgtgttctc tcaatgacag agaaatcact gtggtgctat gttggtggaa cttgctagga 60
actccctct atggtgctca ggaaagctgt tcgttgagag atatctctct acagtaactc 120
tactatgaaa ccacccaagg tgagggtaag gatgctgctg cttagaaaga gatgcagaca 180
aatgtactaa tgaaggctca acacagctct ttcaaggcaa gacaggtcaa gaggacaaaa 240
agtaaaagta tgaaaggctt taagaaatca ggtagatcgt aggtgtatgt gtgtgtgtgt 300

<210> 1693
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1693
gagaggtaat gcttcatttt gcatagttgg gaatcaagat aatctgtttt taataataca 60
agaaacaaaa gcataactat attatttata ttacaaaagc aatctttaga aaaactaaaa 120
ggggtatata agtattgaga ggagaggaaa aggaatgata tggtatcatg aggtaatttt 180
tgatcaatta tagtaggaaa tagacaatat ctaaaatgga taaagggaaa atggcaatat 240
tatcttttta ttttatatta ttttaatttt ttaagacaag tgctcgctct gtcgcccatg 300

<210> 1694
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 1694
aagtgactca ggttacttcc agatggtgag gactttctga agctgtcgcc cttacaggcc 60
atgacttttc tctagcactg tccagattgc aggtgtcttt cctgatgcga tatggggcta 120
tcccttaccc caattcttat ttcacggaga aaagaaaagc aatttttttt ttttttnnaa 180
acanagtctn attttgtcnc cnggntaaag gncagggnca nnatntnggt taannngnanc 240
ntnngcnttn ggggttaang cnatttтcnn gcntaancct ccc 283

<210> 1695
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1695
ggccactccg cctcttccct cccttcgtcc cttcttcctc tccctttttt ccttcttcct 60
tcccctcctc gccgccaccg cccaggaccg ccggccgggg gacgagctcg gagcagcagc 120
caggtagaac tttagacttc atagcactga attaacctgc actgaaagct gtttacctgc 180
atttgttcac ttttgttgaa agtgaccatg tctcaagttc aagtgcaagt tcagaaccca 240
tctgctgctc tctcagggag ccaaatactg aacaagaacc agtctcttct ctcacagcct 300

<210> 1696
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1696
caattacaaa aatggcagca ggagattaat tatgagatct acactgaaat gacttaacct 60
aaaattaatg tgttggcagt ttgcaatatg ttaaattttg gcattatctc tcttttggca 120
atataaaaat ctttttttaa aaaacatgac atttgaattg aacatgtgca gaacccctga 180
agtatgtctg agaaacccta ggttctgtgg catatgagat gaaaaccact gacaaagaga 240
accagatatt acatatgttc actgcatttt cacatcaaga aggcttggga aaagggctag 300

<210> 1697
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1697
cagttttgct gtacctcttg aaagttaaag agacatctca gcactttagg aggccgaggc 60
gggtggatca cttgaggaat aaccaggcca tacggagtta ggagctgaag ggacacgatg 120
agaagtgacc agaaggtaag agtgtgagcc ctctgtcacg cccagataag cgcaactaga 180
ggactccttg gtctagtggt aacgccagtg cctgggaagg cacctgttac ttaagcggga 240
aagggaatct ccttttccct ggaggaatta gagaacactc tgctccacca cttcttgtgg 300

<210> 1698
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1698
gcttcttgtg ttggaggaaa cttcagatac ttcatttact ccagagtgcc cagagattcc 60
ccagtcggaa aggatagact gcacacctga ccaggaggtg accgaggata tctgcagatg 120
gcaatataag tgctgctggt cgcctgtggc agatgccaat gtccctaggt gcttcttccc 180
ctggaactgg ggctatgaag ccagcaatgg ccatacaaat acaagcacag gatttactgc 240
ccagttgaaa aggttgccat caccatctct gtttggaaat gatgtcgcca ccacccttt 300

<210> 1699
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1699
gccatacttc ctgccttcca ggaacaggga caccagtgtg actggagcac agtgagcagt 60
ggggtcggac cggacaccgt cgccaggtcc tgtggggcct tgttgctatt gcaagggctt 120
cggtttggac tgagagtgag cagagaagcc tgttagagag tttcaaataa agatgggaca 180
tgatctggct gatgttcttg gaggacatgc tgctgctgtg tctcatgaga atagactgaa 240
gcggggaaga gtggaagtag gaaaaccagt tgggaggctg ttgtaaccta ggtgagtgag 300

<210> 1700
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1700
gatggacagt ggcactcggt ggcagtcacc ataaaacaga gactgctttg gtgtgaccga 60
cgttgaggtc ccacctgccc cactgtccat agaggccgtg acctttcctg cctccaggta 120

aacacataag tgcttcccgg gctgacttcc gatgtgtatt aggatcccag tgagacttct 180
tgggcggatg ctgaaaacaa gcttaaattc tggccccaac aatacagagt gagccaagac 240
gacatgacct ccttcttcag agaaataaat gcctttctcc aaagcctcta gaactatagt 300

<210> 1701
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1701
ggcattcaca ttttaatatt ccttggatga acatggcatc atatgattag aaaaccaaaa 60
ttcatttttg atggctgttg tggtcagatc gtgtcctcta aaattttatg tgctggaaac 120
ttaatttcta gtgtcaacag tgccgagagg taggggcttt gggaaagttt aatggattaa 180
tgcccacata taagggcttg ttggagggaa tttgggctct ttgttgcccc ttccatcctt 240
tctaccatgt gaggacgcca cactcctccc ctttggaaga tgcagcaaac aaggtgccat 300

<210> 1702
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1702
ctcgacttaa ggcaaagcag gagaagcgct cagagaagga cacgctcaag accagcaacc 60
ctctagtctt agaagaggca tcagccagcc aggcaggcag cagaaaggag agtcggttgg 120
aatcatctgg caagaacaaa tcctatgatg tgcgaattga gaactttgat gtgtcttttg 180
gcgatagagt actgctggct ggagcggatg tgaacctggc atggggccgc cgttacgggc 240
tggtggggcg gaatgggttg gggaagacaa cgttactgaa gatgctggcc acccggagtc 300

<210> 1703
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1703
ggaaaattcc agtttatacc tgttgtacct gtgtaattat tggtagcact ccctttcact 60
cttacaatgt cttggtttgg atgatatatg gtgaagtttt tgttgaaact aaattatgaa 120
gtctgatata tttggataaa aataaagaat tgcttttctt ctccttttgc tgatttttg 180
acacatcatt ctaagcaaaa tcatctcagc ttcgtatatt tcagcctgaa gtacttctta 240
ccaaagttgt ttcatgtaac atttgttcaa tatgttcgtg acatgtctct cagtaatgaa 300

<210> 1704
<211> 287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(287)
<223> n = A,T,C or G

<400> 1704
tgtacataac tatttaatgc agcggcagcg gcgacagcct tccctgagag gacttaaaag 60
cagaaggaaa ccgagatgct tcccgcagcc gtggacgatt ctccaggact ctttttttac 120
cttgagcact tgcctcgtga gacttcatag aacagtggtt tactgtcccc cccttctcac 180
ctcctcattc tctctggctc tttctgtctt cctcttctca ccctcctccc tccccttagc 240
catcacttct gggaagtann nnnctgacct aaaggtttta gattcnc 287

<210> 1705
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1705
gggatcaagt ccatcaggtc ccaggaaagg cgtgaatggg agtctgaagg ggagaaatgg 60
aactgcaaat aattatttgg aattatttat ttatttattt atttatttat ttatttttg 120
agactccatc tcaaataaat aaattaaaaa aaactgctcc aaacaaaaag atataactta 180
ctttagtgca taattctaaa cggtgttttt gctataaagg gcatcattgg gataaatggt 240
gaaacttgaa tgggatctga gaattacatt taacttttct gtaactttgt gcttatttca 300

<210> 1706
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1706
gtcagaggtc aacaatgagt atgtggcaat aacaggattc aaacccagat ctgttagctt 60
ccaaagtcct tggtcttaca tgctacccac tagttccttg gaggggctc cggaccatgg 120
aggtcacaca ccagtgctcc gagtgtggtc ctcacagcac ctgcatcaac atgaggttgg 180
gatttgatta aaagtggatt tctggggcca cccacattct gaatctaaag ttctgggtgt 240
ggttttagga acctgtgctt ttaacaagta cccttagtga tttatatact tactaaacac 300

<210> 1707
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1707
gagcagtaag gtcaatttct agtctgctct tgtttccgac ttgtgaaaat aagctgttaa 60
tttacattgt ccaggtgagg gagaccacct ggggagacag ctgtttagaa acaaaaggaa 120
agatggtttt tgtttgtgtg gctcagtttc aaagcttaat tttccctttt tttgtagtga 180
gtttgtgatc ccaagatttt attttccttt tacaatcaca tggaatggca cccatttatt 240
tagaattgtt tctctactgt ctcctcacct gctggagact gtgagcagct ttatggctct 300

<210> 1708
<211> 296
<212> DNA
<213> Homo sapiens

<400> 1708
attacaacaa tatggatagt agggaggagg aaaacaagag gagaatggga tcaacagaag 60
gcatatatgg ggagtgtctg gatggctgga aaattccatt ttttgaccaa gatgtggtaa 120
acacggggag taaagttata attttttctc ttactgtgct tttaggtttt gttgctttct 180
gtctgtatgc tgtgttccac aataataaaa atatttaaaa ggcaaaaaaa agtaaaataa 240
tgaatataaa attacactga aactacatat tctcatagat agaattgtaa ttatta 296

<210> 1709
<211> 226
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(226)

<223> n = A,T,C or G

<400> 1709
gaaacactga aatgtatact tttaagtggg tagattttat ggattgtgaa atacagcaca 60
aagctgagaa aaagggaaca gaaaattatc aaagtcaaac cctacacaaa gttattagaa 120
gagaaaaaca ctacagaaag acacgctcaa aaaaacagaa caaatctgaa acatggtaag 180
acccctctcc acaaaaaana naaaaaaaaa angntttaaa aaacnt 226

<210> 1710
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1710
agcctctgat catcaagaca tggcagaata caaagacaag tcacaggcta gctgaagata 60
tttgcaatac ataaatccag caaagactta tatccagagt atataaagaa gttctgtaaa 120
tcagtgagaa aaaagacaaa ccccccaatt aagaatagtc aaaagatttg aacaggcact 180
tgacaaaagg ggggtattga aatggccaat aaacacataa tcattactta tcacagaaaa 240
gcaaattaaa aacagaaaga gataccacaa cctcctcccc agaatgtcta tatggaaaca 300

<210> 1711
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1711
gaaacagttg gctattcatc atcttcggca cttatgacaa cattaacaca gaatgccagt 60
tcatcagcag ccgactcacg gagtggtcga aagagcaaaa acaacaacaa gtcttcaagc 120
cagcagtcat catcttcctc ctcctcttct tccttatcat cgtgttcttc atcatcaact 180
gttgtacaag aaatctctca acaaacaact gtagtgccag aatctgattc aaatagtcag 240
gttgattgga cttacgaccc aaatgaacct cgatactgca tttgtaatca ggtatcttat 300

<210> 1712
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1712
ctaaaagaaa atttatattc taatttttat ttgttgccta tgtttcataa tttttaatct 60
aaggtctttt tagaaatgtt tgttagtcca aatgagtgct cacaatatgg taaacacatg 120
ggagatttct tttttttaa attttatttc catacgttat tggggatcag gtggtgtttg 180
gttacatgag taagttcttt agtggtgatt tgtgagattt tggtgcaccc atcacctgaa 240
cagtatatac tgcactccag cctgggcaac agagcagact ccatctcaaa acaaacacac 300

<210> 1713
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1713
caccgccagg ccagctgtca ggaaacaggg gctctaggcc cagcttcacc acttaggagc 60
tatggctttg ttcagaaaca ttgtgactct cttacccaca cattcctctg ctggaagggg 120
agattgacaa accagcatca tctctaattt actacaaaag ccctcactgg aaattattct 180
taacttagca gctggtagga tccattaaaa aaaaaagtaa gttagactgt gttactctgc 240
tgctcaaagc cctgcagtgc ctcctcattt tacctagcgt aaaacctaaa gtcctttcca 300

<210> 1714
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1714
ccctttctgag cctgtccatt catcggtggt tctgccccta ctcccccagc cctaaatacc 60
ccagctgctg ttcctcccca tcacccagcc accggattct ccattcaccc ctttctctca 120
cccctggagc cccgtgggtg ggggcagggc atgagttccc cagtccccaa ggaaaggcag 180
ccccctcagt ctcccctcctc ctcattccct tccatctccc tcccctctgc cttttaaacc 240
catcccctcc gattcccctc ctccccccctc tctccctggt gtcaactcga ttcctgcggt 300

<210> 1715
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1715
atgaccttct gcctgttcta tctctgagga cagttgtgat tggatttagg gcccatccag 60
ttagtccagg atgatctcat ctcaagatcc taaatctgat tacaattgca aagatccttt 120
ttccaaataa ggtcacatgc acgtaagttc cggggattat gcttgcgtgg gacacatctt 180
ttttgaggcc accattcaac ccactacaaa atccaactga agcccagcga agtggctcat 240
gcctgaaatc cccgcactgt gcgaggccaa ggcaggaggg tcacctgagg ccaggagttc 300

<210> 1716
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1716
ggagatttca acttaacttg accactgcac tccagcctgg gtgacagagc agagcaagac 60
tgtgtctcaa ataaataagt aagtaagtaa gtaaatatcc tgtaggtatc tatgtgactc 120
aaggctagtc actttcctat ctatgctcca gttttctcat atttgagaca agagacttga 180
ttttagcata aaggtgagag ttgaagtaat gagtgtgaaa gaggaaaggg agaaaacata 240
cagagaagag cagaaaacac aagcagctgg taggcagaga atgcagaaat tcaagttaga 300

<210> 1717
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1717
cagagttttg agcagagaag tgacactatc agacttaagc attaaaagaa ttgtccaatg 60
aatggctgtg ctgaaaatat atttgaggta aagtaagcta gaggcagggg tattgaaatc 120
aggctaagag atgtttgtgg tttgaattaa gtggtagcag gaggtgttaa gaattagtca 180
cattgtgtat gtattttgaa ggtacaacca acaggatttc caggcaagat agagtgtgat 240
gtgaaaaaga aagaaaggag tcagtagtga ctcaggagtt tgtctgagca tccgaagtgt 300

<210> 1718
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1718
ctgagacctc gtctctataa aaacaaaaca acaaaacata aacaacaaca acaaataact 60
atgtgataag cattgggtta ggcactagaa aatagtgctc aaacaacaac aacaacaaca 120

aaacatgatt cttgtctcaa agaatgcaca atgttgggga aagacaacta aaaagtaata 180
aaacataaag tttgaaggat attatgatag aggaattata ggatacgttc aatcatttga 240
aatttttgaa tgtcatcctt ttgggtggag caccgagagg gtttgtgaaa aagcttcccc 300

<210> 1719
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1719
gagtggatat gttcgtggag acactgtgga aagtctggac cgagctcttg gatgttcttg 60
gacttgacgt ctccaacctg tcccagtatt tcagcccagc ctcggtgtcc agcagcccgg 120
cccgcgcgct cctgctggtc ggcgtcgtcc tcctggccta ctggttcttg tccctgaccc 180
tgggcttcac tttcagcgtc ctgcacgtgg tgttcggccg cttcttctgg atcgtgcggg 240
tcgtcctgtt ttccatgtcc tgcgtgtaca tcctgcacaa gtacgagggc gagccggaga 300

<210> 1720
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1720
ggccagcgga tcgctgcgag tggccttgaa ggcagctgct gcaggtgaag agtaggcggc 60
ggggcagaga gcggcctccg agggtcacct gaatggttga gcatggaccc tgttgctacc 120
cacagctgcc atctgctcca gcaactgcat gagcagcgaa tccaaggcct gctttgtgac 180
tgtatgttgg tggtaaaagg agtctgcttt aaagcgcata agaatgtcct ggcagcattc 240
agccagtatt ttaggtgggt attttagact tcattctcct agctgtgaat taagggtaaa 300

<210> 1721
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1721
gcacaagcca ctgtgcccgg ccaatactgc aaaatatttt aaaaagttaa aattatctct 60
tctggctggt catagtggct cacactttta atcccagcac actgggaagc tcagtcagaa 120
ggattccttg aggccaggag ttcaagatca gtctgggcaa cacagacccc atatctccaa 180
aaaaataaaa ataaataaat aaaacagtta tcaggctggg agtggtggct catgcctgta 240
atcccaccac tttgggaggc tgaggcaggc agatcatgag gtcaagagat caagaccagc 300

<210> 1722
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

<400> 1722
ggaactccag gcttgccact acccaacccc agcctggctc tgaaaatgtt aattgactgt 60
caggacggct tggtggggcg ggggcgaggt tgcagtgagt gagccaagat cacaccactg 120
cactccagcc tggtgacagt tcgagattct gtctaaaaaa aaaaaaaaaa anntnggncc 180
tttaaanctn tagggngncn nnttacgtaa atccanacnt gataanannc nttgatnagt 240
ttggacaanc cacaantaag aangcntnga aaaaaa 276

<210> 1723
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1723
acagagcgag actccagttc aaaaaaataa ataaaaatta aaaaataaaa taaaataaaa 60
aatttactag gcatccagca ttcattaagg agaataattc agttaaggag gaaaagaatt 120
ctgggattct gggaatttcc ttaaccaata aagagtatgt gtgagaaacc tactgctaac 180
atcatactta atggtaaaag tccaaagatc agcaaaaaga ggatacctgg tctaaacact 240
tccactaagc attatactgg aagttctagc tagtgcaata aatgaaagag tacaaagtat 300

<210> 1724
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1724
ggaagggagg tttaaggaag agactgtgga cagaggtgtt agggaaggtg tcagagaagg 60
ttaaggagcc aacatggatc atgggggtgg tacagtgttg ccagggctgg ggaggattgg 120
ctgcagtgtg gggtacccag ccgctgccat gtggagaggg acctgtcact cctgctgtga 180
actctccctt cttctgccct ctgacctcct gctggtgcct cccattggct aaacacagtt 240
gatggccagt gcactgggga gctgttcttg gagcccacag gcatctgctt cttggcacag 300

<210> 1725
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1725
ggtgattggg ctggttctgt accgggtgta ctccgtgggg ggccgtgatc tggcaaagcc 60
ttggaggtgg gactgtggag gcaccattga ttgaactgtg tcccctgcag ttcacatgtt 120
gaggcccaaa cccccagtgt ggctgcattt ggagtagggc agtaattatg gttaaatgag 180
gtcgtatggg cgggtgctga tccactagga ttaggatcct tataagaacc tgccaccttc 240
tctctgccac gtgaggacat gggtagaagg cggctgtctc ccacccagga ggagcccttа 300

<210> 1726
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1726
caaagctgtt ttataaatta gggagaagag tgaggagaga ggaataggat agacgaaggt 60
agagagaggg agcagtggag aagaaaacct cagagtgagg caaaggaaga ggtgtgaagg 120
ggaaaagaag tggcgatggc agggaagagc ccctggccat gagagagact ggggggagtg 180
ggaaggaagg gaagttatgg ggcagggggc acagagcaga gaacaagaga gtaaggctag 240
agagatgaaa gaaacagtga gactgagcta agaagagcga tctcacgctt aagagacaga 300

<210> 1727
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1727
ccccтctcca cattgacctc tagagtggcc tgtccaactc ctaagtccaa ccttcccaca 60
ccggacagaa agctttttac tggccccgtt gctcccgggt gaggcctaaa cacttgatga 120
tgatgaagat gaagatgtga tgatggtagc catcacacag ctctcccatg taaccctcac 180
gacaaccctg caaggcaaat agcatcacca tccttatttg gcaaatgaaa agctgatggc 240
tcagagaagg taaatgactt gcccaangng actgagccag tattgccaca nacaggctcc 300

<210> 1728
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1728
ctccattgtg aagatccagg catttttccg agccaggaaa gcccaagatg actacaggat 60
attagtgcat gcaccccacc ctcctctcag tgtggtacgc agatttgccc atctcttgaa 120
tcaaagccag caagacttct ctgctgctgt gatctgcaca ccctccaacc tgggcaggga 180
ctggggggat gcagtgtgtg ttagtgccca tgtggcattg tggcactgtt gccccccatg 240
gcggcatggg caagatgacc ttccattagc ttcaagtctt gttctcttgt ctgtggtctg 300

<210> 1729
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1729
gatctctttt gaggtgatgg tgctggccga gctgtttctg gagatgctcc agagggattt 60
tggctataga gtttataaga tgctactgag ccttcctgaa aaggtcgtgt ccccacctga 120
acctgagaag gaggaggcgg ccaaggaaga agccaccaag gaggaagaag ccatcaaaga 180
ggaggtggtc aaggagccca aggatgaggc acagaatgag ggcccggcta cagagtcaga 240
ggccccgctg aaggaggatg ggcttttgcc caaaccactc tcttctgggg gagaggaaga 300

<210> 1730
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 1730
agacaatccc aaatatttgg agattgtctt aactggttta gtgtagctat aaaagaatac 60
atgaagctgg ataatttatg aagaaaagag gtttatttgg ctcacagttc tataggctat 120
acgagatgca tcatgccacc attttcctgg agcccttcag gaagcttcca ctcatggcag 180
aaggtgaagg gcagccagca tgttcagtga tcacgtggtg agagggaagg caagagagan 240
aanagggagg ggncacgctc tattnagtac c 271

<210> 1731
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1731

cagttcacag tattaccctc agtgcaccag aattcctttc tatccatata ctcaccagca 60
cttgttactg aactctagtt tttgccaatt tgatgggtgt gaaatggcat cttattgtga 120
tttttaattt ttctcattac ttacaaagtt catcatgtct cctagccctt tgggtttcct 180
gttcaatgtc aatttcctat ttatgtattg gcccacataa aaaatattgc atagtctatt 240
ttaaaatgat ttataggggc tctttacata ttctgggtac taattattcc ttatgtgtga 300

<210> 1732
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 1732
ctggacgcct ntaatgcgan aanngncccc ngtttaacag accngcaaat ccgggngcgg 60
aacangaccc nnggtttcc tnttgntccc tngttngggg gcggtggntg gggctgtncg 120
gccaannang ganttgnttt ttttangntt taaaananga ttttaaaant cannnnnnng 180
ttttttttn ttttttttt tttttaattc tgaaacagac ctgttttgta ccgagttatt 240
tttgggataa attttactgg ttgctgttgt ggagaaggtg gcgtttccac ctttt 295

<210> 1733
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1733
atggggtata gatggttttc cccctgtgta ctctagtaaa tttctatgcc atttctccta 60
tcgatctgcc ttttgtcagt tgatttttca gcttaacttc agagagcaaa ggggaaggtg 120
gccaagtgca gtgtctcatg cctgtaatcc cagcactgtg ggaagctgag gcaggcagat 180
cacttgaagt caggagttca agaccagcct ggccaacatg gtgaaaccct atctttacta 240
taaagaaaaa taagtcgagt gtggtggtgc acacttgtaa tcccagctac tcaggaggct 300

<210> 1734
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1734
gggggttccc aatagtagaa agggtcccca ttcctgctca gcaccgcacc tctctacccc 60
cccacagaca cacatgcaga cacacacatg cagacaacac gcagacacac acatgcaggc 120
actcacatgc aggcccatgc acacacacgt gcacacacat gcagagacat gcagacacgc 180
aggcacacat gcacacatgc aaagacacgc atgcaggcac acgcagacgc acacagagac 240
acacatgcag atacacatgc acacacacat acacacactg gcccctgttt ttctgtggtg 300

<210> 1735
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1735
gcttgatcgt ctgggcctgt gtttcagctg ggataggatt ctcaatcctt cttgttcaaa 60
tccgaagtcc agaaagctct gaaaactgaa agtttttca taatttattt cactgtaaaa 120
cctgaattga actgatattt atctcactaa aaatgattat tcatatattt tactgtaaga 180

atagtaaaat taccaagtaa tatcccagac ctagttagat aaatgcacta ttttctttta 240
atttcaaaac aatcttaatt ctgaggcaca tttggctgac agcatttcag ataagggatt 300

<210> 1736
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1736
tcctatttta cgtggttgtt gagaggatcc gatggaatga ctagctgaaa gtgtttgtaa 60
aagtcaggat aagtaaagca atgctgcagg aacaaacaat ccccaaattt cagcagctta 120
ctacaaaaaa atatgtattt ctcactcatg ttcatgtcca atgtgtgtta gcaaggagat 180
actgtctctc acagtcatgc aagacccctt gctggggaag ctgcacctcc atatatgctt 240
ctaccatcac cagggcagag gagagggagc atggtggatc atacactggc tcttaagact 300

<210> 1737
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1737
atttcctgag gtctccccag ccaggctgaa ctgtgagtca attaaacctc tttccccaat 60
aaattaccca gtctcgggca tgtctttatt agcagtgtga gaatggacta atacaagtac 120
cattaataaa tttcacaacg tagattaaat gtgcaaattc cttgaaagac acaaattaaa 180
aaatgacctg agaagaaaag aaacttgaat agatctgtat ctattaaaga agttgaaatt 240
ataattagaa acctttttgaa cattagaact ccaggcccct tgttgtgaat tctatcgaac 300

<210> 1738
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1738
gcctgtagtc ccagctatct gggaggctga ggtgggagga tcatctgagc ccagtagatt 60
gaggttgcaa tgaatcatga ttgtaccact atactccaac ctggacaaca gagcgagacc 120
ctgtcgcaaa caaacaaaca aataaataac ctgggcaaca gagcgagatc ctgtctcaaa 180
taaataaaca aacaaaagta gcagattagc tgggcgtggt gttgcatacc tatagtccca 240
gctgcttggg aggctgaggc agaggatcac ttaaacccaa gaggatacag tgagccatgt 300

<210> 1739
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1739
gtttaagtct tgtagctgta tagcattcca ttgtataact tataatttat ttatgggttg 60
tactattgat gaacatttga gtagtcttca gtttggaact accacatatg gtgctgttat 120
gaatactttt gcacaggtat gtgaacacat gtacacattg cagttggtat atatacagta 180
ctgaattact ggcttataaa tatcattaaa ttttaaaaac aaaattaatt gccacaagca 240
tattattgta tctttgaatt ttaaaccaaa ttaaaaattc tatgagttgt tgaatattat 300

<210> 1740
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1740
taaatgttga aattaactag acaaagtagt tgaagtcctg atgaaaagat tgttcagttc 60
ttcttctcct gtagctcaga acctgtttgg atcatacatt taaatgtaga aatataaagc 120
ttttagaaga aaacataggt gaaaacctac aagacaaaac ttggtgaaga gtttctccat 180
gtgatgcaaa aacatgatcc atagaagaaa gaaatctgta aattggactt tatcataatt 240
aaaaacattt gctttgcaaa atgccctgtt aagatgatga aaaaacaaac tacatactgg 300

<210> 1741
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1741
caaataggag atgggttttt tttcgggggg gagggaagga acagctttgc attaacaact 60
actgagaatt atacatttaa agattatctt caatgtccaa taacccttat attcaatact 120
gaatttattt ccacttctcg ccttcatttt tatttgttac gtattctcaa agttctctcc 180
tagtagaaga atgaaccaga aatgaacata agcatgtcgg aattcacgta tgtggcagac 240
tgtattttcc aaagatggcc acaacaatat ttctcattcc acatggtctg ctggaacctt 300

<210> 1742
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1742
aattcacgag gtggaaatag gaaaagctag atgtgagcag ccgacttcac ctcgatcctt 60
gactctcact attcacacca gttatgtggg gagccgtagc tcttccaata tggctattgt 120
ggaagtgaag atgctatctg ggttcagtcc catggagggc accaatcagt tacttctcca 180
gcaacccctg gtgaagaagg ttgaatttgg aactgacaca cttaacattt acttggatga 240
gctcattaag aacactcaga cttacacctt caccatcagc canagtgtgc tggtcaccaa 300

<210> 1743
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1743
gaagagctga agagaggagg tggcaggact aactaaaagt gggacagtca cttgttatag 60
tgaaggtaga atggacagaa ttgggcaact aattaagagg gagaaccctc taggagaaca 120
ggagaacgca tccaaacctg gaaaaccagg aagagaagat ccttggtgag aagcagtcaa 180
tgagtttgct ttgggatatg ttgagttccc aaactcatca tgaggtgagg cttccaggta 240
gcaaatgaat cacttgagac caggagttga ggagcagcct ggacaacata gcaagacccc 300

<210> 1744
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1744
caaaaagtta aaattttatt tttctctcat gtaacatttt ggataatttg atgattccct 60
aatgttggga cccagtcttt tctgtcttag gctcacaact atccttgagc ctgtgtcatg 120

ggggatgact ctgaagctgc gtgcaccctg ttcattcaca ttttcttggc ctgaacttag 180
tcactaggct attcctaact gcaagagaag ctggaagatg tagtcttcct tctgaccagc 240
catgtgctca accacaaatt gagtttcagt tattggaggg cagaaagaat agatatgggg 300

<210> 1745
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1745
aagtctcact ctcatttgtg ctttctccat cccatttccc ttccccttt aggcaaccat 60
tttagctgac ttcttgttta tcttgccagt gctccttcat gcaaatatgg gcatatattc 120
tttcttcccc cactttcttg cataaaaggt agtgtatcat gtatatactg ttctgcacct 180
tgatttttt cacttgacat gtcttagaaa tctttcctta tcagtgttta tagaccatcc 240
tcattctgtt gcatagcaaa ggtgattata ttcctgttac ctttggggtt atggcccatc 300

<210> 1746
<211> 183
<212> DNA
<213> Homo sapiens

<400> 1746
ctactgagcc tggcttgcaa ctggggtgag ctccaccttg aacgtcgatc ctcctgcctg 60
gtggagccat cccagctgat gccacatgaa gcagacacaa gctgtcccta ctaagctctg 120
ctcaagttgg atattcatga gtgaaataaa tgactgttac taagtaaaaa aaaaaaaaaa 180
aaa 183

<210> 1747
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1747
gagaaacact cagggcctga accaaggaat taactgtgat tggagaggag aggcagcagc 60
cacagaaggc acaaagaagg tggaatcacc caaacatttg tcagattgag gggtgagggg 120
gcatgagaac tccaagatta cactcaggtt tctgtctttg gtgcctttaa aaattttaac 180
caaagttgag aatttactgt atgctgggga ctctataaga ggctttatct ttattatgtc 240
tgttaatcct tgcaacagcc ctgtgagagg tatttttgcc ctcatttgat ggatacctga 300

<210> 1748
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1748
atatgcacat tgtaccaatg gcagactttt ggctttgata ttgttctata attatgtaag 60
atgttaccat tatgggaaac tggaggaagg gcatatggga cttctttgta ctgctttttc 120
tattccctgt gagtttataa ttattttata ataaaagttc aaaaacactt attggatgga 180
catcacagaa cataatagaa gaaagaatca gtgaattata ggtctgttta atagaaatga 240
ctcaaactga cacacaaagc aaaaagaatg aagaaaacag aacacagtgt ctgagacttt 300

<210> 1749
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1749
cctgcctccc attctatgca aagtcatccc tccgggcact gagataaatg cttatctaat 60
tgcctccttt ggagaggctc atcagaaact caaaataatg caaccatttg actctcacct 120
acctgtgacc tggaagatcc ctctctgctt gagttgtcct gcttttctgg atggaaccaa 180
tgttcatctt acatatattg attgatgtct catgtctccc taaaatgtat aaaaccaagc 240
tgtgccctga ccaccttggg cacatgtcgt caggacctcc tgaggctgtg ccacaggcat 300

<210> 1750
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1750
ggaatacttc ccaactcatt ttatgaggcc agcataactc gtatcaaaac ctgacaaagt 60
cattacaaga aaagaaaatt acagaacaat attgttagtg aataaagaag caaaaatcct 120
caacaaaaca ttaacaagtg aagtaaacaa tatataaaag gataatactg catgaccaag 180
tgggtgtggt taataatttc aggaactcaa catcagttta acatttaaaa aaatcaacat 240
aatattatta ataaaataaa ggagaacaat aatatgatca tctcagtgtg taaaataaaa 300

<210> 1751
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1751
ctagcaactg ttccagatga gcaggattgt gttactcaag aagtgccaga ctcccgccag 60
gcagaaactg aagctgaagt gaaaaagaag aagaacaaga agaagaacaa aaaggtgaat 120
ggtctgcctc ctgaaatagc tgctgttcct gagctggcaa aatactgggc ccagaggtac 180
aggctcttct cccgttttga tgatgggatt aagttggaca gagagggctg gttttcagtt 240
acacccgaga agattgctga acacattgct ggccgtgtta gtcagtcctt caagtgtgac 300

<210> 1752
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1752
gttaaaagaa taaaaaagaa taattgaagc cttcgagaca tatgggatac tataaagcca 60
ccacatattt gaatcatttg ggtcccagaa gacagagaac aaaaggattg gaaaactcat 120
ctatttttt gttattaaat aatagatgaa aacttcccaa atctatcaaa tgatttagat 180
atccagaaac aggaggctcc aagatccgca aacatataca atgcaagaaa gtcttctcct 240
tggcacatta tagtcaaact atctaaagtc aaagacagaa ttctgaaaaa ggcaagagaa 300

<210> 1753
<211> 295
<212> DNA
<213> Homo sapiens

<400> 1753
gcctcaggag gagctcaaag aggagcagac agccatggtt cctccagcca tccctcttcg 60
gcgctgcaga tactgcctgg tgctgcagcc cctgagggct cggcactgcc gtgagtgccg 120
ccgttgcgtc cgccgctacg accaccactg cccctggatg gagaactgtg tgggagagcg 180
caaccaccca ctctttgtgg tctacctggc gctgcagctg gtggtgcttc tgtggggcct 240
gtacctggca tggtcaggcc tccggttctt ccagccctgg ggtctgtggt tgtgg 295

<210> 1754

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1754
gaagagaact atctaaatga gtaatggtca agaaatttta aagcataatg acatgaaaca 60
aacaaccggt ccaggaagct cagagaatac aattcatgac aaacaacaaa aatacagcac 120
cagacatagc atttcctata tgtagaataa aagaaaataa aataaatcaa taaatagaca 180
aagagaaaat cttgacagaa tctggaatga aaactacatt ccttgtagag aaaaaagagc 240
aaggatttca gcccacttcc agtaagaaac caggcaagaa agaagagagt tgcgggaaat 300

<210> 1755
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1755
aataattatg ctgaatgaaa gaagccagac agcaaaaatt tcctactgag tgattccatt 60
tatataaaaa tctagagaat gccaattagc ctttagtgaa ataaagcaga acagtaattg 120
cctgtgacag ggtgggaaag atttggactg gaagcaggga ttaccaagag gggtgagaaa 180
acttttgaag gtgatgaata tgtacattgt cttcattgct ttgatggttt tacaggtgta 240
tatgtaattc aaaatgatca aattatacac tttaaatatg ttcagtttat tttatagaat 300

<210> 1756
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 1756
atatgctgag gtcctggcct ccagtacctc agaatgtgac tgtatttgga gatggagata 60
cagccttcaa agaggtgagt aagttaaact gaggttgtta agatgggccc gcaaccaatc 120
tcaccggcat ccttagaaga aaaggagttg gagacacaga gagagaggct agacacaggc 180
acacgtgaag ggacggtcag gggaagcggc agcgagaggg tgctgtctac agccacagag 240
aggcccctga ngagaccaac gctgccggna ccatgatact ggactgantt accg 294

<210> 1757
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1757
tgattctgga acagagtgca caccaggaga atctaagaat ttgggtcaaa aagaaaatgg 60
caattacatc atattctcta ctatattttc ctgtgtattc aaaagtatct ttttgaaaat 120
ggaagggtag atgacatttt ctccgatctt tattatgttc ggttcacgga gtggctacat 180
gaagttctga aggatgttca gccccgggtc actccacttg gctatgtctt gcccagccac 240
gtgactgagg agatgctatg ggagtgcaag cagcttgggg ctcactcccc ctccaccttg 300

<210> 1758
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1758
ccgacccccc aggaggccat ccagcggctg cgggacacgg aagagatgtt aagcaagaaa 60
caggagttcc tggagaagaa aatcgagcag gagctgacgg ccgccaagaa gcacggcacc 120
aaaaacaagc gcgcggccct ccaggcactg aagcgtaaga agaggtatga gaagcagctg 180
gcgcagatcg acggcacatt atcaaccatc gagttccagc gggaggccct ggagaatgcc 240
aacaccaaca ccgaggtgct caagaacatg ggctatgccg ccaaggccat gaaggcggcc 300

<210> 1759
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1759
cccatgtccc gcccgctcgt ctgcctggct gcggggtgac acggggcttc gccttgggaa 60
ggggtcgagg gaagcagtta gacggctgcc gggcggcggc tgccgcgcgg cacacaatat 120
ttatttaatt gcccaactac cactgatgaa gatatattgg agtgactgct gaaattgcct 180
ttttgttttt aaccagagga cagtccattt gtttcacttc tttttgcttt ctttactgct 240
atgagcttta ctgaacggct gaaaaacttg gaaaataaaa tggacatgct gtagtcttga 300

<210> 1760
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1760
atcagtatga actcttaaaa catgcagaag caactctagg aagtgggaat ctgagacaag 60
ctgttatgtt gcctgaggga gaggatctca atgaatggat tgctgtgaac actgtggatt 120
tctttaacca gatcaacatg ttatatggaa ctattacaga attctgcact gaagcaagct 180
gtccagtcat gtctgcaggt ccgagatatg aatatcactg ggcagatggt actaatatta 240
aaaagccaat caaatgttct gcaccaaaat acattgacta tttgatgact tgggttcaag 300

<210> 1761
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1761
ctaaggaaag ggcctagggc caaggcaggc taaatgccac tcgggtcttt gttattgggc 60
ttttattatt ctgttggtct gttccaccac cccagtggat gttaataggc caaattttgt 120
aaacattttg aataatttgc cctgtaaaat gagttcctta gtcactgtga agctcttgag 180
agacttccca ggttgatata atttttccag taaggtttaa ctactgccat tgctgtgacc 240
tatcaagaag aaggtgttaa cccagtttga aaacatgcaa atcataatta gtacgtgctg 300

<210> 1762
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1762
ggaagtacaa attaagatca cagtgagata ccattatcca cttgtcacaa tggctaaaat 60
aaacaatagt ggcaatacca agtcctgtga aggatgtgga gaaatggatc acttatacac 120
tgctggtggg catgtaaaat ggtacaacca gtctgaaaag cagtttggca gtttcttata 180
aaagtaaaca tgtaattata tgctgtggtc tgaatgtcct ccaaaaattt atatgttgac 240
acccaaaccc tcaaggtgat ggttttagga gggtaggccc tttgggagat tagtttctga 300

<210> 1763

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1763
gctcaaacaa tctgcccacc tcgtcctccc aagatgctgg gattacagtc atgagccact 60
gcagccagcc tacattttta aatggttgga aaatcaaaag attatttgat gacatgtgaa 120
aatggtataa aactgtgaaa tctattgtcc ataagtaaag ttttctttga acacatccat 180
gctcactcgt taacttattt tccatggctg ctttcatgct gcaatcttgt ccctgccctt 240
aaagagctaa gggtctagta gagaggcagt aatggtgtga gataatggct aaatggaagc 300

<210> 1764
<211> 94
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(94)
<223> n = A,T,C or G

<400> 1764
cccctccagc ccccaaacat agcttcaaaa ccttccttgc tatttgttct tnggnnnggg 60
ggnnttttta ataatcgctn ncncgncccc nnac 94

<210> 1765
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1765
agaaggcagg aatgtcaggc ctctgagccc aagccaagcc atcgcatccc ctgtgacttg 60
catgtatacg ctcagatggc cagaagtaac tgaagaatca caaaagaagt gaaaaggccc 120
tgccccgcct taactgatga cattccacca ttgtgatttg ttcctgcccc accttaactg 180
agtgattaac cctgtgaatt accttctcct ggctcaaaag ctcccccact gagcaccttg 240
tgacccccgc ccctgcccac cagagaacaa ccccctttga ctaattttcc attaccttcc 300

<210> 1766
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1766
gacatacgag aagaaattaa atgtgacttc gaatttaaag caaaacaccg aattgctcat 60
aaaccgcatt ccaaaccaaa aacttcagat atttttgaag cagatattgc aaatgatgtg 120
aaatccaagg atttgctagc tgataaagaa ctgtgggctc gacttgaaga actagagaga 180
caggaagaat tgctgggtga acttgatagt aagcctgata ctgtgattgc aaatggagaa 240
gatacgacat cttctgaaga ggaaaaggaa gatcgtaaca caaatgtgaa tgcgatgcat 300

<210> 1767
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1767
gagaactcca aatagcccaa gagggtggtg cacccccaac ttcataaggg tagaggctcc 60

tgagattagg agaacccttt ttaggcttta ctctatgtac ctcttcattt gagtgttcat 120
ttgcgtcctt tataaccagt aaaacaaagt acgctgtttt cttgagtttt gtgagccctg 180
tagcaaatta tcaaacctga gtagggcagt gggaactcgg aatttatcac cattcagaac 240
tgcaggttgt ccttgtgagt ggcatctgat gtgggggaag tcttggactg agccccttaa 300

<210> 1768
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1768
ccggcggctc tggctgcccg gcggttgaga gcatggcctc tccaggggca ggtagggcgc 60
ctccggagtt accggagcgg aactgcgggt accgcgaagt cgagtactgg gatcagcgct 120
accaaggcgc agccgattct gccccctacg attggttcgg ggacttctcc tccttccgtg 180
ccctcctaga gccggagctg cggcccgagg accgtatcct tgtgctaggt tgcgggaaca 240
gtgccctgag ctacgagctg ttcctcggag gcttccctaa tgtgaccagt gtggactact 300

<210> 1769
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1769
agagaactag tctcgagttt ttgacagata atagccaccc taggaggtgt gaagtggtat 60
ctcattgtgg ttttccattt ttctgatgac tgagaatgtt gagcatcttt ccctgcgtgt 120
tgtccatttg tgtatcttct ttagagaaat atctgcttac gtcctttgcc cagttttaat 180
tggattgtct ttctgttgct gagttgtcgg aattggttgt acatcctcca tactgagtcc 240
tcatcagata cctgatttgc gaatattttc ttccatacca tgagttatct tttcactttc 300

<210> 1770
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1770
ctagaattct gttactgtca aaaacgtttt caaaaatgaa ggcaaaataa agactgtttc 60
tgagaaacta aatcaaaggt aattttatta cctgtagacc tgtctttggg aaacattaaa 120
ggatgtttga gggcagcagg aaaataatac aaaacttaag tttgggtctg tacaaagaaa 180
atcagctttt ctaagatcaa gccagagttg cttctcttac aaccttacgg cgctaatgca 240
ttaagttgaa gtcgactgcc aaagaggccc agcagagggc agcaccccca tcatttttt 300

<210> 1771
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1771
gcatagagac catcatggca tgctccccgt gtgaaggcct ctacttttt gagtttgtga 60
gctgcagtgc gtttgtggtg actggcgtct tgctgattat gttcagtctc aacctgcaca 120
tgaggatccc ccagatcaac tggaatctga cagatttggt caacactgga ctcagcgctt 180
tccttttctt tattgcttca atcgtactgg ctgctttaaa ccatagagcc ggagcagaaa 240
ttgctgccgt gatatttggc ttcttggcga ctgcggcata tgcagtgaac acattcctgg 300

<210> 1772
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1772
gtttagggtc agatccatgt atttgtagct tggaggtgag cccaggggtt catacacaac 60
tttgctccct actgtctgtg atccctctgc cacttttctgg ttccttggag ctccctttca 120
tgatcctcct gtcagaatac cagggcttta atttgcccac tctctgccat gcacttctca 180
tgactgcatc tgcatccagg gccaagcggt aggaggacag agggagccta aataaacaat 240
aggatttgtt tcacagtctt gaagctacag cttctctggt cagagaaaag aattcaaagc 300

<210> 1773
<211> 288
<212> DNA
<213> Homo sapiens

<400> 1773
taattatagt ccctggagtt atgcagctaa ttaaaggtca aacgcagaac tttaaagacg 60
ccttttcagg aagagattca agtattacgc ggttgccact ggctttttat tatggaatgt 120
atgcatatgc tggctggttt tacctcaact ttgttactga agaagtagaa aaccctgaaa 180
aaaccattcc ccttgcaata tgtatatcca tggccattgt caccattggc tatgtgctga 240
caaatgtggc ctactttacg accattaatg ctgaggagct gctgcttt 288

<210> 1774
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1774
caacaaacta ggaatagagg aaactatctc aacataatag aagttatata ttaacaaccc 60
acagcagacg tcacattcaa tggtaaaata ccaaatgctc ttcctctaag atccaggaac 120
attacaagga tgcctaactt tgccacttat attcaacata gtactggaag tcctaaacgg 180
agcaattagg caagaaaaag aaataaaagg catccaaatt ggaaaggaag aggtaaaatt 240
atctctgtag ctgatgatgt gatcttattt taaatgctgt gatcctaagg ataccaccaa 300

<210> 1775
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1775
ctcctgccct ccctggggtg gttctgtctt ttgcaaaggt ggctgcatcc ttaggggaag 60
gtgaggggag aagcagggag catggagaga agtggctttc gattttctct ctccttttgg 120
ggagttcctc cttatgtggc tggtctggtg catagtgtga tgtattcctg tacgcaacgt 180
tgccctgaca gccagtccaa gctgagtcta gagctggcaa ggtgagctcc cagtagtaag 240
agggtgtggg cggcaagcca cccaggcacc gaggcaagag acagaggaca cgagctgttc 300

<210> 1776
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1776
cttgagagaa tagatctaga tgggtggggc acggttctgg ggaatggaag ggccaaagag 60
gaaagtgggc aatggtgggg ttgagaacgc agcttctgga ctcagcaggc ctgggttcaa 120
actctgttaa tcactcctgt taatcccagc gctttgggaa gccaaggagg gaggatcact 180
tgaggccagg agttcaagac cagcctgggc aacataatga gattccatct ctacaaaaaa 240
taaaaacaat tagccaggtg tggtggtgca cacctgtagt tccaggtact tggaaggctg 300

<210> 1777
<211> 107
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A,T,C or G

<400> 1777
actttaaacc ctacctgtgt gattcagtag ggtttgagaa ttacgtgtga tactgggggg 60
nntgggngnn ttnntngnna gnnngggggn nttnntcntt ntttttg 107

<210> 1778
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1778
catttcttgt ctttattaat ttgacttctc tagggacctc atttaaatga aatcatacag 60
aatttgaact tttgtatctg gataaaaaat atatacagca ttttgctgac tgtaaaatgt 120
attttttgg gccgggtacg gtggctcatg cctgtaatcc cagcactttg gtaggctgag 180
gcaggtggat cacctgaggt cgggagtttg agaccagcct gaccaacatg gagaaacccc 240
gtctctacta aaaataaaaa attagccagg cgtggtggca catgcctgta atcccagata 300

<210> 1779
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1779
tttgggnatn tgngggqttt ttnnttttttn ttttnccngg tcngttanaa aaaaaaaaaa 60
agccatgcta tcaatcaaga ttctttttttt ttaaactttc tcccatgaac taccaccatc 120
agtatgaatt gatgcaacaa atgaagaaat atttaaagac agcctctcaa cagattgtat 180
ctcaggttaa atgctaacta attatgtctg tgttgggggt tgcaaagaga ttcttaaaag 240
tatctgtgtg ttgatcatca gttttacaaa aacacctatt tggctgaaag gaataaaa 298

<210> 1780
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1780
gatctactgc cttagcaaat gtcatatata tgattacaag attattaact atagtcacca 60
tgctgtacct tggaaaagaa aacctacttt tcttgcttaa gtaaaacttt tacccttttc 120
aaggactggg ggaccttgag tatgtgcaga ttttggtaca cgcagggggt cctagcacca 180
atctcctgcg tgtaccaagg gatgaccgtg tgtataggaa atcacatgtt tattacccat 240
gtatttgttg ttggatgctt agtctgtttc catatctttc tattgtaaat agtgccgcag 300

<210> 1781

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1781
gaatggagtt ccacctgggc tgttttatta actatttgcc cctccgtttc ttcatctgga 60
aaacagaaat gataacctta ctattaattg tgtgaccttg gacaagttac aacatctccc 120
tgggcgcgat tgtcccatct gaaggtcata atagcacctg ccacagagga tggtagtaag 180
gattaaatta gttaatccat gtaaattacc taggtaagtg cctgccatat agcaagtgct 240
tggtactttt ttttaaaaat cactgttatg actattgcag acacctttgc catgattgga 300

<210> 1782
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1782
gggggaaaat gacagaggaa aaagagaaaa tggagcagaa aaaaatagta gaagaaataa 60
tagctaaaaa atttcagaat tcagtgacaa gtagaaattt acagatataa gatcatatgc 120
tcaagaaaca ccaataagaa taaatattta aaaatcccac gctggttctt gcaaactttt 180
gaaaaccaaa gttgaagagc aaatcttgaa agcaacaaga gaaaagccat acagtaataa 240
tccagttaat ggctgacttc tcactggaaa ccttgcagac cagaacggca tggaataaca 300

<210> 1783
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1783
ggtggatgcc atctttggct tcagcttcaa gggcgatgtt cgggaaccgt tccacagcat 60
cctgagtgtc ctgaagggac tcactgtgcc cattgccagc atcgacattc cctcaggtgc 120
tgggatccag aaggtggggt gggagagatt ggggccctac cctcctgact cttgcccaca 180
ccaggtctaa aataatttta gtctagaggg gcagaacaca gctttctgga cccccatcag 240
ggctggggaa cagtgttcag aagtcccctt tacatgttgg ccccatgaag agaccacggc 300

<210> 1784
<211> 299
<212> DNA
<213> Homo sapiens

<400> 1784
gacctcctga gggctgtgtc atgcgccatg atcagtcata tttggctcag aataaagctc 60
ttcaaatatt ttagagttca actcttttca ctgacaatag taatgagatt ttaaaagatt 120
tttttaaaaa aggaactcaa tggttaaaag tcagcttaat taaaagctaa catccaagat 180
gtgtgtgtgt gtgtgtgtat gtgtgcatgt gtgtgcatgt gtgcatgtgt gtatttaaaa 240
gaccttcatg ttttgttttg tttttttttct ctcccaggac cttgtctttt ttttttttag 299

<210> 1785
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1785
aatacctgag actgggtaat ttataaagaa aagaggttta atgattcaca gttcagcatg 60
gctgggaagg tctcaggaaa cttataatca tggcagaagg tgaaggggaa gcaaggcacc 120
ttcttcacaa ggtggcagga aggagaatga acgcaggagg aactaccaaa cacttataaa 180

accatcagat cttgtgagaa ctcactatca cgagaacagc atgggggaaa tcacccccat 240
gattcagttt cctctacctg gtctctcttt caacatgtgg ggattatggg gattataatc 300

<210> 1786
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1786
tgaagactaa gatgaaaaag gggaagaaga tggaaaagag gataaaaatg gaaatgagaa 60
aggagaagat gcaaaagaga aagaagatgg aaaaaaaggt gaagacggaa aaggaaatgg 120
agaagatgga aaagagaaag gagaagatga aaaagaggaa gaagacagaa aagaaacagg 180
agatggaaaa gagaatgaag atggaaaaga gaagggagat aaataagagg ggaaagatgt 240
aaaagtcaaa gaagatgaat aagagagaga agatggaaaa gaagatgaag gtggaaatga 300

<210> 1787
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(175)
<223> n = A,T,C or G

<400> 1787
tctacttgtg tgtgtatgtg tgcacatgtg tgtatgtaca ggtgtatgta tatatctata 60
gatagataca atacattctt tagacacttt tcaagattct ttgctgtggt atattgtgct 120
caactcaggt gccaaaggag ctttttttt tttttgnaaa ggnattttnn nttng 175

<210> 1788
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1788
gataatactt gtggatcttg atgctaagga gcctgctcct tatgcatcaa gaaacacata 60
accaggtaca gaaactctgc agagtactca tgagtggcag gaggagctgt accacaagaa 120
ggaagggctc agggaagggg acatgtctta ctcacttgtt agcttccacg gatgggatgt 180
ggcagtgctc atgaaaggat cttggacaag tgtcgcagca gaacagccgt ccccatttgt 240
tgcacacctc acatatattt gagttttccg gctagaaggg gagatgtaga catcaccggg 300

<210> 1789
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1789
tattacttta ttttattnta ttttattatt attttttttt gggacagagt ntnactctgt 60
cacccaggct ggagngcaga ggccgnanct cggctcacta caagctntgc ctcctgggtt 120
nacnccattn tcctgcctca acctcccgag tagctgggac tacaggcgcc tgccactgtg 180

cccnnctaat tttttgnatt tttannanac acanggttnc accatattag ccagganggt 240
cncgatntcc tgaccttgat nncngcccgn ctcgacctnc caaagtgctg ggattacagg 300

<210> 1790
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1790
cggtgctggt gcggcggggg actgcggggc cagcctcagg tagcagcagc agcagcagca 60
gcagcagcag cagcagcagc agcagcagca atgtttcact tcttcagaaa gcctccggaa 120
tctaaaaagc cctcagtacc agagacagaa gcagatggat tcgtcctttt agaagcatct 180
cagaggctct ccagtgacgt gctgttaaaa gtgctgaccc tgggtcagac cctttgggtt 240
ggcttcgtgg ctccacgact tactctctac ccttggcagt ggcgtgatct cggctcactg 300

<210> 1791
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1791
cttgaaaatg ctgcaaatga ccctctaatg atccctgaag atcaaaacag gggtaaatga 60
ctccctgcaa aacccaaccc atgctgctgg ctgtgggatt tttggtgtaa gcctatctat 120
gcactctatc agccagaatt tggcatttag ctcttagtta aatctagtaa aggacagtct 180
attgtttaaa gagaaggtgc atttgttcct caatcaagca agagcacctg tgttgtactg 240
ctttatatct catgtatatt tatagtaatg aaaagacttt ttaaattgta cacgtttcag 300

<210> 1792
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1792
gcagcagctc ccaggatgaa ctggttgcag tggctgctgc tgctgcgggg gcgctgagag 60
gacacgagct ctatgccttt ccggctgctc atcccgctcg gcctcctgtg tgcgctgctg 120
cctcagcacc atggtgcgcc aggtcccgac ggctccgcgc cagatcccgc ccactacagg 180
gagcgagtca aggccatgtt ctaccacgcc tacgacagct acctggagaa tgcctttccc 240
ttcgatgagc tgcgacctct cacctgtgac gggcacgaca cctggggcag tttttctctg 300

<210> 1793
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 1793
gtccattaca ccgccagcag caatgtcttc ctcggccatg gcagtgggtc acgggtgcag 60
cagtgcaatg tcttcctcag ccacggttgt gggtcatggg tgcagcagtg caagaccttc 120
ctcagccatg gcagtgggtc acaggtgtag cagtacaatg ccttccttgg ctatggcggt 180
gggtcacgga cgcagctgaa tcttgaacac acctgnncct ctgcctccac ctgactccgc 240
ggcggcaagg aatgaacaca gttntctttt taaccaaaat tttagatcat gatctt 296

<210> 1794
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1794
ggaatgtcag gcctctgagc ccaagccaag ccatcgcatc ccctgtgact tgcatgtata 60
cgctcagatg gcctgaagta actgaagaat cacaaaagaa gtgaaaaggc cctgccccgc 120
cttaactgat gacattccac cattgtgatt tgttcctgcc ccaccttaac tgagtgatta 180
accctgtgaa tttccttctc ctggctcaga agctccccca ctgagcacct tgtgacccc 240
gcccctgccc accagagaac aacccccttt gactaatttt ccattacctt cccaaatcct 300

<210> 1795
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1795
agttttcant tttggctggg cannatggtn agcgcctnca gtnccanntt cttgggaggg 60
taagcccngt tcaaggntgc agtnaantat nanggggccn ctgcattcca gcctgggtna 120
cagaatnaaa tcctggcnca aaaaaaaaaa gtagccaggc atggtggcgg gagcctgttg 180
tcccagctgt tccgtaggct gaggcacgag attcacttga acctgggagg tggaggttgc 240
tgtgagctga caccacgcca ctgcactcca gcctgggtga cagtgagac 289

<210> 1796
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1796
ctgaattgta tccttgaaaa atgctatgtt ggaatcttaa tccccaggac ctcagaatgt 60
gaccttactt attaaaaaca gggtctttac agaggtgttg cagttacagt aaggtcatta 120
gggtgggccc taatccagca tgactgatgt ccttaaaagg gggactttgg agagaaaaac 180
atgctcaagg aagaggatgt gaaggctacg tgaagagact ggagtgatgt gtctgctagc 240
taaagaacac caaaaatcgt cagccaccac ctgaagctgg aagaggaaag gaaagatctt 300

<210> 1797
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1797
cacagatcca ggaaaaatca aacgtattag aggaatggcg tactctgtac gtgtgtcacc 60
tcagatggcg aaccggattg tggattctgc aaggagcatc ctcaacaagt tcatacctga 120
tatctatatt tacacagatc acatgaaagg agtcaactct gggaagtctc cgggctttgg 180
gttgtcactg gttgctgaga ccaccagtgg caccttcctc agtgctgaac tggcctccaa 240
cccccagggc cagggagcag cagtacttcc agaggacctt ggcaggaact gtgcccggct 300

<210> 1798
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1798
gtgacaccct tgccctaaag caggagtccc ccctacctgg ggtccatgga ctccctgaaa 60
ttgtatgcaa aatgttgttt gtacatgtgt gtctgtatgt ctctgtgggg aggttttatg 120
gcttttgtca gattttcaag gccttaacaa agttaaagga ccactgccct gaggttactg 180
cactgaggcc aagttaggat ggcatcactc tgtggcagct ctccctggac ttgccctgcc 240
tggaacaggg tgatttgctg gaatggagtt accactgaga tgccaaaggt tgctgggtct 300

<210> 1799
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1799
ccgaaagtga cttagagagt gactcccagg acgaaagtga ggaggaggag gagggagacg 60
tagaaaagga aaagaaggcg caggaagcag aagcgcagag cgaggacgac gacgaggata 120
cagaagagga acaggggggaa gaaaaggaaa agggagcgca ggagaaaagg agggggaaga 180
gagtccgttt tgcagaagat gaagaaaaga gtgaaaattc ctcggaggac ggtgacataa 240
cggataagag tctttgtgga agtggtgaaa agtacatccc acctcatgtg aggcaagctg 300

<210> 1800
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1800
atctgttctt gcatgtaatc tacttttttcc atgagagccc ttaacatatt aatcatagtt 60
attctcagtt ccaaaatctg tgacacctag ctgagtctgg tctgatgctt gctttgtttt 120
ttctcttgcc ttaaaacata gtatgccatg tgatttttgt gtagaaatag gtgcattatt 180
tatcaggtaa gaggaactga gataagtaag cagaggtttt gtgttaatct ggctaggagt 240
tggactgcgt ttaaatttgt tgctataggt gttggaggct ataggtgttg ctataggtgt 300

<210> 1801
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G

<400> 1801
gttttgcccc tttttagcct cccagagctt cgaggactca attcgaaccc gaaatcctgc 60
cgtgggggag gggtggcagg gagacctgtg cccggggagg ttgntangcn nnaatctngg 120
acttnntncn gnccntncat gtanacagtg aaatgactgn anacntggtg acccgnngat 180
accggnctnc cnaggncatn atgaatngna tgcnctacnn gcanacggng gacatnnggt 240
ctgtgggntg tatnatggcg nanatganca caggnaanac gctg 284

<210> 1802
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1802

aatacacaat ttacatgtca gaggatggta gaggaattgt cacttatgct tcaatctgac 60
ttagtgaagc agtggggccg agaaagcaat catatacgca tttgtctcac atgagcagag 120
gaacagaggg atgactttaa gttctgtctg ttttttgtcc acaaggaatt ttcttgtggg 180
caaattgtga ggtctttgta gctatcttat tttaggaata aaatgggagg caggtttgct 240
tgatgtagtt cccagcttga cctccctttt ccttagtgat ttttggttcc caagatttat 300

<210> 1803
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1803
ctgacaagtc tgaaatacat attggagcct ggtagactga aaactcaagc aagagttgat 60
gttaaagtct tcagtctgaa atttgtaggg caggagatta ggctggaaac tcaggcagaa 120
tttctgtgtt acaatcttga ggcataattc ttctccaaaa aaatctccat ttttttctct 180
taaagccttg gatgagcctt ggatgattgg atgaggacta cccacattat ctagggtaat 240
ctcctttgct taaagtaaac tcactgtgtt aatcacatca acaaaatacc ttcacagcta 300

<210> 1804
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1804
gcaaagttcc attttgttga tctcgcagga tctgaaagac tgaagcgtac tggagctacg 60
ggcgagaggg caaaagaagg catttctatc aactgtggac ttttggcact tggcaatgta 120
ataagtgcct tgggagacaa gagcaagagg gccacacatg tcccctatag agattccaag 180
ctaacaagac tactacagga ttcgctcggg ggtaatagcc aaacaatcat gatagcatgt 240
gtcagccctt cagacagaga ctttatggaa acgttaaaca ccctgaaata cgccaatcga 300

<210> 1805
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1805
gcaaagttcc attttgttga tctcgcagga tctgaaagac tgaagcgtac tggagctaca 60
ggcgagaggg caaaagaagg catttctatc aactgtggac ttttggcact tggcaatgta 120
ataagtgcct tgggagacaa gagcaagagg gccacacatg tcccctatag agattccaag 180
ctaacaagac tactacagga ttcgctcggg ggtaatagcc aaacaatcat gatagcatgt 240
gtcagccctt cagacagaga ctttatggaa acgttaaaca ccctgaaata cgccaatcga 300

<210> 1806
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1806
agatgttctt atccccaaga gctgtataat tccagacaga ggaggcaggc agacacctct 60
atagaggact tagaaacgac tgttgtgaga cacattcagt gctcaggatg gcaagtgtag 120
tataccgtta gaaagaacat tcctttgggg tgtggcctag gaagttttcc agatttttca 180
ctagcgtaca tctaaggaaa accgtaaaca cagagctgcc ctttattcct cccacaggaa 240
gaaatgtaca tcttcatgga gtactgcgat gaggggactt tagaagaggt gtcaaggctg 300

<210> 1807
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1807
caaggatggc tcaacataca caaatcaata aatgtggtac atcacattca cagaatcaaa 60
aagaaaaacc acatgattat ttgaatagat gctgaaaaag catttgataa aattcaacat 120
ccgtttatga taaaaaccct catcaaagtg ggtatagaag gaacatacct ctagataata 180
aaggccatat atgacagact tacagctaac attgtactga gtggggaaaa attaaaggta 240
ttgtagggag accccatgaa actattgcta tggaataaaa gatgaaatgc tcctgattat 300

<210> 1808
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1808
tttttttttc gtaaagacag cgtcttgata ggttgcccag gctgctctgg gactcttggc 60
ctcaagcaat cttcctacct ccacctcccc agttgttgcg ccatggtgcc tagccaagat 120
gagactctca ttcaaacagt caaaaacccg acttaaagta gctcagacac acatagaatg 180
gattggctgc tgttgtggac tctccgaggg tggctccatc tgcaggcact gttggaacca 240
gtacccaagg atgatgtccc agcatctgtc tctccgggat ctcacctttg taccctgccc 300

<210> 1809
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1809
ctgagactca gtttttcttg gttcagggtc gtatttgaac agctctgttg tgaggaaggg 60
cttacaaaat tgcaatataa ttgctttgtt ttgtttttcc tttttgtgga gaacggggtc 120
tcgccgtatt gcccaggagt tcgagaccag cgtggacaac ataggtagac cccgtctcaa 180
caaaattttt tttaaaaagt agccaggcat gatggtgcac ctctgtagtc ctagctgctt 240
gaaaggctga gtctggagga tcacttggac ggacccacga gtttgaagct acagtgagct 300

<210> 1810
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1810
actcaaagac acgtacatgt tgtccagcac cgtctcctcc aaaatcttgc gggccattgc 60
cttaaaggaa ggttttcatt ttgaggaaac attaactggc tttaagtgga tgggaaacag 120
agccaaacag ctaatagacc aggggaaaac tgttttattt gcatttgaag aagctattgg 180
atacatgtgc tgccctttg ttctggacaa agatggagtc agtgccgctg tcataagtgc 240
agagttggct agcttcctag caaccaagaa tttgtctttg tctcagcaac taaaggccat 300

<210> 1811
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1811
gaacagaact aataggatag atgtatatat atgaaaggga gttcattaag gagaattgac 60
tcacacgatc acgaggtgaa gtcccacgat aggccatctg caagctgagg agcaaggaag 120
ccagtagtgg ctcagtttga gtcccacaac ctcaaaagta gggaagcaga cagtacaacc 180
ttcaatctgt ggctgaaggc ctgagagccc ttggtaaacc actggtgtaa gtccaagagt 240

ccaaaagctg aagaatccgg agtctgatgt tcaggggcag gaagcatcca gcacaggaga 300

<210> 1812
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1812
gggatcctct taatacctct ggtatctgat attcacacat cattttattt aatgattcta 60
gaggcttgga aggctgctaa aagtcattgt tttcgccttt gagaataatt accatcctgg 120
aatccccagt ttagcctgag accacctaac ttccccctac tcaggattca agccagttct 180
gtccaaggac aaacccttgt gtcgaggcct ctagaactat agtgagtcgt attacgtaga 240
tccagacatg ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa 300

<210> 1813
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1813
ccgcgaggtt ttgttcctgg aatggcattg gtaagaagag gattggattt agaagaaata 60
aaagcagttg ttcacacctg tgctgtgtgc tgaggccctg ccctccccat gatgtcattc 120
ctcagaacag cctaagttgg aggaattact aaactcatca tgacatgagg agctttcaga 180
aaaccaacgc caagatccct cccagcgtcc acatcgtcct ctggcaggag ctcctgcccc 240
tctgcctccc accctgcccc ctacaccccc tgcagaccca tctccctcca ccccctccca 300

<210> 1814
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1814
ccagaatggg tccatggctg ctgtgaatgg acacaccaac agcttttcac ccctggaaaa 60
caatgtgaag ccaaggaagc tgcgaaagga ttgaagtcta agaattgaaa ccctccanac 120
cangtnatnt nattgtaagc ncaatntgag ttgtgcccca atgctcgtta ncagctgctg 180
naacatannc ntggcctact atanatnttg attcatgttt gacttntttc ntcttatnnt 240
tcntttnagt atgttnnntn catattntat annattannt tntnnagcta tatatgatcc 300

<210> 1815
<211> 181
<212> DNA
<213> Homo sapiens

<400> 1815
aggcagtgac tgccttcggc ttttttttctg ctgactaaga tctcctatag agagctacaa 60
caatgcccaa aagaaaggct gcaggtcaag gtgatatgag gcaggagcca aagagaagat 120
ctgccaggtt gtctgctatg cttgtgccag ttacaccaga agtgaagcct aaaagaacat 180
c 181

<210> 1816
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1816
gctctttca agttcaagat aaagagaaat ttttcctcaa tcttgctaaa tgacagctac 60
tgccattcaa tggagatgtg gctaacatgt cccctgcatt acctctactg tatatgtaat 120
cacttcctat taacgtatta atctcctcca ataaaaactg cagcctctta aggtcttgga 180
ctgctctatt tcatgattgg ttagtagagc atttctttcc tataatccac actggccct 240
ctctgtgaag aatgccctgt atgcaataat ctgactgata tcacagcttt acattattct 300

<210> 1817
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1817
gttccctgct ctgatcattc acattctgtg attacacagg ctgtcatttc cacagagagc 60
catgaaacag tgaggagcca ttaggacatt cccatgggtg tagctcacag ttacaaagca 120
caactacacc ctggttctcc aggcctcctc tttcctggca ccgcagacca gatggggtcc 180
tggagaggct ctgcgtgccc ttctggagct tcccatcact cctttctgca gatgttcatc 240
ttaacagccc ctctgtgcca ctcagcccag tacccggctg cccggctgac tggagatggc 300

<210> 1818
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1818
ggggcccca cgcaaactca aattccctga gcctcaagag gtggaggaag agttgaagaa 60
gtacctgtcg tagggagatt tgggtagaag ccctcatgct gagctttgtg tccctggtga 120
tgttggaaca ttaatgatgg aacatggcca aacttcagtc atgatcctga aaccatggct 180
tcaggatcat gactgaagtc atggtttctt ccctgccaga aatgaaggtt cagttatgag 240
gcaaccctct agtaaggcat tgtaaaagtt actggatttg gtttaataaa agttgaaata 300

<210> 1819
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1819
gatcacttga gcccaggagt ttaagtctgt attactggaa aggggtccca atccagatcc 60
caaacaaggg ttcttagatc tcacacaaga aataattcag ggagcgtcta taaagtgaaa 120
gtaagtttac taagaaagta gaagaataaa aaatggctac tccacaggca gagcagctcc 180
ttggggctgc tggttgccca tttttatggt tatttcttga ttatgtgctg aagaaggggt 240
gggttattca tacctcccct ttttagatca ttatagggta acttcctggc attgccatgg 300

<210> 1820
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1820
attatggtgg aaggggaagc aaatgcccta cttcacatgg tggcaggaag gagaagaatg 60
agaaccaaat gagggagaag ccccttataa aaccatcaga tcttgtgaga acttactatc 120
atgagaatag catgggggaa actgccctgt gattcaatta cttcccacta ggtcactccc 180
accatacatg gagattatag gaactacaat ttaggatgag atttgggtgg gaacacagcc 240

aaaccatatc aagtattaac agcagaatta accaagctga ggaaagactc tcagagctca 300

<210> 1821
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1821
ctctcctgca tgggctttgc ctacaggggt atgatgatgt atcttttcat tcatcaccca 60
ggtggtatga ctctccactt atgcctgggc cttgatgaaa cagaaattgt gacatatccc 120
tggacttggc acttaggtga tgtaactcac ctttattgcc agggcatggt atattatgag 180
tattgtgaca aatctcttgg cctgacacct aggggatgag agactcctgc ctgggccctg 240
cccacaggat gctttgtggc ctgtcttctg gttttattac ctagaaagat gtgactttcc 300

<210> 1822
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1822
gtggcacaca cctgtggtcc tagctactca ggaggctaag gagggaggat cacttgagcc 60
caggaggtct aggctgcagt ttttattgtc tttaaattct cttcagataa tttacccccg 120
cattgcctac acagcacact gcagagtgct gggcaacttg gtaattaacc ctctaattgt 180
gtaaactgga agcttcgtga ggttatggct tcattaccat ggctacgtgg ctgtagccat 240
gagtgtgcac tccagtgtgg gtgatggagt gagactctgt ctcaaaaagg aagggaggga 300

<210> 1823
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1823
gtcggacgag cacgcgcgtg agatgtgcct gcggtttgca gacatggagt gcaagctcgg 60
ggagattgac cgcgcccggg ccatctacag cttctgctcc cagatctgtg acccccggac 120
gaccggcgcg ttctggcaga cgtggaagga ctttgaggtc cggcatggca atgaggacac 180
catcaaggaa atgctgcgta tccggcgcag cgtgcaggcc acgtacaaca cgcaggtcaa 240
cttcatggcc tcgcagatgc tcaaggtctc gggcagtgcc acgggcaccg tgtctgacct 300

<210> 1824
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1824
gcagtgactg ccttcggctt tttttctgct gactaagatc tcctatagag agctacaaca 60
atgcccaaaa gaaaggctgc aggtcaaggt gatatgaggc aggagccaaa gagaagatct 120
gccaggttgt ctgctatgct tgtgccagtt acaccagaag tgaagcctaa aagaacatca 180
agttcaagga aaatgaagac aaaaagtgat atgatggaag aaaacataga tacaagtgcc 240
caagcagttg ctgaaaccaa gcaagaagca gttgttgaag aagactacaa tgaaaatgct 300

<210> 1825
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1825

gcttcgtgtg ctactgcgaa ggggaggaaa gcggggaggg ggaccgcggc ggcttcaacc 60
tctacgtgac cgacgccgcg gagctttgga gcacctgctt cacgccggac agcctggcgg 120
ccctcgtggg taactgggcg ggtctgggag ccgccacacc cctccttgca gtgcagatcg 180
tctatggggc gacagacatc tgggattccc cagaaggctc tgacaccctc tgcccgccct 240
gtagctgtag tcctcccatt ggctagggct cttggggtcg ggcaggtttc gggtgccccc 300

<210> 1826
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1826
cacacacctg tggtcccagc tactcgggag gctgaggtgg gaaaatgctt gagcctggca 60
tgtctagcct tcagtgagcc atgactgtgc tactgcactc cagcctgggc aacagagcaa 120
gactctgtct gaaaagaaaa gaaaagaaaa gagaaaagga aaaagggcat ttaagacatc 180
tcacctactg aacatcctag cttcgcctag cctaccttaa atatgctcag aacagttaca 240
ctgcctacag tctgagaata tttacattaa atatgctcgg aacacttaca ttggcctaca 300

<210> 1827
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1827
cacacttgga gctcatacaa acttttccc aggctattgt ctgttcttca agcccattca 60
cctcccctaa aaatcatgta ttcttcctca aaaattgtct attatcttcc acttcccttt 120
cccccatgaa aagtgttgag gcttattctg agccaatatg agtgaccatg gcctgagaac 180
ccaatatgag tgaccatggc ctgagaacca tctcaagagc tccttcaaca gttgtgactg 240
agcttgtcag gttgcagttt ggttttatat attctaggga gacaggaatt ataggtaaaa 300

<210> 1828
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1828
ggggtatccc ttgagaccac cttgggacca gtgcttgcaa gcagcgagat atttccccag 60
caaaaccagg cagctgctaa ttaaatgctt agaaccaatg aaagctggct gtggtcctgc 120
ctgtgagctg cctactgctg ccttctgaat gcatatatct gctactgtag ccccgggttg 180
tcaaactatg gcctgtgggc caaatccagc cacagtcggt tctttaaagt tttatcgaaa 240
cacaagcaat ggaaatgccc atttccattg ttgtctccag ttgctctgct ccgagggcag 300

<210> 1829
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1829
gccgatacaa cctcgtgcgg ggccagggtc cagagaggct ggtgtctggc tccgacgact 60
tcaccttatt cctgtggtcc ccagcagagg acaaaaagcc tctcactcgg atgacaggac 120
accaagctct catcaaccag gtgctcttct ctcctgactc ccgcatcgtg gctagtgcct 180
cctttgacaa gtccatcaag ctgtgggatg gcaggacggg caagtacctg gcttccctac 240
gcggccacgt ggctgccgtg taccagattg cgtggtcagc tgacagtcgg ctcctggtca 300

<210> 1830
<211> 158

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(158)
<223> n = A,T,C or G

<400> 1830
gatctatctc ttctccctgc ccattaagga atcagagatc attgatttct tcctgggggc 60
ctctctcaag gatgaggttt tgaagattat gccagtgcag aanctnaccc tattctntta 120
gntcnctagn cnnagantct ttctttangg attctnta 158

<210> 1831
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1831
atagagagga acaaagataa gaatgacagc agatgtgtgg tcagaaatta ttcaaggcag 60
aagacagtag aactgaaaaa gaaagtaggt caatctagaa ttctataccc aacacaaata 120
tccttcaaaa atgaaggtga aataaacact ttttgatgga caaactgaag ttgagagaat 180
tcgtaaccag cagacctgta gtacaaaaaa tgttgaggca agtttttag gcagaagaaa 240
aatgatacta gatagaaatt tgggctgcac aaaggagtga agaggcttcc aaatggtaaa 300

<210> 1832
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 1832
cccagctctt tgggaagctg aggtgggagg atcactagat cccaggggtt ggagacttgc 60
ctgggcaaca tagtgcaacc tcgtctctaa aaatatatat tttatagatt agcccggcat 120
gggtggtgca cgtctatagt cccagctact ccagaggctg aggtgggaag atcccttaag 180
cctaggaggc gaggtatcga taatctatna nagctccgtt acactccaac ntgggcttnn 240
gaggaangat cacgtaggnt ctaananatg anggaggcca ttt 283

<210> 1833
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1833
cctgccccta ggtgggggct gccttcagct ccctgctgcg tgtgataact tgggtgtggc 60
cctcacagct gtgcagaagc tattcccaga gggttctggc cccaggtaaa cagattctgc 120
tctgggctcg ccttgcctcc atcccacagc cctgtgtgct gtctgtggca cagcctagag 180
cagcactgcc tcgtggccct ggcccttatg cggctggagc tgatcctgaa gtccagtgtc 240
ccagcggtca tggctggcat catcaccatc tacaacctgg tgatggaagt ccttatcccc 300

<210> 1834
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1834
cccaaaccta atttaggagt aaatttttttg tagcagatag ccagatttca gccaatcaca 60
ggcttccagc taacaagact atgcccaaat aaggcaaatg cctcatcaca tgatgctcaa 120
ataaggcagc cacctaggcg aggccaatca ggtaactttt ctactttgct taattgttca 180
gcctgtacaa atttgctgct tatgactgct gagcagagct gtctaaacct cttctggttt 240
ggagtgctgc cttatatatg aattgttctt tggtcacata aaattggtta aatttaactt 300

<210> 1835
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1835
tggctggagg tgagatatgc tggcagcaat actgctctgt tactccttgc tacactgaga 60
tgtttgggta aagagaaaca taaatctagc ctacgtgcac atctgggcac agtacctttc 120
cttgaactta ttcgtgatac agattccttt gctcacatgt ttccctgctg accttcttcc 180
cacctgttgc cctgctacac tccccctcgct aagacagtaa aaataatgat caataaatac 240
tgagggaact cagaggccag cgccggtgcg ggtcctccac atgctgagcg ccggtccggg 300

<210> 1836
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1836
ggccagtagg tgctaaggtg acaccacccc ttcctccctc tccagaccca tcccaccacc 60
gtgatttgcc catccccagc agcctcatca ctgaccacct gtttttactt gcaggaccca 120
ttccaacaat ctcgtaaaac atggtggatt actatgaagt tctaggcgtg cagagacatg 180
cctcacccga ggatattaaa aaggcgtaag tagttttatt tctgtggtaa tgcattttca 240
cagtggtaca ttggtaattg agtagtataa cttcttctat tgcctatgaa aatggctttt 300

<210> 1837
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1837
gagactccag gctgagctgg ctgaccgacc caatcccccct acccgccctc tgcccgctga 60
cccggtggtg agaagcccga aggtaacggt ggggggagag aagggcacgg cctctccccc 120
cacctagggc tgtggtgctg gtagccatga cggtggtggc cgtggcgaga tgccccctca 180
gtgcatgagg gcacatatcc cggtggtgcc tttaatggtg acagtctcag gggccagcca 240
agcccccacc cccaaggaag ccactgtctg ccgaccccca gggccggtgc ccatcgggtg 300

<210> 1838
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1838
aaggcttaga tcattgactt cagatttttt gtcttttcta acaagtgttc aagactataa 60
tataaatttc cctctaagca ttgtttagcc acatttcaca aatttggaaa tgtttattca 120
ttttcatctt cattcagttg aaaatatttt ctaatttccc ttttaatttc ttcttttact 180
cacttattat ttggaaatgt gttatttcat ttccaaatat ttggggattt tcaaatatct 240

cctgttaaca atttctaaat tagttgtagt cagagaacat attctgtgat ttcaatgctg 300

<210> 1839
<211> 233
<212> DNA
<213> Homo sapiens

<400> 1839
ggaacgtcag gcacagggat gatgaaaggg gaacaataag tgttaattac ctacaggttg 60
tgttggctcc aggtttttgg cattgtgcct agactgaata aaagcaagca gctccagctt 120
cttggggctg ctttctggcc actagagcca ggcagtcacc tagttgctgt tacactgaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 233

<210> 1840
<211> 212
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G

<400> 1840
ggaacgtcag gcacagggat gatgaaaggg gaacaataag tgttaattac ctacaggttg 60
tgttggctcc aggtttttgg cattgtgcct agactgaata aaagcaagca gctccagctt 120
cttggggctg ctttctggcc actagagcca ggcagtcacc tagttgctgt tacactgaaa 180
aaaaaaaaaa aaaaaanaaa anaanaaaaa aa 212

<210> 1841
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1841
ggaacgtcag gcacagggat gatgaaaggg gaacaataag tgttaattac ctacaggttg 60
tgttggctcc aggtttttgg cattgtgcct agactgaata aaagcaagca gctccagctt 120
cttggggctg ctttctggcc actagagcca ggcagtcacc tagttgctgt tacactgaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

<210> 1842
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1842
cccaagcaag gttccttgga agaagatgtc tgcagaggag ctggagaatc agtactgtcc 60
cagccgatgg gttgtccgac tgggagcaga ggaagccttg aggacctact cacagatagg 120
aattgaagat tatcttgaaa acaatcttcc agtagttctg acgatacttg gagcctggtc 180
cacgtgcatc ccaccttggg aagcctctcc aaagagcttt cggagctgac actgacagct 240
tcagtttccc ccagcaccca ggagagcctt gctgtgtctg tctgcccggc aagagtccat 300

<210> 1843
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1843
gctctcggag gctgtcttct gtcgccaagg gtcccggacc gagtacacag tggcagctgg 60
cttagttggt ggacggcctg gggtagggga gggtggcagg tataagactt ctgggggcac 120
cccaagaccc cagacaccca agtggcatct tgggggtggg tgggcagagg acggggtaat 180
gtgaggacga agcgggcacg gagccagatg gccagtctcc aggcctggtc cacggactgg 240
cagggacccc aggcacaaga gctgccaccc ctctgcccgg tttggaaaaa aacaataaag 300

<210> 1844
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1844
gagaaacaca gtcaagtggc gcagtactat gaagtattcc ttcgacagtc tccattggag 60
ccctgccttg tatttcatga aggtggatac tggcgtgagc tcacagtccg caccaatagc 120
caagggcaca caatggctat catcactttc catccccaga aattaagtca ggaggagctc 180
catgttcaga aggagattgt aaaggaattt ttcatcagag gtcctggagc agcctgtggc 240
ttgacctcac tttacttcca ggaaagtacc atgacccgtt gcagccatca gcagtctccc 300

<210> 1845
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1845
ggaacatcca gtgcctgcag gacgtggagc gctgcctccg ggacacgggt gtgcagggcg 60
tcatgagcgc agagggcaac ctgcacaacc ccgccctgtt cgagggccgg agccctgccg 120
tgtgggagct ggccgaggag tatctggaca tcgtgcggga gcacccctgc cccctgtcct 180
acgtccgggc ccacctcttc aagctgtggc accacacgct gcaggtgcac caggagctgc 240
gagaggagct ggccaaggtg aagaccctgg agggcatcgc tgctgtgagc caggagctga 300

<210> 1846
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1846
aaaattaaaa acacacaggc ccaacaaact caacaaacgc taagcacaag aaacatgtag 60
gaaactatac caaggagtat tataatcaaa ttactcaaaa ccagtgataa ggtgaaaacc 120
ttaaaagcag ccagaggaaa aaggacatgc aagaagaata aagacaaagg taatggcaga 180
ctttttgcct gaaagaatgc aagtgagaag acaatatatt aacatcttta aactaatgaa 240
agaagancna ctgtcaacct agaantctgt atgaacgtng nccaaaggnn ttcaaannnc 300

<210> 1847
<211> 299
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 1847
agacttttga ggaaattctt tcttgacaaa gacagagatc aaaccaaaaa acaaacaaaa 60
aaacacacac agaaaaatgt gagtagggaa gaaataggaa aaaggtaaga agcagaaatt 120
ttttttttt tnaancggag tttcgntntt gtngcccagg ntgnagngca nnggcncagt 180
ctnggttnac canancntcc accacccagg ttnaagcant tntcnngcnt nagcctcctg 240
agtanctggn attntnggcn cccaccacca cnccnggtta anttngnntt tttagtaaa 299

<210> 1848
<211> 165
<212> DNA
<213> Homo sapiens

<400> 1848
gggcggcttt ggcctcacgc ttcggggaga ctcgcctgtc ctcatcgctg ccgtcattcc 60
agggagccag gccgcggcgg ctggcctgaa ggagggcgac tacattgtgt cagtgaatgg 120
gcagccatgc aggtggtgga gacacgcgga ggtggtgacg gagct 165

<210> 1849
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

<400> 1849
cagcaatgtt ttgtggcttt tattgtacaa gcttttcacc tccttggtta agttagttct 60
taagtgtctt attcttttac gtgctattat aaatggaatt attttcataa tttccttttc 120
atggtgttaa ncattatncg nactcacntg cnactnaata antgcacntt gacnnttcca 180
gnnacatgaa acnattnann ntnnnantcn tacannaagn acnancatcn attngcntnt 240
tnctnatnng annntnntgn atntanaann ccg 273

<210> 1850
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1850
gccatcctgt ttacagcgag gcaagatgaa tcattatgtc tgtgcatttt gttttactta 60
tctgtgtata tagtgtacat aaaggacaga cgagtcctaa ttgacaacat ctagtctttc 120
tggatgttaa agaggttgcc agtgtatgac aaaagtagag ttagtaaact aatatatttt 180
gtacattttg ttttacaagt cctaggaaag attgtcttct gaaaatttga tgtcttctgg 240
gttgatggag atggggaagg gttctaggcc agaatgttca catttggaag actctttcaa 300

<210> 1851
<211> 206
<212> DNA
<213> Homo sapiens

<400> 1851

ctgaaacagg gtcgggatgc cgatgccggc ttggagttag agatgagtca ccgctgagag 60
cagctgcagt agctgagcag tggcagcaga gaggcagacg tgagctgagg gcgcagaggc 120
aggcagcatc tctgagggtc cccaaggagc atggctggga gccgtgaggt ggtggccatg 180
gactgcgaga tggtggggct ggggcc 206

<210> 1852
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

<400> 1852
ttttattttg tcacccaggc tgaaatacag tggcaaaatt atacctcaat gcagcctcaa 60
ccccccctggg ctcaagggat cctccaaatt cagcctcctg agtagctggg agtataggct 120
tgcaccacca tgcccagcta attttttttt tttnganctt tngnattttc agtagngaca 180
nagtttcccc atgtngctna ggctggngta aaactccngg gctnaagcaa tcntcccacc 240
tgggccttcc aaagggctgg nattacaagg ggnanccant gtacccagca aaata 295

<210> 1853
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1853
aattacaggc ttgagccact gcaccaggcc ctaagagctc taaactttct tatcacacag 60
tgaattaaaa tattttggat cttaactatc ccatattaag cgatcctttc ctcaaatgaa 120
agaaaatact taattagaac atatatgttt aaactgatac agtaagttgt ttgtaagcct 180
ctagaactat agtgagtcgt attacgtaga tccagacatg ataagataca ttgatgagtt 240
tggacaaacc acaactagaa tgcaggtgaa gaaaatgctt tatttgtgaa atttgtgatg 300

<210> 1854
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 1854
gtggtacctt ggctttaggt tttcattcgc acggaacacc ttttggcatg cttaacttcc 60
tggtaacacc ttcacctgca ttggttttct tttttttttt tctttctttt tttttttnnn 120
ngtggnggtt ggttttaaaa ccccnnnanc nnnaaaaccn tttttnnaaa nccntngaaa 180
nncnancnng gcnttttttc ccccnttnnn nccaanggng gnnttaaang nangnnnggc 240
ngggggaann tttngcaacc anggggnntg ggggnctaan cggtcaaaa 289

<210> 1855
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1855
ggttaatttt tgtttgaaat catgcccaga ttcgacgtca agcaattaaa gaactgcctc 60
aatttgccac tggagaaaat cttcctcgag tggcagatat actaacgcaa cttttgcaga 120
caggtaaggg attttattat taccttttc tctaaatata tatcttcttt ctgaaatgtt 180
gactctgttt ttaggtttta aatggggtgc aggagagctg gaggtcctac ctctgataga 240
gattaaattt cctactttca ttcagtagtt aaagtgtaat gatttctggt tatctaattc 300

<210> 1856
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1856
aatgcctcta tgtaggtgaa gtgttctctc tgcatgcaac agtaaaaatt aatataatat 60
tttccccaca aaagaaacac ttaacagagg caagtgcaat ttataaattt atatctaaag 120
gggaatcatg attataagtc cttcagccct tggactctaa attgagggga ttaaaaagaa 180
tttaaaataa ttttgaacga atttattttc ccctcagttt ttgagggcat taaaaaggca 240
ttaaatcaag acaaatcatg tgcttgagaa aaataaaatt aatgaaaaca cagcacttat 300

<210> 1857
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1857
tattggtttg tagaaatgct actgattttt gtacgttaat ttttgtatcc tgaaacttta 60
ctaacgtcat ttatcaggtc ttttggaggg attgttaggg tttttttagg tttagaatca 120
tattgtgagt gaacagagat aatttgactt cctcttttc tatttagatg ccttttgttt 180
ctttttcttg cccgattgct ctgggtagga cttcagtact atgttgaata gaggtggtga 240
gagtgggcat ccttgtcttg ttcttagggg ggatgctttc acctttgccc attcagtatg 300

<210> 1858
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1858
ggcagaagag cagacatggc agatgctttt ctatcttggt gttgatgctt tacgcaagag 60
ttttgagatg accgtggaaa aagtacaggg tattagcaga ttggaacaac tttgtgagga 120
attttcagaa gaggaacgag taagagaact caagcaagaa aagaaacgcc aaaaacggaa 180
gaatagacga aaaaataagt gtgtgtgtga tattcctact cccttacaaa cagcagatga 240
aaaggaagta agccaagaga aggaaacaga cttcatagaa aatagcagct gcaaagcctg 300

<210> 1859
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1859
gcataacgaa cctaaccctc agaggtttac caagattcaa aacacgaagc tgaccatgaa 60
gcgggacggc attgggtcag tgcggtacca ggtcttggag gtgtctcggc aaccactctt 120
caccaatatc acagtggaca ttgggcggac tccgtcgtgg ccccctcggg gctgacacta 180
atggacagag gctctcggtg ccgaaaattg cctgccagag gactgaccac agcctggctg 240
gcagctgctc tgtggaggac ctccaggact gagactgggc tctgttttcc aagggtcttc 300

<210> 1860

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1860
cctgtttcca ttcaacaaga gcactacatt catttagcta aacggattcc aaagagtaga 60
attgcattga ccacgactaa tttcaaaatg ctttttatta ttattatttt ttagacagtc 120
tcactttgtc gcccaggccg gagtgcagtg gtgcgatctc agatcagtgt accatttgcc 180
tcccgggctc aagcgattct cctgcctcag cctcccaagt agctgggatt acaggcacct 240
gccaccatgc ccggctaatt tttgtaattt tagtagagac agggtttcac catgttgccc 300

<210> 1861
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1861
gggaccactg gcctgcctga cctcacccca ctaatatttt ttatttttg cagagacagg 60
atatggggaa aagaaatcag attgttactg tgtctatgta gaaaaggaag ccataagaaa 120
ctccattttg atctgtatta agaaaaattg ttctgctttg agatgctgtt aatctgtaac 180
tttagcccca accctgtgct cacagaaacg tactgtattg aatcaaggtt taatggattt 240
agggctgtgc agcatgtgcc ttgttaacaa tatgtttgca ggcagtatgc ttggtaaaag 300

<210> 1862
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1862
gctgggtgtg gtggcacacg cttataatcc cagctactcg ggaggctaag gcaggagaat 60
tgtttgaatc tgggaggcag aggttgcagt gggccgagat cgcaccattg cgctccggcc 120
tgcgcaacaa gagcgaaact ctgtctccaa aaaagagatg atctcactgt gtcacccagg 180
ctgacgtgta gaggcatgat catagctcac tgtatcctca aactcctcct gggttcaagt 240
gattgtcctg ccttgacctg ctgagtagcc accaccatgc ctggctcaaa atggatttga 300

<210> 1863
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1863
agaagcctta cgtgtgtgct gagtgtggga aggcctttag caacaggtcc aatttgaata 60
aacatcagac aacacacact ggagacaaac cctacaagtg tggcatctgt gggaaaggct 120
tcgttcagaa atcagtgttc agtgttcatc agagcagcca cgcttgagag aaacagtgtg 180
agaaaacccc cctgagggtt gggtctgatt gtacactgtt gcacgcatgc agcagaaaaa 240
tatgtatatt attgtaaata gaaatgacca catcagaatg tcacacatgc tgttctggag 300

<210> 1864
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1864
cccaaaacca tttattgaag agacaaccct ttcctcattg tttgcttttg gcattcttgt 60
caaagatcag ttgtccataa atatgtggct atatttctgg gatctctctt ttgttccctt 120
ggtctacatg tctgttttta atgggagtat catactgttt ctattactgt aattttgatg 180

tatattttga aatcaaatag tatgatgctg ctagctccat tctttatgct tgagagtgct 240
ttggctattt agggtctttt ctagttccat acaaatttta ggtttatttt tatgcttctg 300

<210> 1865
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1865
cagatggttt ttaacgccta ccaggctggg gtaggagcac tcaaactctc catgaaggat 60
gtcacagtgg agaaggcaga gagcctcgtg gatcagatcc aagagctctg tgacacccag 120
gatgaagttt ctcagactct ggctggtggg gtaacaaatg gcttagattt tgacagtgaa 180
gaactggaga aggaattgga catcctcctt caggatacca ccaaagaacc tttggatctg 240
cctgacaacc cccgcaatag gcattttacc aacagcgtgc ctaaccctag gatctcagat 300

<210> 1866
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1866
agacatcaaa ggttcttgct tccaaagtgg gaataaacgg aaccatgaac cttttattgc 60
tccagaaaga tttggaaaca gtagtgtggg ctttggcagt aattcccatt cccaagcacc 120
agagaaagtg acgcttcttg tagatggcac acgttttgtt gtgaatccac agattttcac 180
tgctcatccg gataccatgc tgggaaggat gtttggacca ggaagagagt acaacttcac 240
tcggcccaat gagaagggag agtatgagat tgctgaaggc atcagtgcaa ctgtatttcg 300

<210> 1867
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1867
agcgtgtgca gcggcagctg ctggtgaggc ccaaggggct ctgtctccag ggagcctgcc 60
tcgcttttgg agcagacagg cttggggagg gcagtgatgt gagccagccc cacccagcac 120
ccctcttgcc cttcctgttt tcctagggga cgggccgggc catatgggga ggaagggact 180
agaccaatgc tgcttaatgt tacagacgct gagcagcgag ctgtcccagg cccgagatga 240
gaataagagg acccacaatg acatcatcca caacgagaac atgaggcaag gccgggacaa 300

<210> 1868
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1868
ggatgacaga gtgagattct gtcttaaaca aaaaacccca aaagaccatc cagagtgctt 60
gtctcggtag catatatact aaaattggaa ggatatggag aagattagta tggtccctgc 120
gcaaggatga cacgcaaatt tgtgaattgt ttcataatta ctatttaaaa aaaaaaacct 180
ctgtaggtat ttctccaaag aagctaagca gatgcccaat aaacatatgg aaagatgttc 240
agcatcacta ataattaggg aaatgcaaat caaaaccaca gtgagatgtt attttgcgac 300

<210> 1869
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 1869
gaacaaacaa aaaatgcaca gttcataata atttctcttc gaaataatat gtttgagatt 60
tcggatagac ttattggaat ttacaagaca tacaacataa caaaaagtgt tgctgtaaat 120
ccaaaagaaa ttgcatctaa gggactttga tggnccttat nctattgatg atncttacng 180
acgatgatgg ctncnnncaga tccattcatg anntgatnct aanaaatatt acttggtatt 240
canancgagt tntaactgaa atctccttgn ggagctcctg atnctggggg 290

<210> 1870
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1870
ctggggtggg atgccttact ttgcacttaa tttaataagg gcattctcgg aggagtagac 60
gtttaatacg aagtggcggc atagccctgc cgagatgtcg gtgatggcct ggatgctgta 120
accacaacct gtggctaaaa attttatttt ctatccttta cccgtcatta tcattagttg 180
ctatgattct ttctgcattt tcggttaact atcatttcca aagacttgtc attcagtaat 240
attagcagat agctgcttcg ataaaggaat ttggagttta aaaatcaact tgtgaaaaca 300

<210> 1871
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1871
acaccctgga ctcctgcagg ggaggacaca cggaggtgga caactgcaga tacacttact 60
cggagtggca cagctttact cagccccgtc ttggtgaagt gagttttcct aagtggncta 120
caaatctatt ntaattntct ttagacttta tanntaacta actggattct gactataant 180
tncaattanc tatgantcta ctacttctac taatagaaag ctattattnt tcctcantnn 240
taatntagtt atgttcngat ttanntggan atttacttcc cctcctattt ttttaattga 300

<210> 1872
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1872
gtttgatcat ttatgtactt gggtaaggtg gtaactgcta gatctctcca tttgaagttg 60
cttttaaaaa atttgttatt tttgctactc gggaggctga ggcgggagaa tcgcttgaac 120
ccaggaggct gaggttgtgg tgggccgaga ttatgccatt ggactccagc ctgggcaaca 180
agagccaaac tccgtctcaa aataaacaaa caaactaact aaagaagcct aacagtaaat 240
ggcagctggt gtgtatgtga ccctgttgct ctgcttcctc cagggacacg gccaacacgg 300

<210> 1873
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1873
acgggagcta gtgacggcat ttctacgatc ctgaagatcc tcgtctccgg gggcggcaag 60
tcacggacag gtgtgatgat ccccatccca caatatcccc tctattcagc tgtcatctct 120
gagctcgacg ccatccaggt gaattactac ctggacgagg agaactgctg ggcgctgaat 180
gtgaatgagc tccggcgggc ggtgcaggag gccaaagacc actgtgatcc taaggtgctc 240
tgcataatca accctgggaa ccccacaggc caggtacaaa gcagaaagtg catagaagat 300

<210> 1874
<211> 156
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(156)
<223> n = A,T,C or G

<400> 1874
agctcgagtc aacgtccctg tcattggtgg ccatgctggg aagaccatca tccccctgat 60
ctctcagtgc acccccaagg tggactttcc ccaggaccag ctgacagcac tcactgggcg 120
ggatccagga ggacttaacn angntgtgna ggatat 156

<210> 1875
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1875
gttttccttt atatgggagt ttcctcatta aaaggaatcc agttatttga ccgtataaaa 60
ttatttggaa tgcctgctaa gcatcagcct gatttgatat acctccgtta tgtgccgctc 120
tggaaggtcc atattttcac agtcattcag cttacttgtt tggtcctttt atgggtgata 180
aaagtttcag ctgctgcagt ggtttttccc atgatggttc ttgcattagt gtttgtgcgc 240
aaactcatgg acctgtgttt cacgaagaga gaacttagtt ggcttgatga tcttatgcca 300

<210> 1876
<211> 157
<212> DNA
<213> Homo sapiens

<400> 1876
agcggccatg gccaacttgg aggtgaagaa agcattcatg ggaccactga agaaagaccg 60
aattgcaaag gaagaaggag cttaatgcca ggaacagatt ttgcagttgg tggggtctca 120
ataaaagtta ttttccactg aaaaaaaaaa aaaaaaa 157

<210> 1877
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1877
aggacccagg caaccctcaa caacctgcct gcgaagaaag ctcccttgga aggggctgcg 60
ccagcacatt tccctgcccc taatcacaaa tgccctgggc ccctccaccg gagattcgcg 120
ttcagtaggt cagtgacggg gccgggaatc tgccatttga aacgaatact cccagttatt 180
tgtttcatca agcagataga aaaacatgga ttccttagaa aggttctgca actgaccatt 240

cattaactcc tgagggcctc atgtcaggtt ccgtgcatgc actgagcacc tactgtgtgc 300

<210> 1878
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1878
gaaggggttt aaaaaggaaa aggtgtggaa gagatgcagg agtggtgcag gtctgaatgt 60
cttgttgtga tagttatatt gagtaattgc ccatctggag gtatggtttg tgtcatcttg 120
acttcagctg ggtaatgcta ggctaactgt tcgaaactcc ccccatgcaa gaggagtctg 180
caactccatc tctgcttggt ttgtttcaaa actggcccct gaaatttcta agcaagtacg 240
taattagata agtgaacact gttcatggac atgcctggtg ggaaagggag aaactaaggg 300

<210> 1879
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1879
gccaattcca ggccctcctc cacgcagtgt gccaccaaca gacttctctc aactgattga 60
tagtccagag tttgtaccag gccaagcctt ttgctcacat acagagtctg ccccaaattc 120
tccaagaatt ggaagcccat tgagcccaaa gaaaaacagt gaaacaagta ttcttcaagc 180
aatgtctaga ggtttgtcta ccagttatgc ctgacttgga ctcagaacct tggatagaag 240
ttaaaaaaag acatcatcca gccccagtga aattgaggga atcagtgtct gtccctgaag 300

<210> 1880
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1880
agacagagta ctgattggag gggatgaaac tccagagggc cagagagctg tgcaggccct 60
gtgtgctgta tatgagcact gggttcccag agaaaagatc ctcaccacta atacttggtc 120
ttcagagctt tccaaactgg cagcaaatgc ttttcttgcc cagagaataa gcagcattaa 180
ctccataagt gctctgtgtg aagcaacagg agctgatgta gaagaggtag caacagcgat 240
tggaatggac cagagaattg gaaacaagtt tctaaaagcc agtgttgggt ttggtgggag 300

<210> 1881
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1881
gtggagccca agagctctgg gccgccagga agcctccaat gctctggcca cctggacccg 60
ccttttaaat gcgtattctg tctctttcta actcctttgt ctccgcagga ctcggggtat 120
ctgctgggtg gtgtggggct ggtttcccca atatctaaga tcagtgcttg gggcattttg 180
cagatcctgc actggatgga tcagcggaca acacacagac cggtaatctg ggtcaatcag 240
ttctgccatc ccacccagaa cagaaaacag catgaaaaac tcactttaac cccctatgaa 300

<210> 1882
<211> 149
<212> DNA
<213> Homo sapiens

<400> 1882

gaggaagcat ataccacaga acattggctg gtcaggatat acaaggtaaa ggacctttat 60
aatcgaggct tgtcaaggac ataaatgtca cgtccagctc tgatatgctt cgcactgagc 120
acatcacatt taggacgttg aagattttt 149

<210> 1883
<211> 206
<212> DNA
<213> Homo sapiens

<400> 1883
gtgcaccgga gggtgaagac agccctcgcg aggaaggagg aggccgtgag cagcctccgg 60
acacaacatg aggctgcggt gaagcgggcc gaccacctgg aggagctgct ggagcagcac 120
aggaggccca cgccaagtac caagtgacca gggatgccgg gaacactgtc gaagaacgga 180
aggcagagga cagaggctgg acgtgg 206

<210> 1884
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1884
gacttctgaa gaacatgaag caagcagaag ggtgaaagcg gagctgctgg ttcagatgga 60
tggtgttgga ggtacttctg aaaatgatga cccttccaaa atggttatgg ttctggcagc 120
tactaatttt ccctgggata tagatgaggc tttaagacga cgccttgaga aacgaatcta 180
tattcctttg ccgtcagcaa aaggcaggga ggagctatta cgaataagtc tacgtgagtt 240
ggaattggct gatgatgttg accttgcaag tatagcagaa aacatggaag gttattcagg 300

<210> 1885
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1885
tgcagtagca tccatgagca tcagcagaga tgcagtgggg gtctgtttac ttggtgataa 60
gttatatgct gttggggggt atgatggaca ggcatacctt aatactgtgg aggcttatga 120
tccccagaca aatgagtgga cccaggtatt ttcacatact tttgaggaca gcaaagatca 180
cctggtggcc atcaagcaga ccatctggag gcaaaactcc ttatctgagg aattcagaag 240
tcattagact gccctattat ctaaagccgg catcttgtac taggcttctt taccaaaaat 300

<210> 1886
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1886
aataaaaggt tccaatttga gtttcatctg ctcagctgcc agcagcagtg attccccaat 60
gacttttgct tggaaaaaag acaatgaact actgcatgat gctgaaatgg aaaattatgc 120
acacctccgg gcccaaggtg gcgaggtgat ggagtatacc accatccttc ggctgcgcga 180
ggtggaattt gccagtgagg ggaaatatca gtgtgtcatc tccaatcact ttggttcatc 240
ctactctgtc aaagccaagc ttacagtaaa tagtatgtga tctgactttt cctttagcat 300

<210> 1887
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1887
gctgactact tggaagcttg tgtagtatct gtgttgcaga tccatgtgac ccagcccct 60
ggggatatcc tggtgttcct gacaggacag gaggagattg aggctgcctg tgagatgctc 120
caggatcgct gccgccgcct gggctccaaa atccgggagc tcctggtgct gcccatttat 180
gccaatctgc cctctgacat gcaggcccgt atcttccagc ccacaccacc tggggcacga 240
aaggtggttg tggcaacgaa cattgctgag acatcactca ccattgaggg catcatttat 300

<210> 1888
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1888
agtaattttt ttagtttgtt tttgagacag ctctgtcacc caggctgagt acagtggcat 60
gatcatggct cacagcagcc tctcaacctc cctgggctca ggtgatcctc ccacctcagc 120
ctcctgagta gctggtacca caggtgtgta cctggttaat tttttggtgt ttcttataga 180
ggcaggatct ccttatgtta cccacaccgg tctcaaactt ctggacttta ggaatcctcc 240
tgccccggcc tctcaaaggg ctggacaggt gtgagccacc aggcctggcc ccaagcttgt 300

<210> 1889
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1889
ccaaacttgg aggtggccgc ttccagacca tggaggagaa gaaagcattc atgggaccac 60
tgaagaaaga ccgaattgca aaggaagaag gagcttaatg ccaggaacag attttgcagt 120
tggtggggtc tcaataaaag tttgtttcag tggaaaataa cttttattga gacaaaaaaa 180
aaaaaaaaaa 190

<210> 1890
<211> 187
<212> DNA
<213> Homo sapiens

<400> 1890
cagcctgcgg ccaggctttt tatttaatgt aaatagtttt tgtttgcctc cgtggtttgg 60
tcaccgtgtg catcgcaccg tgctgtaaat gtggcagtcg ctgtgttggg agagccggcc 120
acgcccttgg ctttagagct gtgttgaaat ccattttggt gatggctttt aacccaaact 180
cattgca 187

<210> 1891
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1891
agccaatgtg cttgcaagtg tacagatctg tgtagaggaa tgtgtgtata tttacctctt 60
cgtttgctca aacatgagtg ggtatttttt tgtttggttt ttttgttgtt gttgtttttg 120
aggcgcgtct caccctgttg cccaggctgg agtgcaatgg cgcgttctct gctcactaca 180
gcacccgctt cccaggttga agtgattctc ttgcctcagc ctcccgagta gctgggatta 240
caggtgccca ccaccgcgcc cagctaattt tttaattttt agtggagaca gggttttacc 300

<210> 1892
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1892
ggaaccccca ccattaagct aaagtaaaac ccttttgagg gaagagggag actggggaga 60
agggaaaaga gagaaggcag ggagagtagg gagagaaaac cttccagcag cccagtaaac 120
tgcgggcgaa gagatctacc cgtctccctc cctcccacag ttaccattgg ccttgtcatc 180
gcaagcattt gacaaagact tgcttgtctt gggcctgtca cctcctgaaa ggctgcttta 240
gctgtggatg cccttgatta agggagagag cgcctaggag ctgcctgccc cagctggggt 300

<210> 1893
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1893
agaggccaga tcacacagga atgactggga ttttaggcct ggaatgtacc tttaaaatta 60
tcttattaca caccatcctt cattttctc attttcctct tttgggattc atatattaag 120
tattagggca ttaaaacaca actgtatata taaagaaaaa tataaagtaa ccacacatgc 180
tcagggaaag acacaggctc agaaaatgcc tgagaagaac ttagtttcac accccaggct 240
gatcctaagc accgagacag cctacaacaa tccaaaaaac aaaaacaata aataaaaagt 300

<210> 1894
<211> 174
<212> DNA
<213> Homo sapiens

<400> 1894
ttatttgtaa ccattataag ctgcaataaa caagttaaca acaacaattg cattcatttt 60
atgtttcagg ttcaggggga ggtgtgggag gtttttttaat tcgcggccgc ggcgccaatg 120
cattgggccc ggtacccagc ttttgttccg tttagtgaga gaggtcagaa attg 174

<210> 1895
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1895
aaatacctca ggaaaaacga ggaggtgaag tattggattc ttctcatgat gacataaaac 60
ttgaaaaaag taatattttg ctgcttggac caactgggtc aggtaaaact ctgctggcac 120
aaaccctagc taaatgcctt gatgtccctt ttgctatctg tgactgtaca actttgactc 180
aggctggata tgtaggcgaa gatattgaat ctgtgattgc aaaactactc caagatgcca 240
attataatgt ggaaaaagca caacaaggaa ttgtctttct ggatgaagta gataagattg 300

<210> 1896
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1896
gtcgtgactc ctgtacaagg aaaataggct tggagaagat tggtgtcaaa attaatgaga 60
agagtggaaa aatacctgta aatgatgtgg aacagaccaa tgtgccatat gtctatgctg 120
ttggtgatat tttggaggat aagccagagc tcactcctgt cgccatacag tcaggcaagc 180
tgctagctca gagacttttt ggggcctctt tagaaaagat atatcatact ttgttctggc 240
ctcttgaatg gacagtagct ggcagagaga acaacacttg ttacgcaaag ataatctgca 300

<210> 1897

<211> 300
<212> DNA
<213> Homo sapiens

<400> 1897
gcaagatccc tccacctgtc attatggtgc aaaatgtgag cttcaagtat acaaaagatg 60
ggccttgcat ctacaataat ctagaatttg gaattgacct tgacacacga gtggctctgg 120
tagggcccaa tggagcaggg aagtcaactc ttctgaagct gctaactgga gagctactac 180
ccacagatgg catgatccga aaacactctc atgtcaagat agggcgttac catcagcatt 240
tacaagagca gctggactta gatctctcac ctttggagta catgatgaag tgctacccag 300

<210> 1898
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 1898
ctcggacaag gcttttgaag actggctgaa tgatgacctc ggctcctatc aaggggccca 60
ggggaatcgc tacgtggggt ttgggaacac gccaccgcct cagaagaaag aagatgactt 120
cctcaacaac gccatgtcct ccctgtactc gacagagtcc gactccatct cagaaannna 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaanaaaat ttnntgaann ananantnga aaaa 274

<210> 1899
<211> 209
<212> DNA
<213> Homo sapiens

<400> 1899
ggggcttctt agggccaatc ttaccacaat gctcacgtgg tcaggcaggg gcttcttagg 60
gcccctgtta ccagttgggt cccagggcat cattgtggaa cccatagatg agatactgcc 120
caccaccccc atctcagaac agaagggtgg gaagccagag ccttctgcca tgccccagcc 180
agttcccaca gcataacagg ttctccttg 209

<210> 1900
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1900
gtaaaccttc cccagtccta tcagagcaaa ctttctgggg ttgcatcccc tcagaaaccc 60
atttggggcc caatctcaat gcacatatca gtgcgcaaag cactaaaatt ccaggcaaca 120
ctttgtattg agagaagcca aaattttggt caggccctgg gacatctaaa gtcaccaatg 180
taactacacc atacagatta aaccctcaca tgatcatgta agctatgcag ttacccaagc 240
tgcatcattt agaaaacctg tacagttttt atggaaacca tccctagtca aggacacttt 300

<210> 1901
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1901
aggacgtccg ctacttgcac ttcctggaag gcacccggga ctatgagtgg ctggaagcac 60
tgcttatgaa tcagacggtg atgtcaaaaa acctttttctg gttcaggcac agaccccagg 120
aagcttttcg ggaagccctg cacatggaca ggtacctgtt gctgcaccca gactttctcc 180
gatacatgaa gaacaggttt ctgaggtcta agaccctgga tggtgcccac tggaggatat 240
accgccccac cactggggcc ctcctgctgc tcactgccct tcagctctgt gaccaggtga 300

<210> 1902
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1902
cattagtatt tttgtgattt catttttttac acttaaatat tgattcatgt ggaattcact 60
ttgatgcagg gtgcagtagg gctccagttt aatttttttt tagattgcta ctcagttgtt 120
tcagtactgc ttagtgaata agccatcttt attatcttga gatgtcactt ttattatgta 180
ctgaatttct ctgtttatgt tgggtcttta gctgtactat gtggtctctt ccattgattt 240
gtcttttact gggctgtgtc atactgtttt taattattgt agtgttatat tttagtattt 300

<210> 1903
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1903
atctcatatg agtgagaaag cttaccagtg cagcgaatgt gggaaagcct tccgagggca 60
ctcggacttt tctaggcatc agagtcacca cagcagtgag aggccttata tgtgtaatga 120
atgtggaaaa gccttcagcc agaactcgag ccttaaaaag caccaaaagt ctcacatgag 180
tgagaagccc tatgaatgca atgaatgtgg gaaggctttt aggcggagct caaacctcat 240
ccaacatcaa agaatccatt ctggggagaa accgtatgtg tgcagtgagt gtgggaaggc 300

<210> 1904
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1904
cacctgtgct tgcagccagg tcaggcccag ctgcagccca ggcaggagca gtcgcctttc 60
ccacccacag cgctggccac agggctccct gcagggtcag ggaccagacc acgcccagag 120
gaggggaggc actggccccc gccacaggac tggagacgca agaacaaaaa gaaccaagta 180
gagagagtgg agctgcttta ttgcccttgg agcccgcgct ctcggaggct gtcttctgtc 240
gccaagggtc ccggaccgag tacacagtgg cagctggctt agttggtgga cggcctgggg 300

<210> 1905
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1905
ggggaaagtt ttcagttgta ttatagttga ttctgactat ttgccataac tgtattctat 60
acacttgctg aaaacattga attagggaat actgaatcat ggctcctaag ggaaagacag 120
ggttaggttc ctggaagcct ctggtcacaa cattttcacc aactgatcaa tagataacct 180
tgttttgttt atgtttgtgt ttagagacat ttaatatata ttgttgactt actaacatcg 240
aactcatggc caatagcact ataacttacg gctgaacaaa gcttatcaag tcttttctct 300

<210> 1906

<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(148)
<223> n = A,T,C or G

<400> 1906
ccggcttcct catcaacctc attgactccc ccgggcacgt cgacttctcc tcggaggtga 60
ctgctgccct ccgagtcacc gatggcgcat tggtggtgga ggacngtgtn tnaagngcgt 120
gcnagcagan ggatacagan acntanca 148

<210> 1907
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1907
gcgtccttca gatatcaaat tcaagcctct aaataagacc aaggagtata cagcctgtga 60
actgatgaac atatacaaga ctgacaatca cctgaaacat tatttacata tcattgaaaa 120
caaacccctg tatccagtta tctatgatag caatggtgtc gtcctttcaa tgcctcccat 180
catcaatggg gatcattcca gaataacagt aaatactaga aatattttta ttgaatgcac 240
gggaactgac tttactaagg caaaaatagt tcttgatatt attgtcacca tgttcagtga 300

<210> 1908
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1908
caaggatggg cgcatccgag aaggagaccg cattatccag attaatggga tagaggtgca 60
gaaccgtgaa gaggctgtgg ctcttctaac cagtgaagaa aataaaaact tttcattgct 120
gattgcaagg cctgaactcc agctggatga gggctggatg gatgatgaca ggaacgactt 180
tctggtgttg gatgtcaatg atgatttttc tgaggaagta accaaacaag aagacctcat 240
gagagaggta aacacctttg taaagaatct gtaaccaata ccatgatgtt caggctgtga 300

<210> 1909
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(211)
<223> n = A,T,C or G

<400> 1909
ggactcagag cctgggaagg aggccgctat gcagggtagc actgggaaca ggagacccac 60
ctgaggctca gccctagccc tcagcccacc tggggagttt actacctggg gacccccctt 120
gcccatgcct ccagctacaa aacaattcaa ttgctttttt tttnggncca aaataaaacc 180
tcagctagct ctgccaatgt caaaaaaaaa a 211

<210> 1910
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1910
cttgggagtc aacccataca ttaatcattt gtacagtgac cttgcagatg ctttagtgat 60
ctttcagctc tatgagatga tccgagtgcc agtcaactgg agccatgtca acaaacctcc 120
ttatcctgcc cttggaggga acatgaagaa ggtgaatgaa ataatggcca tggatatatt 180
gttattgttc tgatatgaaa caaagaattt agagtttcat gaagttatac gtgctctgtc 240
cccacaattc tgattcagac caaaatgtgt taagcttaat agccttttta caagtttgct 300

<210> 1911
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1911
gttagtaggt gcccataact tcggtggtgg agatccaaaa gtgaacaaga cagtgttctg 60
gctgctaaat tcttcttaac tggttatgcc tggagacctt cacttggttc tgtgccagca 120
ctgcccatga acttcataga ctgtgatctt tgctaaggcc taaatgaatg aaggtgcagg 180
accggaagca gaagacagaa agtggagacc agatgtttga agctgggtaa aggcagggat 240
ggagcaggaa ccgaggaaca aaccttggaa ctagagtctg atgcttggct gtctgaaacc 300

<210> 1912
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1912
gttatcaagt ttgaaaatct acaagaatta aagagactgt gtcactgggg tcccatcata 60
gcccttggtg ttatagcaat atgttctacc atggccatga ttgactctgt gttgtggtat 120
tggcccttac atacaactgg aggaagtgtg aatttcatca tgttgataaa ttggactgtc 180
atgattcttt ataattactt caatgccatg tttgtcggtc cgggctttgt ccctctgggg 240
tggaaaccgg aaatttctca ggataccatg tatctccagt attgtaaagt ctgccaagca 300

<210> 1913
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1913
ccccttttgcc ttccccatga ttataagttt cctgaggcct cctgggacat gcggaattgt 60
gactcaatta aacctgtttt ctttataaat tacccagtcc ccagcagttc tttatagaag 120
tgtgaaaaca gactaataca atcctgaagc atttcatcaa agaattgtaa caggagatga 180
aacatggctt caccagtatg atcctgaaga aaaagcacaa tcaaagcagt ggctatcaag 240
aggaggaagt caaagcaaag cagaccagtc aagagcaaag gtaatggcaa cagttttttt 300

<210> 1914
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1914
acccggccca cgcgggccac cagggccttc cattccaggc ccaccaggac cccgaggccc 60
accagggagg gtttgccagg cccaccaggc ccaccaggat cgttcctgtc caactcagaa 120
accttcctct ccggcccccc aggcccacct ggcccccag gtcccaaggg agaccaaggt 180
cccccaggcc ccagaggaca ccaaggcgag caaggcctcc caggtttctc aacctcaggg 240

tccagttctt tcggactcaa ccttcaggga ccaccaggcc cacctggccc ccagggaccc 300

<210> 1915
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1915
gtgaagaaga ataaaagaga aagaaaggaa gaacggcaga agaaaaggaa aagagaaaag 60
aaagaactaa agttagaaaa ccaccaggaa aactcaagga atcagaagcc taagaagcgc 120
aaaaagggac aggaggctga ccttgaggct ggtggggagg aagtccctga ggccaatggc 180
tctgcaggga agaggagcaa gaagaagaag cagcgcaagg acagcgccag tgaggaagag 240
gcacgcgtgg gcgcagggaa gaggaagcgg aggcactcgg aagttgaaac agattctaag 300

<210> 1916
<211> 213
<212> DNA
<213> Homo sapiens

<400> 1916
gtgatgagat ggggaaagtg ggctcaggag gtctggatct gtgatgagat ggggaaagtg 60
ggctcaggag gtctggatct gtgatgagat gggggaagtg ggctcaggag gtctggatct 120
gtgatgagat gggggaagtg gtctcaggag gtctggatct gtgatgagat gggcggaagt 180
gggctcatga ggtctggatc tgtgatgata tgg 213

<210> 1917
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1917
gcaggtatta tattatgaac tactagcaat tcgagaagcc tgcatcagtt tggagaaaga 60
ctatcaacct ggaataacct acattgtagt tcagaagaga catcacactc gattattttg 120
tgctgatagg acagaaaggg ttggaagaag tggcaatatc ccagctggaa caacagttga 180
tacagacatt acacacccat atgagttcga tttttacctc tgtagccatg ctggaataca 240
gggtaccagt cgtccttcac actatcatgt tttatgggat gataactgct ttactgcaga 300

<210> 1918
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1918
agggattgtt gaagaaactt ctgaagaggg aaactctgta cctgcttcac aaagtgttgc 60
tgctttgacc agtaagagaa gcttagtcct tatgccagag agttctgcag aagaaatcac 120
tgtttgtcct gagacccagc taagttcctc tgaaactttt gaccttgaaa gagaagtctc 180
tccaggtagc agagatatct tggatggagt cagaataata atggcagata aggaggttgg 240
taacaaggaa gatgctgaga aggaagtagc tatttctacc ttctcatcca gtaaccaggt 300

<210> 1919
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1919
cttccttgta taatactgat cattctattt tagcggtaag aacccaagaa ggagtatgga 60

tacctgtaaa gctttctggt ccttgggaag cctctccttc tgtgcatatt attactgaaa 120
ttcttcaaaa gattctgaga tgctctcagt gtttcattgc tactttaatt ttaatcatta 180
tgggattgat tgctgtcaca gctactgccg cggcagctgg agttgctttg catttcacag 240
tacaaacagc agactatgta aataattggc agaaaaattc tactttgctg tggaattccc 300

<210> 1920
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1920
cccaggctct ggggcagcgc aggaggggta ggctgggagg ggctgccgca gctgttcact 60
tgggcaggag gccgctatgc agggtagcac tgggaacagg agacccacct gaggctcagc 120
cctagccctc agcccacctg gggagtttac tacctgggga ccccccttgc ccatgcctcc 180
agctacaaaa caattcaatt gctttttttt tttggcccaa aataaaacct cagttagttt 240
tgccaaaaaa aaaaaaaaaa aa 262

<210> 1921
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1921
ttgagacgga gtttcaccat gttggccagg atggtcttca acttctaact tcgtgatcca 60
cgctgctggg attacaggtg tgagccaccg cgtgtggcct ctgggcacct tttgaagctg 120
aagcagagag agaaggcggc aggcatcagc gttttcttct atgaacttat aagatcaaag 180
actttaagac tttcactatt tcttctaccg ctatctacta cgaacttcaa agaggaacca 240
ggagtacgga aggagcatga aagtggacaa ggaacgtgac cattgaagca ccacagggag 300

<210> 1922
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1922
gggggacacg ttggctgcgt tttcggcggg cttcccgggt acaaaaatgg ctgtggctag 60
cgatttctac ctgcgctact acgtagggca caagggcaag tttgggcacg agtttctgga 120
gttcgaattt cggccggacg gtgtttacgt gtaattgttc accataggac gcatgaagag 180
taccaagcaa gaggggagag gaaagcttag atatgccaac aacagcaatt acaaaaatga 240
tgtgatgatc agaaaagagg cttatgtgca caagagtgta atggaagaac tgaagagaat 300

<210> 1923
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1923
ctcccattcc cggaaggagg agacagttac tgtctatccc gcagacgtgg tgctctttga 60
agggatcctg gggcagaatg aggtggacta tcgccagaag caggtggtca tcctgagcca 120
ggatagcttc taccgtgtcc ttacctcgga gcagaaggcc aaagccctga agggccagtt 180
caactttgac cacccggatg cctttgacaa tgaactcatt ctcaaaacac tcaaagaaat 240
cactgaaggg aaaacagtcc agatccccgt gtatgacttt gtctcccatt cccaggaggt 300

<210> 1924
<211> 300
<212> DNA

<213> Homo sapiens

<400> 1924
ctgggctcat gcaatccacc tgccttggcc tccaaagtgc cgggattgca ggcataagcc 60
actgtacccg gccccaacta atttttgtat tttttgtata gatggggttt caccatgtcg 120
gtcaggcttg tcttgaactc ctgagctgaa gcaatccacc cgccttaccc tcccaaaggt 180
gctcatatta caggcttgag gcactgtgcc tggccatggg tgccatctat ctaaagagtg 240
atgaacttgg tgttaaacca gtaattgaaa tcaccaagtt cctaccatca tgagctcagt 300

<210> 1925
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 1925
ccccagtgtc ctcctccttc tccggccaga cccagccccg cgaagatggt ggaccgcgag 60
caactggtgc agaaagcccg gctggccgag caggcggagc gctacgacga catggccgng 120
gncatgaaga acgtgacaga gctgantgat ccnntgtcna angaggaacc gaaaccttnt 180
gnntngagga ctnnngtaac gntgtgnggt tnngctgnnt ntttnttnaa ttttatgtgn 240
nggnctgtnt nnanngntnc ttttttagt 270

<210> 1926
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1926
acagcttcca cgcttctgtc cacttctggt tgccaggaga cagcaagcaa agccagcagg 60
acatgaagtt gctattaaat ggacttcgtg atttttgttt tgcactaaag tttctgtgat 120
ttaacaataa aattctgtta gccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaac 188

<210> 1927
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1927
ggtagacatg cacgttgtca ggggaagaga tggctgtgaa tattctcttg gactgacccc 60
gacaggcata ttaatctttg aaggagctaa caaaataggc ttattctttt ggcctaaaat 120
taccaaaatg gattttaaaa agagcaaatt gacactcgtg gtggtcgagg atgatgatca 180
gggacgtgag caagagcaca cgtttgtgtt ccggttagac agtgccagga cctgcaaaca 240
cctttggaag tgtgcagttg agcaccacgc attcttccga ctgcggacgc caggaaacag 300

<210> 1928
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(284)
<223> n = A,T,C or G

<400> 1928
aaattgtctg ccattacacc agaaggatgc ctctgatagg aggacaacca tgcaaattgt 60
gaaatagtcc tgaagttctt ggattacttt acacctcagt attgatttgt cccagaattt 120
tctggccttt catggcaatg aaaattttaa gaagaaagat ttaaagtatt ttaattttaa 180
agagtgtgtt ataaaataat gtactgaatt ctttatcccc ttttatcatc ctttcagttt 240
ttattaatct actgtatcat aaattctgta antngatgng agga 284

<210> 1929
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 1929
ctcgagtttt ggatttggag agaaatattt taatttttaa atgcagttac aaattataat 60
gtattcatat ttgtactttc tgttaaaatg catgattgca gaattgttta gattttgtgt 120
ttattcttga tgaaaagctt tgtttgttct tgtttttaag tttgcactca aatcttaaga 180
aataaatcca cccatgttat caaaaaaaaa aaaaaaaaan ttnnnccttn aaaannaann 240
gggngngcnan naccnaaaac ccnnncnnna aaaaancctt ggannatttg g 291

<210> 1930
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1930
gctcagtgtt gtaattccct attctagcac tctcaaaagt accccatctg ttacacatgc 60
agaaactgca gcagcatctg aaatgtccac ttcttgattc attctgaact cccttaagcc 120
cagtgtttgt tagttctcgt tcaagtctag gaactctgcc gagtaacagg tatctcaatt 180
ttgccatcct ttctttctgc atagacagga gtgttcttaa atcttctcct gtaaagcaag 240
tcatctctga tttccctgag gatcattgct cccgtatact gttgttgggg tgagccttct 300

<210> 1931
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1931
cccactgccc catcagtatg ggcatgaacc tcactgctgc caccccgatg aaatgctttt 60
gccagcaccc cacatcagag tgatcttgcc agcagactgg gaacatctca ggccctcgag 120
cacagcaggt gcttaaattt gaggtcccag ataacaaagc cgtgggtctg gtaccaggcc 180
ctgtgggtta gagcatgcag cccacgagtg ctgagagagc cttggccccc tgaaataatc 240
caaaaacaaa gccagtcatc tgaacacaac ttataccata gtcaaacctt caatggcatc 300

<210> 1932
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1932
attctctctc cataccaccc cccaaaaatt ttcgccgctc caacacttca acactatttt 60
ggtttatttg tcttattaat atcagaaggc aggaatgtca ggcctctgag cccaggccag 120
gccatcgcat cccctgtgac ttgcacgtat acatccagat ggcctgaagt aactgaagat 180
ccacaaaaga agtaaaaaca gccttaactg atgacattcc accattgtga tttgttcctg 240
ccccacccta actgatcaat gtactttgta atctccccca cccttaagaa ggttctttgt 300

<210> 1933
<211> 208
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

<400> 1933
gctggtgtta gggttctttg tttttggggt ttggcagaga tgtgtttaag tgctgtggcc 60
agaagcgggg ggaggggttt tggtggaaat tttttgttat gatgtctgtg tggaaagcgg 120
ctgtgcagac attcaattgt tattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaan cccccccc 208

<210> 1934
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1934
ccagcatggt ggatgatgtc ttctacattg ttaagaagag cattgggcgg gctctgtcca 60
gctccagcat tgactgtctc tgtgccatga tcaacctcgc caccacagag ctggagtctg 120
acttcaggga tgttctgtgt aataagctgc ggatgggctt tcctgccacc accttccagg 180
acatccagcg cggggtgaca agtgccgaga acatcatgca cagcagcctc cagcaaggca 240
aatttgacac aaaaggcatc gagagtactg acgaggcgaa gatgtccttc ctggagactc 300

<210> 1935
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1935
aattccaatt ccacattttc aagaaataag gaggcaaaaa tgttcatata tgaattggaa 60
ttatttgttt tcttattagg ccgagatgcg ccgcgtgcgg ctgctggaga tggcggacgc 120
gatggatatg ttctgccaag ggttggtttg cgcattcaca gttctccgca agaattgatt 180
ggctccaatt cttggagtgg tgaagaaaga aaaaagttga actagatttg gtctgatgca 240
gttacagatt tacaaactgt gcccccaccc tcctgcagac accttccact cctcattctt 300

<210> 1936
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1936
cccagcccta gatactggca ctactgagga ggatcgttta aaaattgatg taattgactg 60
gttggtattt gacccagcgc agagggcaga agcactgaaa caaggcaatg caattatgag 120
aaaattcttg gcatcaaaaa agcacgaagc tgcaaaagaa gtatttgtga aaattcctca 180

ggattctata gcagaaatct ataatcagtg cgaggaacaa ggaatggaaa gtccacttcc 240
tgctgaagat gataatgcta tccgagaaca tttgtgcatc agagcttatt tggaagccca 300

<210> 1937
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1937
ggtacccagt aggtatcgtt ggaaacaacg gagttctctt ttctgaatct gcaaaaaagg 60
gtactcactt tgtccagtta tgctgccaaa gaaatattcc tctgctgttc cttcaaaaca 120
ttactggatt tatggttggt agagagtatg aagctgaagg aattgccaag gatggtgcca 180
agatggtggc cgctgtggcc tgtgcccaag tgcctaagat aaccctcatc attgggggct 240
cctatggagc cggaaactat gggatgtgtg gcagagcgta tagcccaaga tttctctaca 300

<210> 1938
<211> 149
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(149)
<223> n = A,T,C or G

<400> 1938
gcgagtcgta gtgtcgctgt ttgcgggtct ccgcgcggga ccggggcgca gcggggtcgc 60
tgaggcgagg gtgtcatgtc agacaacgag gacaattttg atggcgacga ctttgatgat 120
ntggagnagg atnangntct atatgactt 149

<210> 1939
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1939
gatgaggagt gtttaatcat tgatacagaa tgtaaaaata atagtgatgg aaagacagct 60
gttgtgggtt ctaacttaag ttccagacca gctagtccaa attcttcctc aggacaggct 120
tctgtaggaa accagactaa tactgcttgt agtcctgaag agtcatgtgt tttaaaaaaa 180
cctatcaaac gagtatataa aaaatttgat ccagttggag agattttaaa aatgcaggat 240
gagctcttaa agccaatttc cagaaaagta ccagaattgc ccttaatgaa tttagaaaat 300

<210> 1940
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1940
ggggcttatt tcatccctac agtctcgacc atagaagaca gctacaccca agggggccat 60
tttagaggcc caccctcagg ggcacattct ctttctcagg gatgttcctt gctgagaaaa 120
agaattcggc gatatttctc ccatttgctt ttgaaagaag agaaatatgg ctctgttccg 180
cctggctcac cggcggtcag agtttaaggt tatctctctt attccctgaa cattgctgtt 240
atcctgttct tttttcaagg tgcctagatt tcatattgtt taaacacaca tgctctacaa 300

<210> 1941
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1941
gcagcttgaa ggaaagactt ttaaaggtac atgatgaaga aaaccaaatt aaataattgg 60
ttaggtacag ttcatagtta cttgatttgt acaattaagg tggacatttc ctggttatgt 120
aatcagaggt taattggcag tttatgattg gttaagccta aatttttgtt tccctcaatt 180
cagtaatttg caaaaaaatg catttgagtt agagttttta aaaaatagga acccagggac 240
tagagtaacc tccgtctaat tgcctgctac ttagttattt tcacactcca caggggactg 300

<210> 1942
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1942
gggagggcac acctgggggа cagcagcggc gggagtgtgg tccgactggc ctggaagatc 60
ttgggcagag ctgacctcag agaacagtgc gggtctctcg ccctcctggg gcagtcccca 120
ggacgaggtg ccaggtgcct ggcccatgtt gcaggggggcc gtggagccca tgcagatcga 180
cgtggacccc caggaagacc cgcagaatgc acctgacgtc aactacgtgg tggagaaccc 240
cagcctggat ctggaacagt acgcggccag ctacagcggc ctggccactg ggtgccaccc 300

<210> 1943
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1943
gcatatgctt gtctcaaaga ttaagccatg catgtctaag tacgcagggc ctgagtctct 60
gccctcgtgg gcgttgagtg acactgattc tcgcgtgtct ccggcctctc cggcagggag 120
tcctagcgca gactttgcgg ttcatggaga gtctctggga gacaggcacc tgcggacgct 180
gcagataagt tacgacgcac tgaaagatga aaattctaag ctgagaagaa agctgaatga 240
ggttcagagc ttctctgaag ctcaaacaga aatggtgagg acgcttgagc ggaagttaga 300

<210> 1944
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1944
aaacaacgga gttctctttt ctgaatctgc aaaaaagggt actcactttg tccagttatg 60
ctgccaaaga aatattcctc tgctgttcct tcaaaacatt actggattta tggttggtag 120
agagtatgaa gctgaaggaa ttgccaagga tggtgccaag atggtggccg ctgtggcctg 180
tgcccaagtg cctaagataa ccctcatcat tgggggctcc tatggagccg gaaactatgg 240
gatgtgtggc agagcgtata gcccaagatt tctctacatt tggccaaatg ctcgtatctc 300

<210> 1945
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(230)
<223> n = A,T,C or G

<400> 1945
gtcaacctct accacgtgcg ggaggatggc tggatccgag tctccagtga caatgtggct 60
gatctacatg agaagtatag tggctctacc ccctgaaaga gggtggatgc agntgcttgt 120
gntncatggg gtgactgtca atcggtatnt actgnanacn tatgactnna ctcctncatc 180
cctantanta gcgtanatnn gtnntttnag gatctatttn tngttgntnt 230

<210> 1946
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1946
gcatattgtg gagaggcaca gttcaggagg aatagggttc gtcttgaaga ggaggacact 60
ttcctgtgaa tcatgaggga cagaagatcc atatagaaga agacaatagc tttgatcttc 120
tattacaaga aaaggaatgc cagtgtaaga gatggcatga tatggaagtg tattcctttt 180
caggcctgca gagtgtccct cccttggctc cagaacgaag atccacactt gaggactact 240
ctcagtcgct gcacgccaga actctgtctg gctctccccg atcctgttct gagcaagctc 300

<210> 1947
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1947
ttcaaatctg ccactcccag agcccgtgga actctggccc aaggctctct gactgactcc 60
ttcttggctt agcggctgaa gactgacact gcccgatcgc ctcagaaacc ccgtagacca 120
tcacggacgc cgagctttag ttaactctca cagtggagga aggcaggaat gtcaggcctc 180
tgaacccaag ccaagccatc acatcccctg tgacttgcac gtatgcacgt atgcacctag 240
atggcctgaa gttactgaag aatcacaaaa gaagtgaaaa ggccctgccc cgccttaact 300

<210> 1948
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1948
agtcaatgtc aattcctcaa agcagtctgg ttatatctga aaatacatga ttctagtcaa 60
agccttggtg aaataaccag tgtttccaat tgtgtcctgt tacaaaacaa aacagattct 120
tactgaattt atgcaaacaa ctacattgcc ataaagtaag aatactcatg aaaagtttcc 180
aaattctgga gaactcaggt agaggggaga agtaaatttt gctcacaaaa gtatccttta 240
caatcagagt agcagtcttc caaacaggat gttgcccgtt catcatggaa cggccatcca 300

<210> 1949
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1949
atcaaacact acctgaaatt attggcatgt ggaccccggc tcagaaacac tgacataaag 60
acttaaatgt aatgggattt gttttcaaaa gatttgactt ttctctgtaa aaaacacagc 120
aacaaggcaa cagggaatat taccaaagtt tcccaaaggc ttgtatagga tttgaaaaag 180
ttgggggaag aatttaaccc taaaagctta actgattttc aaacacctgc aaatacataa 240
ttacagatcc tgtgaagctt aaccttggtg gtgttaaatg ttagctagaa tgtcacaagg 300

<210> 1950
<211> 300

<212> DNA
<213> Homo sapiens

<400> 1950
gtatactttg acactgagaa caaagagaca gttatatctg gaatgggaga attacacctg 60
gaaatctatg ctcagaggct ggaaagagag tatggctgtc cttgtatcac aggaaagcca 120
aaagttgcct ttcgagagac cattactgcc cctgtcccgt ttgactttac acataaaaaa 180
caatcaggtg gtgcaggcca gtatggaaaa gtaataggtg tcctggagcc tctggaccca 240
gaggactaca ctaaattgga attttcagat gaaacattcg gatcaaatat tccaaagcag 300

<210> 1951
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1951
ccggcatgtc tttctcccgc aagagctata ggctgacctc agatgctgag aaatccaggg 60
tcacaggcat tgggcaggag aagctgctga atgactacct gaaccgcatc ttttcctctt 120
ctgaacatgc acccccagca gccaccagca ggaaacccct gaacttccag aacctgccag 180
aacatttgga ccagttgcta caggtggaca atgaggagga ggaaagccag ggacaggttg 240
aagggcggct tggcccatcc actgagggcc tggaccacac aggcggcttt gaggggcttc 300

<210> 1952
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G

<400> 1952
gtgcgcttnt atgtnctcat agacnttttt ttnaatccct tttaancacc tactatgntc 60
tggnntgcng gatcngntcg gntctntcca tgngacaacn ctcnccacac gccaaccccg 120
ttcannaacg ccctaanggg gaacttanng gggtgaatcc cctgccacag accccgnacc 180
tggagnagga cttgaaggan gtgctgcntt ctgangctgg catcnaactc atcatcnagg 240
actacatcan gcccnagaan cataatagga ancctggnct gcngcgganc cncatcaa 298

<210> 1953
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1953
ggccatcctg gccatccaca aggaggccca gaggatcgct gagagcaacc acatcaagct 60
gtcgggcagc aacccctaca ccaccgtcac cccgcaaatc atcaactcca agtgggagaa 120
ggtgcagcag ctggtgccaa aagcctctag aactatagtg agtcgtatta cgtagatcca 180
gacatgataa gatacattga tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa 240
tgctttattt gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat 300

<210> 1954
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1954
cccgcctgcg cccaggtgaa atacacagcc atgttgctca cacaaagcct gtttggtggg 60
ctcttcacac gggcacgtat gcaatttggt gccgtgactc ggatcggggg acctcccttg 120
ggagatcaat cccctgtcct cctgctcttt gctccgtggg aaagatccac ctatgacctc 180
aggtcctcag accgaccagc ccaagaaaca tctcaccaat ttcaaatccg aaggcaggaa 240
tgtcaggcct ctgagcccag gccaggccat cgcatcccgt gacttgcacg catacatcca 300

<210> 1955
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1955
agcaagtcag caaatgtggg agatggaaaa ctggcttcct ccacccacct aggttctttg 60
gctgggctac aaattaaatg gacataaaat agattaacag gagaaaaaac acagtaatta 120
tgtgtatatg cctgggagtc ccacaaaata tgagactcaa aagaagggtc cgaagaggga 180
agcttatata gccccctgag ccacagaaag gaatagggac ctggggcttc tggtgggtgg 240
tggagacaag ttatggaaga gtgaggggag gaagtgtagg gtgagtaaat gtggtcttgt 300

<210> 1956
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(202)
<223> n = A,T,C or G

<400> 1956
ccccagtgtc ctccttcttc tccggccaga cccagccccg cgaagatggt ggaccgcgag 60
caactggtgc agaaagcccg gctggccgag caggcggagc gctacgacga catggccgtg 120
gccatgaaga acgtgacaga gctgaatgag ccactgtcga atgaggaacc gaatccttct 180
gtctgtggcc tacaanatcg tt 202

<210> 1957
<211> 218
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(218)
<223> n = A,T,C or G

<400> 1957
ggcagctcca agtggaatcc acgtgcagct tctagtctgg gaaagtcacc caacctagca 60
gttgtcatgt gggtaacctc aggcacctct aagcctgtcc tggaagaagg accagcagcc 120
cctccagaac tctgcccagg acagcaggtg cctgctggct ctgggtttgg aagttggggt 180
gggtaagggg ngactgngct acnncatann ntttttat 218

<210> 1958
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1958
ggtatgtgta gcggcagtgg ccgccggcgg agcagtctga gcccgacgat gaggccgggg 60
acgggagctg agcgtggagg cctcatggtg agtgaaatgg agagccatcc tccctcgcag 120
ggtcctgggg acggggagcg gagattgtcc ggctcaagcc tctgctccgg ctcttgggtc 180
tctgctgacg gcttcctgag gagacggccc tcggtaaggg atcagtgggg caggggggaag 240
gcggcacatt gaaaaacgga gtgagaaaca ggaagctttc tccgaaagga gaagaagata 300

<210> 1959
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1959
ccggaacaag gaccaggagg tgaacttcca ggagtatgtc accttcctgg gggccttggc 60
tttgatctac aatgaagccc tcaagggctg aaaataaata gggaagatgg agacaccctc 120
tgggggtcct ctctgagtca aatccaatgg tgggtaattg tacaataaat ttttttgga 180
cagatnnaaa agaaacaaaa cttgctttac agatnctgaa aggcctgnna caaggccngg 240
naattngggg antccgtcct gcattgngca ngatgctcag cggcatccct ggncacccac 300

<210> 1960
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1960
agggggcggg cccgtacgcc gattccatat gggcgccggc gcggagcgcc gcggggcagc 60
gcggggtcgc catggctgag ctgcagcagc tccgggtgca ggaggcggtg gagtccatgg 120
tgaagagtct ggaaagagag aacatccgga agatgcaggg tctcatgttc cggtgcagcg 180
ccagctgttg tgaggacagc caggcctcca tgaagcaggt gcaccagtgc atcgagcgct 240
gccatgtgcc tctggctcaa gcccaggctt tggtcaccag tgagctggag aagttccagg 300

<210> 1961
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1961
cagggccgta ggcagccatg gcgcccagcc ggaatggcat ggtcttgaag ccccacttcc 60
acaaggactg gcagcggcgc gtggccacgt ggttcaacca gccggcccgg aagatccgca 120
gacgtaaggc ccggcaagcc aaggcgcgcc gcatcgctcc gcgccccgcg tcgggtccca 180
tccggcccat ttgcgtcatt gccccagt 208

<210> 1962
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1962
agaaagattt tctttattaa tgaccccaac cgtatttctt tagatacagg agttttgaac 60
ttccataatt aggagaaaac cgttatgact gcattatcct gcaactctta cccgtaatat 120
attgcaaagc gaaacagctt ggaaaagagg gtgggagaaa agggaagtga gggagggaag 180
ataaagaaaa ggaattaagt tgatcaagtg gaattctttt ttttttttaa attntnggna 240
nctntnaagn ttttgnannc ccanntngtt nnngcaaatn ntttnccaan cgnntccaaa 300

<210> 1963
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1963
aggagaagga gaaagcacat gaaggagcaa gacccatgag agccatcttc ctggccgatg 60
gcaatgtctt caccactggg ttcagccgca tgagcgagcg gcagctggct ctctggaatc 120
cgaaaaatat gcaggaacca attgctcttc atgagatgga cactagcaat ggggtgttgc 180
tgcctttcta tgaccctgac accagcatca tttacttatg tggaaagggt gacagcagta 240
ttcgctattt tgagatcacg gatgaatccc cgtacgtcca ctacctcaac acattcagca 300

<210> 1964
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1964
gagaactagt caataaggaa caggatcaac ggccactcca cccagtggca aatccacatg 60
cagaaatctc caccaaggtt ccagcctcca aagtgaaaga cgccgtggaa cagcaagggg 120
aggtgaagaa gaataaaaga gaaagaaagg aagaacggca gaagaaaagg aaaagagaaa 180
agaaagaact aaagttagaa aaccaccagg aaaactcaag gaatcagaag cctaagaagc 240
gcaaaaaggg acaggaggct gaccttgagg ctggtgggga ggaagtccct gaggccaatg 300

<210> 1965
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1965
acaggttccc atagctacag aggtgctttt caaacttaca cagggaagtg tgacctttta 60
agatgtggcc gtgtacttct cctgggagga atgggatctc cttgatgagg ctcagaaaca 120
cctgtacttc gatgtgatgc tggagaactt tgcacttacg tcctccctgg gttgttggtg 180
tggagtggaa catgaggaaa caccttctga acagagaatt tctggagaaa gagtgccaca 240
gttcaggact tccaaagaag gttcatcttc ccagaatgcc gactcctgtg aaatatgttg 300

<210> 1966
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 1966
ggagaacggg gctgaggagg aagaagaaga aactgccgag gatggagagg aggaagatga 60
aggggaagaa gaagatgagg aagaagaaga agaggatgat gaagggcccg cgctgatgag 120

agctgccgaa gaggaggatg aagcggatcc caaacggcan aanacagaan atggggcntc 180
ggngngagcc cctgncaana ggctgncgnt gggagg 216

<210> 1967
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1967
taggcgtgcc taatgggagg tctatataag caatgctcgt ttagggaacc gccattttgc 60
ctggggacgt cggagcaagc ttgatttagg tgacactata gaatacaagc tacttgttct 120
ttttgcagga tcccatcgat tcgaattcgg cacgagacca ttttatttt tgggccatta 180
ccccataccc cttattgctg ccaaaaccac atgggctggg ggccagggct ggatggacag 240
acacctcccc ctacccatat ccctcccgtg tgtggttgga aaacctttgt tttttggggt 300

<210> 1968
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1968
gcctcagagt ctctgatcaa gcagattcca cgaatcctcg gcccaggttt aaataaggca 60
ggaaagttcc cttccctgct cacacacaac gaaaacatgg tggccaaagt ggatgaggtg 120
aagtccacaa tcaagttcca aatgaagaag gtgagtgggt ctggcgggtt gctatgggtg 180
aaggtgttgg cagggtctaa atcttatcca agtctctaaa tatgccagta agagcaccca 240
ccaggattga aacttttgga gtaaccctgg tcttggcccg ggtccaagta cctgctcacc 300

<210> 1969
<211> 279
<212> DNA
<213> Homo sapiens

<400> 1969
gtagagacgg ggtttcacca tgttggccag gatggtctca atctcttgac ctcgtgatct 60
gcctgccttg gcctcccaaa gtgctgggat tacaggtgtg agccaccacg cctggccggc 120
ttatttttat ccacagtaaa tcttcagcaa ctcattgtct ccaccagata gtatttttct 180
gtaaatgaaa tgctgacttc gcctcttcct gctgtatgct catccctgca ctgagcacag 240
atatgacaag cagtagccat gggggaggtg tgggaaagt 279

<210> 1970
<211> 206
<212> DNA
<213> Homo sapiens

<400> 1970
ggagacttaa ttttccaaac agtaagcctt gaaaaaagaa gccaagtaaa tttgtttttc 60
aaaattgtat aaaaaatcta taaaattttc atcttgacca taatatataa gtttcataag 120
ccttttataa cctttataac ctttattaag gagtcagtta gtgcttcaag aaaaccttgt 180
taatctgaca caggggccca tttgcg 206

<210> 1971
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1971

caggagcctg ccagaagccc atgggggcc aggccgggtg gcttctattt tatttttta 60
gagatggggt cttgctgtgt tgcccaggct ggtctcggac tcctgggctc aagcagtcct 120
ccctcctcgg cctcccaaag ttctggggct acaggtgtga gccacttctg cccagcatcc 180
caggcctgaa cagccttggc aggacccgtc cctagagggg gctctggtgc ctcccttagg 240
tgggccttga gctggttttt aaccaaacat ccttccaaac tctgtctgcg acctgcttcc 300

<210> 1972
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1972
catgttggca tctgcccctc ctcaagagca aaagcaaatg ttgggtgaac ggctgtttcc 60
tcttattcaa gccatgcacc ctactcttgc tggtaaaatc actggcatgt tgttggagat 120
tgataattca gaacttcttc atatgctcga gcctctagaa ctatagtgag tcgtattacg 180
tagatccaga catgataaga tacattgatg agtttggaca aaccacaact agaatgcagt 240
gaaaaaaatg ctttatttgt gaaatttgtg atgctattgc tttatttgta accattataa 300

<210> 1973
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1973
gaaatatact tccttaaatg atggacattc ctaaatccat ctaggaatgt tggatgtatc 60
tatctatcta tctatctatc tatctactgt attaagcccc ttctcaaaat tgtagtttca 120
gaagtatggt ttgataattc ataatcaagt tctttttctt tatgcccaga agtctgtatt 180
ctgcacagac ttgcataccc ctagctgcgc taaagttcag aagtttgagc tgccactgaa 240
gtattgactg tggagaggcg gggttttctg tctccaatga ggtgcctttg gtgtcgggaa 300

<210> 1974
<211> 181
<212> DNA
<213> Homo sapiens

<400> 1974
gttgagtgac atggctctct tcattctgca aagagggcag cagggaggaa atgagtgaat 60
ccaggagtgg ccccctcca cgagggacct ttccagcaca gggtttgatc tgtgtgtatc 120
acaggggaga tgggagccat ggaaggttct tgagcaagat gggggtgggg gtggggccca 180
c 181

<210> 1975
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1975
gcagtctcct gagccagagt gtgctcagac agagtccagc tggtggaaag ggacttatgg 60
agagaaaaag aaaagcgatg tagaaaaatt gaaaagaggt acagaaacag ctggattggt 120
tacagctcgg tgtttgcctt attttgaaca gggtttgaac agttggccac ctttggttgc 180
tcaaaacttg gtgattggca caagagtagg ttacagtctg tttgcacatc catttaggtt 240
gcagttcact gtgtacagag aaacctttag gctgaactta aaacgtgtaa ggagacagct 300

<210> 1976
<211> 189
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(189)
<223> n = A,T,C or G

<400> 1976
gtgggttagg ggagccgcat tcgcaaccac aagtaccgca gcctcaacga cctagagaag 60
gacgtcatgc tcctgtgcca gaacgcacag accttcaacc tggagggctt cctgatctat 120
gaagactcca tcgtcttgca gtcggtcttn accagnttgc ggnntaaaat ntagaaggan 180
gatgacagt 189

<210> 1977
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1977
gtaagacatc agaaagtata tgtgagatca ataataattc cgaacatgga gccaaaaaca 60
tgtttgctat atctaaacaa ggaagtaatt tggtacaatc aaagcatttg aatccaggca 120
gcatttcagt gcagacatct ttgacaaata gctcacaaat agataagcca atgaagatgg 180
agaaagggga aatgtatgga aattctccaa gatttttagg tgccacaaat ttgactatgt 240
attctaagat ctcaaactgt cagataaata atctgcatgt gtcttatact aacactgatg 300

<210> 1978
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(244)
<223> n = A,T,C or G

<400> 1978
ggggactctg ccactctacc cccagcccta cccaccagcc cccaggtgag gcttccagct 60
gggacctgcc cagacaggct gagcctgggc gtggtgggtg gggtgatgnc tctggngagc 120
ggctgtcatn ctacaaacnn caccnnntnc tttgagctnt nantatggna cccagtgnct 180
tnntntgnan nacanggnga anntgccnnt cgnnnaccnn catncnggga nnnccccntt 240
tttg 244

<210> 1979
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1979
aatcataatg gggaaggcca tccagcctcg cgtcgcgaac gccagcaaga cgtagcccag 60
cgcgtcggcc gccatgccgg cgataatggc ctgcttctcg ccgaaacgtt tggtggcggg 120
accagtgacg aaggcttgag cgagggcgtg caagcgctca ccgcatcgtg gcacctggca 180
agggcatcct ggctgcagat gagtccactg ggagcattgc caagcggctg cagtccattg 240
gcaccgagaa caccgaggag aaccggcgct tctaccgcca gctgctgctg acagctgacg 300

<210> 1980
<211> 187

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(187)
<223> n = A,T,C or G

<400> 1980
atgataatga aagactctcg aaagttgaaa aagctagaca gctaagagaa caagtgaatg 60
acctctttag tcggaaattt ggtgaagcta ttggtatggg ttttcctgtg aaagttccct 120
acaggaaaat cacaattaac cctggctgtg tggnggntga nggntngctn cctgnnctgn 180
nngacng 187

<210> 1981
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1981
ctttctctgg cagtgattcc tgaagggaaa atcatgaaca acacctacta ccaggaatgc 60
ctcttctacc tgcacaacta tagcaccaac ctggccatca tcagcttcta cgtgaggcac 120
agctgcctgc gggaagctct tctgcacctt ctcaacaagg tgggacatgg acacagctca 180
aaaaggcagt gcctgcctta ctcctctggc ttggaccact cagccttaag cgggacaata 240
acccccctgac acttaaccct gtgttgagct atggggccat ctctagcaga gtcaagtcaa 300

<210> 1982
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1982
ggggttgggg gtgggaccct gggatggggg gagaagcagc tgtttctgga gagagaaggg 60
gtcatggtgg ccccagactg tagagatttt tatgtgtttg gatacatctg ctgtgtggaa 120
aaaaaaaaac tacaaaaacc ctaattttgt acatactgta tttttactat tgaactgtat 180
tctagtggct gttcatgctc caagacttta gttaccgaga catgaatact atccatgtaa 240
taagcacttg cctggaataa aatataaaac tgaaataaac ctgcactgaa acctgaaaaa 300

<210> 1983
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1983
caatgaacta ctctgcagcc tcatttttta aaaaatgaga taggtaagtg tggatataaa 60
taactgtcca acatatatag ctgagtaaca aaaatagcaa actagaaaac aatgtattat 120
tccatttgtg ctgaaatatg tatgttggta tgtgtaaata tgtatggttg tatagacagt 180
tcttttctaa aatttttttca tttttaattt ttgtgggtac atactaggta tatatatttg 240
tggggtacct gaggtatttt gatacaggca tgcaatgtga aataatcaca tcagcataaa 300

<210> 1984
<211> 296
<212> DNA
<213> Homo sapiens

<400> 1984

gcctcatctc ccactgagca ggtgccatcc caggagatgc cactgttggc gagaccttcc 60
cctcctgtgc agtctgtgtc ccctgctgtg cccacacctc cctcgatgtc tgctgccctg 120
cctttccctg caggtggtat gggaggtggc atgttctaac tcctagacta gtgctttacc 180
tttattaatg aactgtgaca ggaagcccaa ggcagtgttc ctcaccaata acttcataga 240
agtcagttgg agaaaatgaa gaaaaaggct ggctgaaaat cactataacc atcaat 296

<210> 1985
<211> 246
<212> DNA
<213> Homo sapiens

<400> 1985
cacaggcttt ggttcagaat ataggtcagc caacccaggg gtctcctcag cctgtaggtc 60
agcaggctaa caatagccca ccagtggctc aggcatcagt agggcaacag acacagccat 120
tgcctccacc tccaccacag cctgcccagc tttcagtcca gcaacaggca gctcagccaa 180
cccgctgggt agcacctcgg aaccgtggca gtgggttcgg tcataatggg gtggatggta 240
atggag 246

<210> 1986
<211> 175
<212> DNA
<213> Homo sapiens

<400> 1986
ccgtcttcgc caaggccccg cccgagccta gttgttctcc ccctgaatgt gtagaacctt 60
cctttgaaat ttcttaatcg gtgcattgag gtttccacat ctttttccaa gcagtgcccc 120
acttcatgga tttatagcta tagtctatgc agtcgttacc tctttttttt ttttt 175

<210> 1987
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1987
agccgatgtc cagaaacgag tgttagagaa gacgaagcag ttcatcgaca gcaaccccaa 60
ccagcctctt gtcatcctgg agatggagag cggcgcctca gccaaggccc tgaatgaagc 120
cttgaagctc ttcaagatgc actcccctca gacttctgcc agcctctaga actatagtga 180
gtcgtattac gtagatccag acatgata 208

<210> 1988
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1988
cccgacggtg tgtgggcaca cgggacctgt cctggacatc gactggtgtc ctcacaacga 60
cgaagtcata gccagcggct cggaggactg cacggtcatg gtgtggcaga tcccagagaa 120
cgggctgacc tccccgctga cagagccggt ggtggtactg gaggggcaca ccaagcgagt 180
gggcatcatc gcctggcacc ccacggcccg aaacgtgctg ctcagtgcag gctgcgacaa 240
cgtggtactc atctggaatg tgggcacagc ggaggagctg taccgcctgg acagcctgca 300

<210> 1989
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1989
aatcagtcnt ttntancagt aacanaggac angtccntcg ctnngctgta gtngtnnnan 60
tgtnggtaat actcnttgnt catcatgaaa tgcagtgtaa nggttgtgtt cgcctattga 120
nnnttnaaac nncangtngt ttangtnaaa gnttancaga tcttaaagat aatcactgtg 180
agnnnnttag agtaaaaatt cgaaaactga aaaataaggc tagtgtacta caaaagagac 240
tatctgaaaa agaagaaata aaatcgcagt taaagcatgc aacacttgaa ttggaaaaag 300

<210> 1990
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1990
gtgagccgag ccgagatcgc ggcacggcac tccagcctgg gtgacagagt gagactccgt 60
ctcaataaat aaataaataa ataaataaat aaaataaagc aaggtaatga aggtgaatgt 120
gcttagtatg tggccagata cagagtaggt gctctgtaat attagttaca gtgattgcct 180
gctaggagtg taggctggtg ctaaaacatg acccaggtct agaaagacac acaatccacc 240
cctaactcct ttcctcgtct gccactcctt atccccagga ttacttgttc ttttatgact 300

<210> 1991
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1991
gtaagcaatg tgggaaagcc ttcagatctg cctcaatcct tcaaatgcat gctgggactc 60
accctgaaga gaagccctac gagtgtaagc aatgtgggaa agccttcaga tctgccccac 120
accttcgaat ccatggtaga actcacactg gagagaaacc ctatgagtgt aaggaatgtg 180
ggaaagcctt catatctgcc aagaaccttc gaattcatga aaggacacaa acacacgtaa 240
gaatgcactc tgtataaaga ccttataaat gtaagatatg tgggaaaggc ttttattctg 300

<210> 1992
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1992
gtgacacaga gacagagaaa cctcccccac ccagggaagc agctctgcag agttggcagg 60
atcaggggct agtctgaacc cctagcacag aacactcacc tcacggaaga gtggccagaa 120
tgttttccac ataggtcctg gtcctcactt ctcctcactg agcagggctg cccaacgtgg 180
gacttctgca caaccatcct gcccctgcct gaccacttca atcagaggca gcctggcagt 240
taaaggaaca cccacacaca gaggtgaaaa agaaccaatt caagaactcc agcaacacaa 300

<210> 1993
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1993
gccaccacca ccaccagccc cacaaaatgg acctcaaggc ctacgaacag gtgatgcact 60
accccggcta cggttccccc atgcctggca gcttggccat gggcccggtc acgaacaaaa 120

cgggcctgga cgcctcgccc ctggccgcag atacctccta ctaccagggg gtgtactccc 180
ggcccattat gaactcctct taagaagacg acggcttcag gcccggctaa ctctggcacc 240
ccggatcgag gacaagtgag agagcaagtg ggggtcgaga ctttggggag acggtgttgc 300

<210> 1994
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1994
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gcttgggcac tgttgaacgg acccaggatt ccgaaggctc cttcaaactg gaggatccta 180
ccgaggtgac cccaggattg agcttcttta atcccgtctg tgccaccccc aatagcaaga 240
tcctgaaaga gatgtgcgat gtggagcagg tgctgtcaaa gaagactccc ccagctccct 300

<210> 1995
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1995
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taccaccctc ctcgccctcg gtgtcctgga gaaaggcgga aggaatgcgg acctttttga 120
agtgacggac gcgccagcct atcaggggcg agctcaagag ggcggggcgg aagactgcag 180
gaatgaaatg gattgacaga ccaaataact aatgagaggc ttgattgaga acctacccga 240
ctatcagagg acctgtccgg gaagagaaat ggggctacgt ccagacagaa tctcgctctg 300

<210> 1996
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1996
ttatagctgt gtcggtctag cattttcttt gaagcatatg gaacatgttc tgctactcga 60
gataatgaac atttccttct gcctcaaggt acaatcagtt tatgatcctg ggagagcaag 120
aagcaaggag ccagcaagtc tggacacatt ccagaggcca cgaggggttt tatgtcctga 180
gtcctggatt ccatccaagc catgaggggt tttatgccct aggcttaggt tgtagtgcgg 240
cggggcagcc ttccaccctt aagcacagaa cctggtgttc cataggccac aagaagtttt 300

<210> 1997
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1997
aagggagagg cagtaggact aggagttaaa ttgtcatgcc gaggtctctg agcatgggtg 60
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taggaagctc ttcagcctcc tttccttgct agaggtgctg ttttccctgg aaatgttcaa 180
gccctgcaaa tcgtttctat agtaacaggt ctctgtcttt tttcttatga tgcagatttt 240
tgaaaaggtt tcttatctaa atgttcttgg gatctatggt cttcctacct gtagctcctt 300

<210> 1998
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1998
aagttttggc agtgcattta aagacttaca gaaaggagtc tcttcatgta ccaatgcttt 60
gtaccactta gccatcaaat tgacatcatc tgttttgcag atggcatttg atgagctgag 120
aaggcagcgt gcattttcac taaaagaacg tgccattagt ggcctggcta acttttggt 180
gagtgaagct ttatcaaatg ccttaaaaga tttacagtat gtaaagaagc agatattcac 240
aaacacagtt gctaggtttg ctgcagatct tgctgaagag cttgtttttg aaggcatcat 300

<210> 1999
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

<400> 1999
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ccaggagcta agtgcctttt tgtgtgcaac cacttaccct ttctctgaaa aacctgttct 180
caggaaggat ctgataaact catttactct caaaaaaaaa aaaaaaaaac ctggnccntt 240
naaannntntg gggngccntt tnncgaaann ccaanctnnn taaaaccctt 290

<210> 2000
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2000
gcagccaatt gggaagagtg acttctgtga gatggctggc tggtgatagg actaagttct 60
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ttattcctac aagtttaagt agtagacaga tactatccag ctctaagtct caactgctct 180
tttatactgt actttttttt tgagacggag ttttgctctt gtagcccagg ctggagtgca 240
atggcaggat ctcagatcac tgcaacctct gcctcctggg ttcaagcgat tttcctgctt 300

<210> 2001
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2001
gcgccatgtt aggacgaagg ggaaggagga gaagcgctta aagcggcggg agcggtgcgg 60
gagaggggtt ggacccaggg ctgaggcagg ccccccctc cctcccgcct cagtggatca 120
tgcccagggc ggcagcggcg gcggttgcgg gggggaagtg actgggcggt gccggcgccg 180
gagacgatgc cgtttccagt tacaacacag ggatcacaac aaacacaacc gccacagaag 240
cactatggca ttacttctcc tatcagctta gcagccccca aggagactga ctgcgtactt 300

<210> 2002
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2002
ccccgacccc gggccacctg ggcccccggg ttccgccggc actctcgcca ccaccgcgtg 60
ggtctgacaa gatgtaccag gtcccactac cactggatcg ggatgggacc ctggtacggc 120

tccgcttcac catggtggcc ctggtcacgg tctgctgtcc acttgtcgcc ttcctcttct 180
gcatcctctg gtccctgctc ttccacttca aggagacaac ggccacacac tgtggggtgc 240
ccaattacct gccctcggtg agctcagcca tcggcgggga ggtgccccag cgctacgtgt 300

<210> 2003
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2003
caccagtggc tttagggcct gtcgcttacg cgatgcgggt agtattgttc ccgttgcgca 60
gttgaggaca cctaggttca cggtctgagt aacacctcat tacaccgaag cctgggcctg 120
tattcccaga gctttgggag gctgaggcga gaggatcact tgagcacagg agttcgagac 180
cagcctggac aacatagtga gacccccatc tctaaataaa aatagaccaa cgctaaagcc 240
tgtgctccag agcctccagg caattggatc agaagtcgca gctctggtgg gaggaaggcg 300

<210> 2004
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2004
ttttttttta gaacgtggtc ttgtctctat cctctggaca ctgcagcgta cgagtaacaa 60
caggtcttgc aggctaaata acttataaac aaaatttcct tcctgaggag ctaggtattc 120
cgatgtatct tcaacatagt cctgaagttc atatggcaat cgtccttttg gcttctgaaa 180
tgcagaaggc catccagatt tcggccaact agaggagtct gaaggaccag acaattgctc 240
agaaacagaa ggctgtttag aattttctaa attcattaag ggcaattctg gtacttttct 300

<210> 2005
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2005
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ctacttccga gtgcccttca tctatggcca caaatatgac tttacgtcca gtcggcatac 180
agtggtgcac ctcgcctgna tctgncactc attccactac atnaagcacc cggaataaag 240
cccgnctnnc ccaatcggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac 300

<210> 2006
<211> 299
<212> DNA
<213> Homo sapiens

<400> 2006
gcagaagctg cccgtgggca ccacggccac actgtacttc cgggacctgg gggcccagat 60
cagctgggtg acggtcttcc taacagagta cgcggggccc cttttcatct acctgctctt 120
ctacttccga gtgcccttca tctatggcca caaatatgac tttacgtcca gtcggcatac 180
agtggtgcac ctcgcctgca tctgtcactc attccactac atcaagcacc cggaataaag 240
cccgcctgcc ccagtcggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 299

<210> 2007
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2007
gttcgacgct ttgaaagatg atgacagtgg ggaccatgat cagaatgaag aaaacagcac 60
acagaaagat ggtgagaagg aaaaaacgga acgagacaag aatcagagca gtagcaagag 120
aaaggtggag cagttctgga ggttttatag ccacatggta cgtcctgggg acctgacagg 180
ccacagtgac ttccatctct tcaaagaagg aattaaaccc atgtgggagg atgatgcaaa 240
taaaaatggt ggcaagtgga ttattcggct gcggaagggc ttggcctccc gttgctggga 300

<210> 2008
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2008
cccagaggaa agccaggccc gtctggggcg gatcgtggac cgcatggacc gcgcggggga 60
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gcacatacgg gactcggtga gcgcggcctg ggacacgtac gacacggacc gcgacgggcg 180
tgtgggttgg gaggagctgc gcaacgccac ctatggccac tacgcgcccg gtgaagaatt 240
tcatgacgtg gaggatgcag agacctacaa aaagatgctg gctcgggacg agcggcgttt 300

<210> 2009
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2009
ctgagaaaat catagagatc ctggagagcg ggcatttgcg gaagctggac catatcagtg 60
agagcgtgcc tgtcttggag ctcttctcca acatctgggg agctgggacc aagactgccc 120
agatgtggta ccaacagggc ttccgaagtc tggaagacat ccgcagccag gcctccctga 180
caacccagca ggccatcggc ctgaagcatt acagtgactt cctggaacgt atgcccaggg 240
aggaggctac agagattgag cagacagtcc agaaagcagc ccaggccttt aactccgggc 300

<210> 2010
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2010
gctacaacca gcgcatgata gagcagctga aggtgcggca gcaacaggaa aaggcgcggc 60
tgcccaagat ccagaggagt gagggcaaga cgcgcatggc catgtacaag aagagcctcc 120
acatcaacgg cgggggcagc gcagctgagc agcgtgagaa gatcaagcag ttctcccagc 180
aggaggagaa gaggcagaag tcggagcggc tgcagcaaca gcagaaacac gagaaccaga 240
tgcgatgcgt gctggccccc gcacaggctc ctgtgtgcag ggactgattc ctcagcacac 300

<210> 2011
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2011
ggccgctgct tctttcccga gcttggaact tcgttatccg cgatgcgttt cctggcagct 60
acattcctgc tcctggcgct cagcaccgct gcccatggca tcctgatggg cgtcccagtt 120

ccctttccca ttcctgagcc tgatggttgt aagagtggaa ttaactgccc tatccaaaaa 180
gacaagacct atagctacct gaataaacta ccagtgaaaa gcgaatatcc ctctataaaa 240
ctggtggtgg agtggcaact tcaggatgac aaaaaccaaa gtctcttctg ctgggaaatc 300

<210> 2012
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2012
gcaactcacc agggtgtgct tgggggaggt gttgcagaaa attgacgtcc aggagtcctt 60
ctgtatggaa gaaaaacaga acaaattcca ggtgtaccag ctgcggtttc agttcctgcc 120
acatgcatat taccagcagg agaagtgcct gagacccgag gacatcctgc gcttcatgga 180
aacaagattc tttaaacttc tgatggaatc catcaaaaag aagaataata aagcatcagc 240
tttcaggaac gtaaacactc gaagagctac acagcgggat ctggacaacg ctggggagtt 300

<210> 2013
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2013
gcccgccact cgtatccccc ggccctgggc agccctggag ctctagccgg ggccggagtg 60
ggagcggcgg ggcccttgga gagacggggg gcgcaacccg gacgacactc tgtgaccggc 120
tacggggact gcgccgtggg cgcccggtac caggacgagc taacagcttt gcttcgcctg 180
acggtgggca ccggtgggcg agaagccgga gcccgcggag aaccctcggg gattgagccg 240
tcgggtctgc aggagccacc aggtcctttc gttccggagg ccgcccgggc ccggatgcgg 300

<210> 2014
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2014
gcaacagcaa aggagatcag ggatgaatat gtggagacgc tgagcaagat ttacctgtct 60
tactaccgct cttacctggg gcggctcatg aaggtgcagt atgaggaagt cgctgagaaa 120
gatgatctaa tgggtgtgga agatacagca aagaaaggat tcttctcaaa gccatcgctc 180
cgcagcagga acaccatttt caccctagga acccgcggct ctgtcatctc ccccactgaa 240
cttgaggccc ccatcctggt gcctcacaca gcgcagcgcg gagagcagag gtatccattt 300

<210> 2015
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2015
gccgccactc gtatcccccg gccctgggca gccctggagc tctagccggg gccggagtgg 60
gagcggcggg gcccttggag agacgggggg cgcaacccgg acgacactct gtgaccggct 120
acggggactg cgccgtgggc gcccggtacc aggacgagct aacagctttg cttcgcctga 180
cggtgggcac cggtgggcga gaagccggag cccgcggaga accctcgggg attgagccgt 240
cgggtctgca ggagccacca ggtcctttcg ttccggaggc cgcccgggcc cggatgcggg 300

<210> 2016
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2016
gctcttctct gtgcccttta tccgcacttc ccagctcaca gcactgacaa ccggtatcat 60
ctccaggctc tccggcacct ctatgtgctg gccgcggagc ccaggcttct agtgcctgtg 120
gatgtggaca caaacacgcc ctgctatgcc ctcttagaag ttacctacaa gggcactcag 180
tggtatgaac aaaccataga agaattgatg gctcctaccc ttcttccaga actccatctt 240
ttaaagcacg attaaagtaa aaggcccaag atactgggaa ctgctcatag atttaagcaa 300

<210> 2017
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2017
atgacctcca atgtggccag cgacgagatc gcacagcacg cgctgcagct gaggcaggaa 60
gctttggaga tgagccgtaa ccgtattgcc gaaaacctgg gggatgtcca gataagtgac 120
aagatcacca tctcaaagaa cttcaaggag aatgtgattc gccctatcct gaaagctcac 180
ttccggaggg atgagtttct gggacggatc aatgagatcg tctacttcct ccccttctgc 240
cactcggagc tcatccaact cgtcaacaag gaactaaact tctgggccaa gagagccaag 300

<210> 2018
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2018
aagatgcagg tgaacaggta gtatcttccc cagcagatgt tgctgaaaaa gctgacagaa 60
ttattacaat gctgcccacc agtatcaatg caatagaagc ttattccgga gcaaatggga 120
ttctaaaaaa agtgaagaag ggctcattat taatagattc cagcactatt gatcctgcag 180
tttcaaaaga attggccaaa gaagttgaga aaatgggagc agttttcatg gatgcccctg 240
tttctggtgg tgtaggagct gcacgatctg ggaacctcac gtttatggtg ggaggagttg 300

<210> 2019
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2019
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attcctttgg atgatattga atttgctaag ggtagaggaa catttccctg tgatatttct 120
gtccttgata ttcatcaaga tttagactgg aatcctaaag tttctaccct gaatgtctgg 180
cctctttata tctgtgatga tggtgcggtc atattttata gggataaaac agaagaatta 240
atggaattga cagatgagca aagaaatgaa ctgatgaaaa aagaaagcag tcgactccag 300

<210> 2020
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2020
attgaactct gaactttgga aacctgaatc cttcaggaaa gagtttggtg agcaggaagt 60
agacctagtt aattgtagga ccaatgaaat catcacagga gccacagtag gagacttctg 120
ggatggattt gaagatgttc caaatcgttt gaaaaatgaa aaagaaccaa tggtgttgaa 180
acttaaggac tggccaccag gagaagattt tagagatatg atgccttcca ggtttgatga 240
tctgatggcc aacattccac tgcccgagta cacaaggcga gatggcaaac tgaatttggc 300

<210> 2021

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2021
aactcctact gttgaataca tctgcaccca acagaatatt ttgttcatgt tattgaaagg 60
gtatgaatct ccagaaatag ctctaaattg tggaataatg ttaagagaat gcatcagaca 120
tgaaccactt gcaaaaatca ttttgtggtc ggaacagttt tatgatttct tcagatatgt 180
cgaaatgtca acatttgaca tagcttcaga tgcatttgcc acattcaagg atttacttac 240
aagacataaa ttgctcaggg cagaattttt ggaacagcat tatgatagat ttttcagtga 300

<210> 2022
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2022
tccaaaaaca atgggcccaa ggcaaaccag agccaaagag ttttaacttg aacccccttca 60
gtcaggatga acataaagct ctcaagttct tgaaaggatg agacacaaga ataagatggg 120
gtaccagtga ccagctcctc tacctggggt catggaggac cgaagaccct ccaaccttga 180
tgcctgtaag gacaggcgct cctgtaaggg atcaggtgta aagaatctgg ccatagctcc 240
tgtacaaagc ctctttgtct gaagtacttg ggtgctcttt gacggcagga gggaacacaa 300

<210> 2023
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 2023
ctgaggcagg agaatcactt gagcccagga ggtggaggtt tcagcgagct gagatcacac 60
cactgcactc cagccttggt gacagagtga gactctgtct caaaaaaaaa aangggantc 120
atttgggnnt tnggcaaaaa tnancntagg gantntnnca ngacccnaga nggaanccnt 180
gagngntcag nnccannntg gggnctttt nnnggtttnt taaangnncc gnnccttnan 240
ggngggnncc ncgnttngcn ttgggggtn tnagggnang nctgctttct ttttta 296

<210> 2024
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(253)
<223> n = A,T,C or G

<400> 2024
cacttgaacc cgggaagtgg aggttgcagt gagccaagag tacaccactg cactccagcc 60
tgggcaacag agcgagactc cgtcttaaaa aaaaaaaaaa naanccccct ttnanngncn 120
taatannccn anttngnggc agnnttgnan ngggaaaggc cgtttaaanc nntaanggtn 180
gaaaaaccnt naaanattnt ccanccnacc ccttngatnt tncanaccaa aaaannaatc 240
ccnaaacggg aaa 253

<210> 2025
<211> 294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

<400> 2025
gctacttggg aggctgagac aggagaatcg cttgaaccca ggaggccgag gttgcagtga 60
tctgagatcg tgcactccag cctgggggac agagtgacac tccgtctcaa aaaaaaaaaa 120
naaaagnncc nntttngggt tnttantttt ttccnaanaa ctgaacntat ttgnacnntt 180
nnatttttan aatgnttttt tngtaannta ancnccaaaa taattaannn cntttaaang 240
cctnnannaa tnncctgatt nnntggcnnn anccntttnn taaggggga tttt 294

<210> 2026
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2026
gctactcgaa aggctaagac tggaggatcg cttgagccaa tgagttggag gctgcagtga 60
gctataatca cgccactgca ctccagcctg ggctgcaggg tgaggtcctg tctctggaaa 120
aaaaaaaaag ggantaggta aanggnncan aggnnaantt ttnagngnct ngagnctttt 180
gnagcccntg nttacccaaa ncntttnngg cctantngna ccntcncaaa nagnntttcn 240
tgnantnacc aaatttnagg tnttcanaan tngactccnt aagngnncaa ntnggaaata 300

<210> 2027
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 2027
ctcagctctt ccggaggctg aggcaggaga atcgcttgaa cccaggaggc agaggttgca 60
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aaaaaaaaaa aaaaaaaaan tngcctttng gtnncntnat ttccnaaatt naannaannng 180
nccnntttg gnaaggggg ggnnaaannng naaanccctt tnttngtnng ttcctttnna 240
aaagggncnn tcncctttn aaanggncnt naagnccttt ttnanaaatg gtt 293

<210> 2028
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2028
atctgttact acttcagaat tgctggttga tgttaggccc ctcctatctg tgctctctca 60
gctacagttt cccgtttgag catattcatt ctttttttatt tttgctctga acaaaaatat 120
tagagttaca atattactat attccaggcc ttgctagaaa ctggggataa atctatgaat 180
atggtcgctt ccctggaaga cctcacagtc cagggaagcc aaaccctgca gacatgcagt 240
agacttagtg gtctctctta aggttgcttg ttgagttttg acattggaga ttatgtacag 300

<210> 2029
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2029
gtgagaacgg agatacggga aaacccttgg ctcatggaag catagccaac ataaaccttt 60
taagcaaacc agcgcagagt tccgtcatag tgcaccatca tcagaaacca gggctcctgg 120
tgttccagaa gttgccagag tttatgttac ttcagccact tggtggggaa agcttttgaa 180
atagatcata catgcatttg tttttaatca gagtgcgttg gccatgatgg ggttaattta 240
tactgagcac atggcaccca tatctggggt ttccctcttg gtcagggccc ccattggcca 300

<210> 2030
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 2030
gctcattcca gctggtctat cgtgggcctc agaaggtgaa gagggaccgt attctggggc 60
ccacgataga ccagctgtaa ctcattccag cctgtacctt ggatgagggg tagcctccca 120
ctgcatccca tcctgaatat cctttgcaac tccccaagag tgcttattta agtgctaata 180
cttttaagag aactgcgacg attaattgtg gatctccccc tgcccattgc ctgattgagg 240
ggcaccacta ctccancccn taaggaaang ggggcanttc annngcccca agaggga 297

<210> 2031
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2031
gcgggaatca atctgcactg acaccgcggc aggaactgaa gctgcccagg caagtgagga 60
accaggagcc gtcactgagt gtggctgggc tacatcatag ctcatcacgg agctacgact 120
ttgggtactg cggacagacc tggataggcc cagcattcgt tctgaagatc acagttcaca 180
gaagcttttg cttcgtaaag ataatccaaa ggacctgaga cccgcttttc cttttccctt 240
cattcccttg agagtcagcc ataaacggaa tacctgctag gttccaggaa tgagctcacc 300

<210> 2032
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2032
gccttgaggg aattagacag attttctgtt ttgaatagcc aacacatgtt tgaagtacta 60
gctgccatga atcaccgatc tcttatactc ctggatgaat gcagtaaggt ggtcctagat 120

aatatccatg ggtgtccttt aagaataatg atcaacatat tgcagtcctg caaagacctc 180
cagtaccata atttggatct cttcaaggga cttgcagatt atgtggctgc aactttcgac 240
atctggaagt tcagaaaagt tctttttatc ctcattttat ttgaaaacct tggctttcga 300

<210> 2033
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2033
ggcaagtgct ccctaaaatg cacatcgaat tctgttttct gggccttttc tccaatggtg 60
ctaggagata ccgttgattt ctgcagctct tctcagtggt gggaagaagt ctttgggatt 120
gttgagcaag gggcagctgg accatccact aaatttttt gttcaagaca cattagagac 180
cctcctgtat atctagtaag tcataataaa ggtgcttggg aaagccttaa atttgaagac 240
acatggaggc ggtagaaaat taaacttgta agaggagaaa aacatgccat taggtaacgc 300

<210> 2034
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2034
gtgtgcttgg tcttccaccc cagccccaga cactgcttca aatagcacca accagatggg 60
agtccacatc tgtggtggca aaatgctgac attttcccaa gaggtacaca aggtgggaga 120
ggcctgctgt agcagaggtg tgtgttagag aaagcagggg cctgatttag tagcagagaa 180
ctgggtgaga aaaatggcca gagaaagtga cctgccagct accagtgttt ccgaaaatga 240
gggtgggatg ggcccatttg cgtnattccc nacagtcatc cccatagccc tctgaggagg 300

<210> 2035
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2035
aattttgcca tcttttatca ggctttctgt gtcgaggacg ctacccacat agagtagaag 60
ctaaagggaa gggatgtgaa gtgacctcac cctcagcttc tagctcatgg tgtcaaggct 120
tgtgtgatct tagacacgtc tgcctcttct gagcctgttt cttcatctgt aaaacaggga 180
tgggaggttg tggtaaagat tccacagcaa cactgcacac gcatgaagta cctgggccag 240
ggatgactcg gcagacctca gtttccctct gcctcctgcc tagagctgtt agcaagcatc 300

<210> 2036
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2036
aatgtctctt tcaaagacac tcagggctga atcagcctta ggatgctaag caaatcattc 60
cgtaggatag gacacagtca catagaagct acagctggga aaggcagaat tcatagtaga 120
gagtgctggt ccacctagag gccagcccaa gaggccagag gtggccatcc ccaaaagaga 180
gatggagaga gtatttgctt tttttcctca gatgttttcc caaatcccca ggaagcccag 240
tatctctgcc ttttcagtga agcctctgtc ttctagagta tgcctttccc ttcatttgaa 300

<210> 2037
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2037
tcttcattca agttgtagat gaaaaggcag aatggagtgg attcagagcc gtgtgacgtg 60
ccgtcagagg cttcctgttc ttcctcctca cttcagcgca aagtgccaga cccaaaaaac 120
aggatttcta cctgtctgtg tgtgtcgtcc ggggctgttt cttcatcttc ccatgtcttg 180
attttcacca aaaaaggagg ctgttaatac ttgccttctt cacttttaca tagagatatc 240
ataaagatta tgaactaaag cagcaaagta cattgccttc caaggagaaa gtgttccttg 300

<210> 2038
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2038
gtaaaacacc ccctacagtt ccaattctgg gcctgtcttc tatctatctt tgcccttctg 60
gtccgttccc tgttctgagc cccagggaac ttagggctga aagtcacccc cgaagcctca 120
gaccagatcg ggaggccaca cgcagctcat ggggacagag ggcccagggt gacggtccac 180
tcatgagaag tgctatgtga ctccagggag tctgtccctc tccgggctcc aatccccagc 240
ccaagctcag atgacccagc ctgtgtccct ttagcggccg aggagccacc acctgttcgg 300

<210> 2039
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(196)
<223> n = A,T,C or G

<400> 2039
gccaccttct aagcaagtga tggcctggct ggttcagtac cctttgcacc ctgctttaca 60
anngaacttn gtncactgtt tnnnaggtnn atanctgagt nnacacactt ntgcattnga 120
taaatggtac tgngattttc tngnaangaa naattnntgt tgnnaggnaa tggcatcana 180
ancttgnana anaggt 196

<210> 2040
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 2040
ggaaggcact ggtccgagaa caccggattc actgcgtgct gtcctcactt gttctacaat 60
gagtgccaaa tctgctatca gcatggaaat tttngcacct ctngatgann ggatgctngn 120
anccnnccna nagacgnann cnatctcaan agctccctng aatngntttg cctnnncnng 180
tncannantn ccnctaacag aggacctggc ncaccttanc ngnnacattc aaatgactnn 240
angacatcan catcacannc tncagttggc acttatctgn gtaact 286

<210> 2041
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2041
ctcagccacc gtctccttac ctgactcctc tgggaaagag tttccctagg ttaagccata 60
cagggatagg gtaggagatg ccatttggat ctaggagcag agggcagagc ctcagcagga 120
agagtgtctc tttgagaagg agacacagtg gagcaggtgt gtaggttcac agggccagct 180
atgggtagag tcgggtgtac atttttagaa gccacaattc ccaaaaatct cctgactata 240
acatcagtgc acagagccag tcaaatggag gaggagtggg tccaggcaat tcaggaagaa 300

<210> 2042
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2042
gcatccgtgg cctcggcctg gagagaaacc aaccagcttt gctgtctggc ttgcggttcc 60
gctcctctgt gagggggcg agattgcccg ttctcctcga agaatgccgt tacttgaggc 120
ccaaaatatt agaagtctta agaactcagg acaagcagca gaaatacatg caacatggtg 180
actggaaccc taaggactct gcaatatgaa taattcccta gagaacacca tctcctttga 240
agagtacatc cgagtaaagg cacggtctgt cccgcaacac aggatgaagg aatttctgga 300

<210> 2043
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2043
gcttgttctg gggaaagctc atataagtat ggattttatt cctcaactag taggatacca 60
atactggtat tgaaacttgg ggaaaataac tggagatacc agtgcagcta tttaaagctg 120
tagcaagggc tgcaatcttg cggagatttt aaagagaagt tttaaagttt ctaatactga 180
tgcctctttt tggtaaatac aagttttata aatcctgccc tgggatcctg attccccatt 240
aatcaagatt tgtcagactt caccttctat aattagaaaa cacagttata agaacagtca 300

<210> 2044
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2044
gtgcatcaga gccaggaggt tccagacttg tcactgtcac gtcaatcttg taactttcca 60
acaggtcctc cttcccagaa accaaatcag attttctact tgaagcagta ccaagcctct 120
ggatagagct tcgagggaag gattttgggg tcatgggttt tttccaggga ggctcgaaaa 180
aagcttccct tgcagtttga gtttgaaggc tgtagctcag tggcagatca ggacacctag 240
gaacatttcc aaggaagtag ccatttctct cccagccttg aaccctgatc tctgggttct 300

<210> 2045
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2045
gcaacctaaa gtaaatctca catcttggca atcgttttta aatatgatcg tcccatcttg 60
atgtgctgct cctgctgtgg aaggtatccc tgggttttag gcaagcatat gtgttcttta 120

ctatggctcc agatcccagc atatttgaag tcctgagtca acctgctctc ctagacaagc 180
agacattaag tatgtcgctt gggctcttaa gtgcgttctc ctgactttta cccatctttg 240
tggcagtaaa tgcatacgtg tcactgtata tgcggactag atacctcagg tcccagcgcc 300

<210> 2046
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2046
ctgatagcga cgcccgttgt attcagcgct ctcccccggc tgcaccttgg aattgccgaa 60
gaagcttttt ttaaactcca aatgggccgg gttggcgctg cagctctggg attcattcat 120
tcatatagct cgtatttatt gagcacctac catatgcctg gaacggtgct agggaaacag 180
cagtgttaaa caggtgaagt cctgcccgca tgaagtttta cattgtagtt caggacacaa 240
taagcaggtt gcagagcctg aggcctgtga tcagatgtac gagagcttaa cgcgactcca 300

<210> 2047
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2047
gcggagcttg cagtgagcag agatcgcacc actgcactcc agcctgggtg acagagcgag 60
actccatctc gaaacaaaca caaaaaaaag tatcaaagac agaaagtgga agttacaagg 120
ctttttaagg ccttatcttg gaagtcacag caacatttat tttgcattcc attggtcaaa 180
ctcaagtcct aacaggccta agggggtcaa gtaaaaggtg ggactcacag gaagttccat 240
atacattaca gcttcacttg cagtacagag gggaagggaa atcctactgg gacagaacct 300

<210> 2048
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2048
aaacgaccac ctttacgaga attctttgtc gatgactttg aagaattatt agaaggtgag 60
agaactcttt accacacgtt tcttccagat gctcctatgg tcccgtaaac aatgatattt 120
ttttctgcaa ggctatttta ctttttaaga gcagtaatcg tggcatttgc cgcatgatgg 180
gaacccaggt agggagcggg tgatgttccc aggcagcctt ggtgtcggca ggtctctaaa 240
cctggttgtt agtcgtcctc tgtgggagtt gattttgttc tgtgacccag gtcaggtctc 300

<210> 2049
<211> 246
<212> DNA
<213> Homo sapiens

<400> 2049
ggcacatctt ctactagcta acttggtcct tttttatgaa aaaataaaac ccttgcgtag 60
ttctccctca ggggatgcct aggattttgg atgagaacgt attggctcaa tgtgagtggg 120
gcagtggcag gcatccattt ccctttcccc cattctgtca caggtgccca tctgcctggc 180
agttcaatcc agggctcatg ttggagactc cagagcccct tccttgctgg tgcctgcctg 240
aggcat 246

<210> 2050
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2050
acactgggct caggggctga gccattgttg ggtgctatta cttgtgttgg gaaccaataa 60
ggaacagaaa acaaacaaaa acactaaacc agagaagcgg gcttattgaa tactttgcac 120
ctaagaagaa ttaagaggaa aaggaggagg ttagagttgg tgcatctgct cctccggtgt 180
ctgagtgtga taagaaagat agatgttaga ggtagcagaa ttgtgttgca agaattaaag 240
ccaccagcag atgagacttg gaccctaaac aattccccag gagaaacctg tgaaaaattt 300

<210> 2051
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2051
gaaaaggccc cagaatgggc tggcttgaac tggaaaaaca cactttctca tccctttgg 60
accacgagct tcttgagagc aaagcatgtg tttgatattc ctttgctcac cctcaggcct 120
tgtttggcaa attgcctggg atacagaaaa taaggacaag gtctgggtgt agtggcttat 180
gcctgtaatc ccagcacttt gggtgaccaa ggcaggagga tctcttgagg ccaggagttg 240
cagaccagcc tgggtaacat agtgagacct tgtctctgca acaaaattta aaaattagcc 300

<210> 2052
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2052
ctacgatgac cccctcttca ggctgccatt tggtagaggg caagggagtg gctagccatc 60
gagtaagacc atgctttgca cccaccatca gcaaggctca agatagtgcc tgcgtcctca 120
gaataagcct tcccttctgc aggtatctca tctccatctg tgggaaccag gtatgaggct 180
ctgaacagtt cctgctctgg caagacacct ccacatcttt ctccctcaaa cattcatagc 240
ctctctgcca ttttatgctt ctggtacacc agaaataata tcacaatgcc ctgcatcact 300

<210> 2053
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2053
gggaaggtct ggctccagct tgagcccact cacaggatgt caggggggaag tgtgactaag 60
gtcacggcca cgccacgtgg tgggccagct ggatccagag caggggccgt tgtggccaca 120
catcctgagt ttccatggtc taatgcagtg ggcttgaaaa aaaagggtgg atgcaggatg 180
ctggctggga ctgtggagtg cgtgggcagt aagtcttaag tgacagtggg tggagattac 240
agcatttcat ctgcttttcc tttgacacct tttaaagata caacccacag ttttcaaggg 300

<210> 2054
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

<400> 2054
cacaaagcca cagacacgcg aacgtccaag aagttcaaat gtgacaaagg acatcttgtg 60
aagtcagaat tacagaagct tgtccctaag aatgacagcg cttctttgcc aaaagtgaca 120

cctgagaccc cttgtgaaaa tgagtttgct gaaggcagtg ccttgcttcc aggcagcgag 180
gctggcgttt ctgtgcagca gggggctgca ngtnttnctn ttggttgctg natnagttgt 240
tngtntnttc atnnttttan ttctanatta gctttttntc ttgntntagt gtt 293

<210> 2055
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2055
caaaggattg agagagaaaa cttggcttta ttgaaaaggc ttgaggccgt gaaaccaaca 60
gttggtatga aacgttcaga acaactgatg gactatcatc gcaatatggg ctatctcaac 120
tcatcaccat tgtcaagacg ggccagatcc actcttggcc aatatagccc attaagagct 180
tccaggacat ccagtgctac gagtggtctc agttgtagga gtgagcgatc agcggttgac 240
ccctccagtg gccaccctcg aagaagacct aaacccccta atgtccgtac agcttggtta 300

<210> 2056
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2056
ccttgctcag gaggaggcgt ttggcaagga catttcacat ggtttgtggg tgaatagttt 60
cacaccagag tgggatcctc tattgcatgt actcgactag cttttcattc ttatcacact 120
tcccttccta taaagttacg tatcttttaa agggaaattt aatacccacc ttcgctttct 180
gtgcggcctt gtgaaaatca ggcaataaca aggacagcct tattgccagt gtatgaccag 240
agcatctaga tggcactact agtggaatgt catcttgtct accattcatt cattcattca 300

<210> 2057
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2057
cctacctcac caggttgtcg tggggagtga acaaggtgag tggccctcac ctacagactc 60
aacatatggc ctttggctct tcccacttcc aagagtcttg gaagggatgg gtcgagcaag 120
cagaggaaag gaagatgtga gttcccaaaa tgctcctcac ctttttcttc tgagtgggct 180
ccttctcact ggcattggag ggcttgcggc gcagcatggt cctccaccct gggagactcc 240
gtccctgctc tcctaggtgt caagatgcag aggcctcttg cttagcctca ccagaactgc 300

<210> 2058
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2058
acaagaggag gcttatcggg aggaacagct gattaaccgg ctgatgcggc agtcccagca 60
ggagcgcagg attgccgtgc agctcatgca tgttcggcat gaaaaggaag ttttatggca 120
aaacagaatt ttcagagaaa aacaacatga ggaaagacga cttaaagatt tccaggatgc 180
tcttgatcga gaagcggctt tggcaaaaca agccaagatt gactttgaag aacaattcct 240
taaagaaaag agatttcatg atcagattgc tgtggaaaga gctcaagctc gttatgaaaa 300

<210> 2059
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 2059
attcaaagta catttgacaa cccactgcaa gttgtggcat acatgggtgc catgaaccat 60
gacaccaact acagctttca ggttcaatgt ggcttaattg tggtggccta caaagatgga 120
tcacctgccc acccacattt catggatgca gagctctgtt cccagtactg gaccaagtgg 180
cttcttcgac tagaagaata tacggaaaag annangaacc agaatattca gaaaccagaa 240
tattcagaat ngggancaag ttgctatttg ggaacattca gcaccttctc acagtt 296

<210> 2060
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2060
aagggaagga ggctgctggg tagcaaataa gccccttctt ttcttggtga gttgatgacc 60
tccaatagct cccagtgtca tgggtaccca gtacgcatta gctggtgttg ggttgattga 120
gacctggggc agttcctggg gcaagaagcc agatgggaga tgagatagaa agtgttagga 180
gttatcctct ttgcctggcc tttgagaata acttactgtg tgactttggg caagttcctt 240
ccccactctg ggcctcagtt tctcacttgg gaaagcaagg agtttgacca gatgatcaca 300

<210> 2061
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2061
agtgactact tagaagatgc tgtccccacc ttcgcccccc ccctctagtt gcccaaatgt 60
cttacctccc ccagcttcac tcgggctagt ggaggtcttc ttagacttct ttcaaggcgg 120
aggatttaga gtctggggtg aagtggcggt gatggatggc tggggacgtg gggctgctga 180
ctcaatggtg atacatcaag cagttaatta agggacaagt tatcttctaa gtgggaggta 240
aaggattttc tggtcctttg ttcttaatgc tcatattaat gccattttcc ctcatggaga 300

<210> 2062
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2062
gtgcaaccga tgggctccag acatctactg ccctcgagag accagatact gctacactca 60
gcacacaatg gaagtcacag gaaacagtat ctcagtcacc aaacgctgtg tcccactgga 120
agagtgctta tccactggct gcagagactc cgagcatgaa ggccacaagg tctgcacttc 180
ttgttgtgaa ggatatatct gtaacttgcc actgccccga aatgaaactg atgccacatt 240
tgccacgacg tcacctataa atcagactaa tgggcaccca cgctgtattg tcagtgatag 300

<210> 2063
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2063
gctgcgcggc ggggatgtgt ggctggacag ctgccggttt gctgacaatg gcattggcct 60
gaccctggcc agtggtggaa ccttcccgta tgacgacggc tccaagcaag agataaagaa 120

cagcttgttt gttggcgaga gtggcaacgt ggggacggaa atgatggaca ataggatctg 180
gggccctggc ggcttggacc atagcggaag gaccctccct ataggccaga attttccaat 240
tagaggaatt cagttatatg atggccccat caacatccaa aactgcactt tccgaaagtt 300

<210> 2064
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2064
gagcgacgaa cttctgagac aggtgtgggt gcgagggtcg ggagggtcat gggattggga 60
ccgaggtgtg aggagggaat ctgcaattcc ttgctacaca gagcgctggc aacttctgac 120
aggctgtttc tggggtatgg gctgcctcgg gttgttgctg ttacaaggaa agaaaagagt 180
tcccctgccc accgcctccc agccactggg ctacctcctg gcaggaaatt tgcaaactga 240
gtttaacaag ttaggatcag cagagggtag aggagggccc tggcagatgt ggggtctaga 300

<210> 2065
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2065
ccgtgcctcg ctttccctgt cccccgccct atggacaccc ctggctcagg ccagtgtgct 60
tgtcccagca tcgcgctcat ctcctgtttt tatttgatgt tacagatttc atttcattag 120
gaatgagtgt ttcctccccg acttttgcct gcattctttt ccagctcctc cctggaaaag 180
ggcaggggcg gacactttcc cagcctccca ccgtgctctg ttcctagtgg cacctgcccc 240
agggtctggg cccctaggga tgcgtcctct accctggaga ctgggatctt cttaaatccc 300

<210> 2066
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2066
tgggcatctt cagcctggtg acggggaaga gccctctgtt tgcagctcat ggaggaagca 60
gcagggaaaa cctggcgctg caaaatgtgc aggctcgaat acggatggtc ctcgcctatc 120
tgtttgctca gttgagcctc tggtctcggg gtgtccacgg tgggctcctc gtgctgggat 180
ccgccaacgt ggatgagagt ctcctgggct acctgaccaa gtacgactgc tccagtgcgg 240
acatcaaccc cataggcggg atcagcaaga cggacctcag ggccttcgtc cagttctgca 300

<210> 2067
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2067
acattaggta tgtagccctg acatcactgc ttcgactggt gcagtctgat cacagtgctg 60
tgcagcggca tcggcccact gtggtggaat gtctacggga aactgatgcc tccctcagcc 120
ggagagccct ggaactaagc ctggctctgg taaatagctc caatgtgcga gccatgatgc 180
aagagctgca ggcctttctg gagtcctgcc ctcctgacct acgggctgac tgtgcctcag 240
gcatcctgct ggctgcagag aggtttgctc caaccaaacg ctggcacata gacaccatcc 300

<210> 2068
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2068
gtgcaggctg gttacttaca gttcactttc cctctttgaa gccccattta caataggggt 60
tggtatcctt gagaccccac ctgcttaggc tccagatgtc accagaattt cacatcagct 120
ttatttcctg gattggtaaa tataacccca tgataaaagt ggctctgagt gttgggttta 180
cctcttggac ttcctgtcct caccaatttt tgaccgaaaa ttcaacccta tgttgttagc 240
tctttgaatt acctattctg tcctcattag aagagtgcct ccagcattta ttgcctaaac 300

<210> 2069
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2069
agctgggggt gactacagct cacctgcagc tggtgagcaa ctcaaagcag agacccaggt 60
gagccgggcc tggacccctg agccaaggaa actgtgagat aacaaatgtg tgttgtaagc 120
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<210> 2070
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<212> DNA
<213> Homo sapiens

<400> 2070
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tgattcttta ctatagtact atctgagttg ttcacagtgg tatggtgatc catactctga 240
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<210> 2071
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2071
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cagttggctg ggtatattgt ttttgctgaa attattactc taggaggtaa atctaggctt 180
tatttactac tttgggaaag tacatttaaa ggccatgaat cagaaactag gttacaaacg 240
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<210> 2072
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2072
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gctgaaatgt gggctcataa aaatatgtgg tgcaggtagc ctatggagat tggatgtggc 240
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<210> 2073

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2073
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<210> 2074
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2074
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<210> 2075
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2075
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<210> 2076
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2076
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<210> 2077
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2077
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ctttcacatg gctgagagcc ccagccctgt ggatgagctg tcctgagtgg gcactcagta 240
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<210> 2078
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2078
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<210> 2079
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2079
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<210> 2080
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2080
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agaacccagg aagaaaattc tgcctcttta atacgttcca atatggacgt tttccatata 120
gatacctatc tatatagata gatgctctgg gatctgacgg tcctggacac ctgtatggct 180
gtgtgctgtg gtctttgcct agcctgcggt tcacttttgc tctggccacc acctcccctc 240
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<210> 2081
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2081
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ttagctttcc ctcctcccag tttctctcca gcgcagcagg gcacctctag cccagaaaaa 120
gaaaactgac tttctcttat ttctgttttc tgctgctgct aatctcctcc tgaagggttg 180
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tgtagtcact gcagctatgc aggctctgtg ctagccctgg aaaggcctgg acgttcaggt 300

<210> 2082
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2082
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aagtgacagg actttcattg ttcttggctg aggagaagcg ggagtggctg atggaagcac 180
ctaaatgatg cctttgtctg tgggaaggca aatgatgccc cagagctcta accaaaggtt 240
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<210> 2083
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2083
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ccttctcatt gagagagaga aagatgccca gagttaaaat aggaggtgct tgggtatttt 120
gttgaacttc acaagttaaa ctggcgaatg gcgtccatca gctgttattc agtccttgaa 180
cagagcagat atgtttgtgc gaggacaaag aagatgcctc aaagacaaag aagaagatgc 240
ctcgtcgtcc cctgagctcc cacacggcat ctgcacatca ccagctcagc atttagcaca 300

<210> 2084
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2084
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<210> 2085
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2085
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tgctctgtca tccaggctgg agtacaatgg cgtgatcaca gctcactgca gcctcaaatt 300

<210> 2086
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2086
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gtcacagctg aatggaccaa ggcagatgtg ctatcaagga cagccaatca caagtgagca 300

<210> 2087

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2087
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gttatggtca tttcatcctc acagccctat agctttagta ctatgactgt ctccctttta 120
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ggcagagttg ggattcagat cttgccattg tgcagaaggg gtgaacaggt gggttctaga 240
gtccttaaaa ggtattgaag ggttttgaag caaggggacg aaatccttgg accaacattc 300

<210> 2088
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2088
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aagcggcaaa tggacactca agaaccaaga tgatatcaac ctccatcaag acagctcgga 180
aaagtaaaag ggcatcaggg ctgaggataa atgattatga taaccagtgt gatgttgttt 240
atatcagtca accagtatta aaggcctgcc tgatatacaa ccctcgaatg caacacagtg 300

<210> 2089
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2089
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aaaaaaaaga aagaaagaaa attacctgga attcaatatt gccatcggct gatttaattt 120
ctaatatgaa gaaaggggca gtgtgatgtg ccatggagca tccacaacct gccatttcag 180
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<210> 2090
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2090
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gatgcgtccc gctagcacct gcagagacag ccctgttggt aatgttggcc acagtgccag 300

<210> 2091
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2091
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tgaggaagga acctaggaag caagcaggaa gtctggcctc gctctcggat gcacccccct 240
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<210> 2092
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 2092
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agctgcagcc ctggangagg gggcgggtcg aggctgtgtg gngattgggg tctccgcccc 180
cacgccctnc ccnggcangg nctggagctg gncngangcc aantgccttt nagtcnnttn 240
tgcnaanccc tctngggtcc ngacgctntn cnnttggcc 279

<210> 2093
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2093
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gcacctcgat ccgagtctca gcacctagac taattaggat gacctcagag atgctgaaga 180
gtacctttgg tcagcctcag tctttttgtt tttggttttt tttgagactg tgtctcactc 240
cgtcacccag gctggagagc agtggtgcga tctcagctca ctgcagcctc ancctctcag 300

<210> 2094
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2094
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agtgaatggt agagcatcct cactcttctc tctgccagca agcacctttg gggaagtcct 120
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tctggggtca gtcaggggtt aacagtcgct cctgcttgcc tgattgacac agtaataaag 300

<210> 2095
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(221)
<223> n = A,T,C or G

<400> 2095
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tagcccctgc cacccactgc tgcagaccca cccactctca gcttagctca aaggctgttc 180
tctaactcat ttctgagaat aattgnangg ctgnagtngc a 221

<210> 2096
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2096
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ggcattttga gggcatgagg taggcgttac agtgataaga tacacagggc tctaaaccac 240
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<210> 2097
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2097
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<210> 2098
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2098
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gcttaaacct cctgtcctta aatgcaagaa atgttttcta tcgagccctg gacaggtgtc 240
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<210> 2099
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2099
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<210> 2100
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2100
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gccagtgtcc tctaaatatt atcatttatt gtgttattgc agctggggag ggagaaaatg 180
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<210> 2101
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2101
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caaaactaac ccagtatgtg gagacctatg tcagtctatt tatttttcta tctctgtggg 180
gctggagaag gaaataaaca taaaactaaa gatttaaaga ttacttttga tttcacttag 240
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<210> 2102
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2102
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gaggaaactt cctcccctca gggacccaca cttggggttc ctcgagtgtg tagtccagag 240
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<210> 2103
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2103
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tatggccgag tttccaagct gtcatccaat ggaagtagaa tcttctcttt gaatcatatg 240
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<210> 2104
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2104
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aaatttcttc aggattatga tattcgaact ggcaacacca gggaagcttt gagtccttgt 120

ccaagtactg taagtaccaa gtctcagcca ggcagcagtg cttcttctag ttctggagtt 180
aaaatgacca gctttgctga acaaaaattc aggaaactga atcataccga tggaaaaagt 240
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<210> 2105
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2105
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ggcaatcttt taggtctctc gggaaggccc cagcctccct ccccactgaa gaaaagaagt 180
tggtaaccac agagcaaagt ccctgggccc tgggaaaagc ctcatcacgg gcagggctct 240
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<210> 2106
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2106
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ttggtgatgg gtgtggaaaa ttctgcaaaa gaaggtgatc ctggaacaat attcttcttc 180
agggaaggag ctgctgtgtt ttggaatgtg aaagacaaaa ctatgaagca tgtgatgaaa 240
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<210> 2107
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2107
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cgctgactca tgcaggttga ggttttgtct cattcccagg aatgcttgga ctcccagagg 180
cagtgaagcc acacatttta gcagaattac ctcagcagtg tggtgcatga tcatgaactt 240
caagtttacc tacaaggaag atttcattgt ccttctgtca ctagccaaac acttcacagc 300

<210> 2108
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2108
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gtcaagaagg gaaactgggt tcttccagaa tacttttgaa aagttctagg gaatttttca 120
aaggctattt tgttaaggat attgagtagt gcttagaaga tacagtctcc actttgaggg 180
cgcatgaacc ctctaggctg ttgatgagag agtctgagca cttcccaggt ttttctgcat 240
ctagacatga gtaaatggtg aagaacactt ggttttgttt tcaggttata tctgtgtcct 300

<210> 2109
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2109
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aatgttgtat acatgacctt ccccgaaggg acacaagtgt ttctggtgct ttccaatggg 120
aatgtgggaa gggacccagg tgggccttgc cactttggga ttgctgtccc tgaagaaatc 180
ccttagcctg atagaaacgt aattgttggg agcaatgaac tgtgttgggg gagaaaacat 240
aacttggcct ttcttaagct gtatggctca gtggtctgag tttctgtaga tctcttattg 300

<210> 2110
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2110
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tggtgattga attgagcagg gcagtgagag gattcccagg tttctgactg aggtgtctaa 120
gtggggatgg tgatgaaagg gggaatattg ggagaggatc acgtttggag ggagactaag 180
gcaccatcag tattctagag attagagggc tgtgagagaa ttgtgatagg agggatttac 240
tctttggcag atatccaagc gtggaaggcc tgtttgatgg actgtccttg ataatcacag 300

<210> 2111
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2111
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tagatgaaat cagtaagaaa gaatgtggtg tgtcagttca agagttctgt tatcttgaga 120
gccctggtga ccttagcttg ctattcaatt gagccaaatc tgtattttct gaaggcagaa 180
gatgaaagca aatgatagat gcttagattt gaggaggtta tttggtgctg ttgatatttt 240
taaactttaa aaaggcatta aaagatctaa tttaaattgc acatgtaaat gtggctgtgc 300

<210> 2112
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2112
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accagcaaaa atactcctca catgtcctta gatagttgca aatgctccag agaggggtaa 120
tggcactgct cctacttgag aaccactggc tcctgtaact gcttggccta gttctaactt 180
ctaaaatgtt ctcctttcct gagagtataa tgaagagcca gatactttgt gatctttcta 240
tcattcctct ggcttcttgg acttccttaa tgattgagct cagatgctgg agtcacatcg 300

<210> 2113
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2113
ccccacccat tagttaggtg ggcctgccca acaccttcct gggttcacat ccggccagac 60
aagaaagaag ccaaaaaact ttccgtctac cactgcgcct cctcatgccc accccatcct 120
attagcctaa aatggaacgg gctaattagt ttatttgtat agggaggggt ttcagctgcc 180
tggacaaaac caggagtcca ctgtccaagc ttcttctgtt ttcctgagct cagaagaaaa 240
aaagtgtgtt agactaagat aataccgcct tttgaatatc tcggcttcat atttgcctcc 300

<210> 2114

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2114
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tcatgccgcc cttgtgcgtg gtccccagct gttggtgtca gggcaaggac aaagacccgg 120
gacacctcaa gtctgagtcc tggtgattgc caggccctgg ggaatggggg aagatgtggt 180
cagaggctct tcttgtgacc ggggcaggat gtgtcttctg ctggaccggc acctttttgtt 240
tgtcccattg gtggcagatg tgagcgacat caggcgcttc ctcagtgcat ttcacgagcc 300

<210> 2115
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2115
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ggagtgtctg gtgctcctgg gtgagagaga gggccagttg gaaaagcctg caggcccagc 120
cctggggcag aactgagtgt ggcgggtgct gggcacagga tattccccca ggggcttagc 180
ttcatgcatt caggcttacc ttgaggctcc aagcttattg gtggcataag ctctgcagat 240
ccctcacctg ccatcagcct catctgaatc tttgtctttc ctcagataag cccttaggca 300

<210> 2116
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2116
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ctccttcagt cccagaagac aagtctcacc aacccaggga gtcaaggacc agcaaaccaa 120
agtggataat ggacttttc attcctgttt ttcttggcag gagagaagca aggccactaa 180
aagaggagat ggtggagacg gaggctcagc agtggtcttg aggggtaaag gacttagatg 240
cccagatgaa gagggaaagc tgacatctgc agggaaccca ctttgaggct gaggccatgg 300

<210> 2117
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2117
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tggagaaaga acagtgagtg gaaggaaaac aggtctgtgc tgtcctcaag catagaggtc 120
tttctatggc aggcacccgg ggcagccaaa aggacactgt ccacagccag gccagagtct 180
agctgtcaca cacataggca ggtgtgttgc atacctcagg catgcgttca ggagttgtaa 240
tacttaagtg aatttgtttt tttacagcaa caacctatag ttccatttaa aaagggatag 300

<210> 2118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2118
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caatactcct tctggtgtat tttatccatt atttcacttg ctggtcgtca tttcacagcc 120
agctttgaca tgcccgtgag gacaggagcc gccgcttcag ttgtcactgc agagccatcg 180

tatgtcagtt gcaatttcca tctgaagcta tgtctttgac ttcactttaa gcagaaaatt 240
ttgtaccctg gtggtcgagt cttcccttaa aaattgttaa atcatttggc tttaatggtt 300

<210> 2119
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2119
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cgaggcccag gcatgcttgg aggaaaggtc accgtggctg taaagtgcta gccagggcgg 120
gagccgggct tgtgtttctc gcacagtctc agccatctgt cagctgcttc aaagggcatt 180
caaaagtcca ggttttgatt gtttcttgga ttagtctgag tcgtgtggcc tgccttatcc 240
accctggaaa gttctaggca attaatattt atgtggcatt tctgaggttt tgatgccccg 300

<210> 2120
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2120
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ggccaagtgg gcagcagagt ccaagctcga cccaaatgac cccaacaatg ccccttttgat 120
gcagcttatc tcggttgcta ccagtggtga atcctatgtc cctgatttct ttagactgga 180
gcagctgcaa caggagttta actttgtttc agatcaagaa ttaaatagat ccaaacgatt 240
taggcttctt catcttagaa gccaagaggt gccagaattc cgaaattata agcaagttcc 300

<210> 2121
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2121
gaaaccccca gctttagtta ggtctacttt catgattttt cctggcatac tgaaaaatag 60
gctttctcta aacataagga agaatcgagg tgaaatgtga acctctgcca gtatagttat 120
tggtgatgct cttgcattta gtcataattt ggaagatggc aggctgaccc aaatgagcat 180
ttcatcactc tgcttaattt acttagagtg atttgtgaat cctgtccttg tacacaggcg 240
tacctcagat aattcgagtt ctaatccaga ccaccgcagt aaaataagta ttgcagtaaa 300

<210> 2122
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2122
gttcagccca agacgttcca ttgatccaga tggtgttaga gcacatttgg tcaggttgcc 60
ttcatgggat atttgacaag ctgcaaaccc gagggcatgc tggtgcccga gggcgcctcc 120
gtgctgacct cagcatgtgc agcaagagcc agggcacagg ggcggcctgg cccatttcag 180
gcaggtgctc tgtgggaggg tggctgtctc cactgacaac ccagggaggt cagcaaggag 240
gagccctgag gtggactcga aagctgtggg agctgatggc cctcctggtc tctgccacag 300

<210> 2123
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2123
ccaagcagag ccttggcatt atagatacag gtttctaaaa gctgatagct tggctgccag 60
cctcatgggc tggatcaccc acaacttcat gggcctcttc tagtggaagc tggagcattt 120
ccttggtgaa ttctttttccc tgaggggcaa gatccatgcc acacagctct ctgaccctgt 180
gtgtcacaac ccttatggtc catgagcaaa atggttgcta gtagtcattt gggcatttct 240
cttctgtttt cttatgtgtg taataagata tacaaagtcg ggcttgaaga ttagaaattg 300

<210> 2124
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

<400> 2124
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aatgttgtat acatgacctt ccccgaaggg acacaagtgt ttctggtgct ttccaatggg 120
aatgtgggaa gggacccagg tgggccttgc cactttggga ttgctgtccc tgaagaaatc 180
ccttagcctg atagaaacgt aattgttggg agcaatgaac tgngntgggg gagaaaacat 240
nacttgggct ttcntaagct gnactggctc accgtgctga ggt 283

<210> 2125
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2125
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aatctgaccc tttgtccctc tccttttcat ctctcttttg tacaggcctt ctttccttct 120
gtgcaaacag acccttgtca tagtcatagt ccatcacgct gttaaatgat ttccagcact 180
gctctatgat gtgctgtaat ttcagggagt agttttattt tctacaacat gttgctctgt 240
agcacgtgta tttcactact gagtggtagt tctaatggac atattcttaa caaaatagtc 300

<210> 2126
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2126
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tggccaacag tcatccccat agccctctga ggaggggagg gatgcttaga gcaggcagtt 120
ctgtcagttc tgacgtggca ggtgccattg caacttgtgc ggaggagtct taggaagtgc 180
tgtcataatt cataaggtca agagcaacat ctggatgaat gagccacctg aaatgtgtgt 240
gggctgagcc acaggaaggg tgagtcctct tgcttgtggt gctttatggt gtgcaggttg 300

<210> 2127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2127
gctcattcca gctggtctat cgtgggcctc agaaggtgaa gagggaccgt attctggggc 60
ccacgataga ccagctgtag ctcattccag cctgtacctt ggatgagggg tagcctccca 120

ctgcatccca tcctgaatat cctttgcaac tccccaagag tgcttattta agtgttaata 180
cttttaagag aactgcgacg attaattgtg gatctccccc tgcccattgc ctgcttgagg 240
ggcaccacta ctccagccca gaaggaaagg ggggcagctc agtggcccca agagggagct 300

<210> 2128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2128
cttgaggact tctttttaat gacttttca gacttgagga ctccttttta aagttgtaga 60
ctgttccacc tagatccttc tggtcattct ctactttgtt gtggataaaa attttataat 120
aaattaggta atgtttaaaa gtggctttgt attttgtaca tttgcaacaa tgtgtgtatt 180
aacctctcct aattccatct actggcaaag cttgatttga tgagaattgg gtcccctgca 240
gtaatgtgac tctgaagctg acggattaga gagcttgtgg ttcaggcatg aaccttgtct 300

<210> 2129
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2129
tgagtgtgta actcctaaat tagaacactt tggtatctct gaatatacta tgtgtttaaa 60
tgaagattac acaatgggac ttaaaaatgc gaggaataat aaaagtgagg aggccataga 120
tacagaatcc aggctcaatg ataatgtttt tgccactccc agccccatca tccagcagtt 180
ggaaaaaagt gatgccgaat ataccaactc tcctttggta cctacattct gtactcctgg 240
tttgaaaatt ccatctacaa agaacagcat agctttggta tccacaaatt acccattatc 300

<210> 2130
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2130
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cttgaggtac aagaaaactt cagggtagac aggaaggagg cgtggtgaaa gtgatgaaag 120
gggagagtag aagggtggtc cagggtcaga cagggagtta gatttaatcc ttcagggcac 180
tttcattaca tcatagctgc cattttgtct tttatctgac tcaataataa gtcagtaata 240
agtaatgttt taattaaagg taaatgcttg gcaggtaggt taaacttcat tgagtcccaa 300

<210> 2131
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2131
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agttaagggg gagggtgacc ttttatatgc aagttgggaa atacagagaa agtgaaaggg 120
gaccaaaatg aaaacacatg aaataagata agcagagatg aaaggtggca ctagaactgt 180
aagaagcatt tgaacaggca gaacagtgct ggagacttta ggagagggct caagctgcca 240
tgtggccggt cctcaaatag ttctagaatg actagcatat ctttttacaa aactataagc 300

<210> 2132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2132
agaaattttt ctgcattttt atatgctgaa actagtttat atcttgattc caaaataact 60
tgttaaaata tatagtttaa aaccttgtat atattataaa cttagctttg taatattaag 120
tatgaaagca gcaaagatag atagtctcag aagaagaaga aatgtataaa ttttggggag 180
atgctgtgat aaatagacta gacttacctt tgagttccta gcgataccta cctgacagct 240
tccagctgga aaatctgctt ggcaaggaaa ggggaatatg attattgatg aacttccagc 300

<210> 2133
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2133
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gacctcacca tcctagattt taaaccttga aattttctag agctgcctcc cagtgacttt 120
aacttactgt gtggatctgc cttgctgccc tcacttcttc atcttctcac cccgtcctca 180
ccacttcctt gtcttctttt ggactggctt gtgtttacaa cattggatta gcagttgtaa 240
ggtcagcaat gaattcccaa atagcattca gcacctattt tcagcccttc ttaatttttc 300

<210> 2134
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2134
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tcatgaaggt gttaacaagg ggcctccact gggctgtgcg gagctactga agatgtttgc 120
acaagagaag ggtagggcat ggtagacatc aaaactcctg ggacctcgga ggtgatcgag 180
cctaacctgg ggccatttta cagataggaa gactgagatg aagacaggag aagggccatg 240
cgtgaagtca catagcactg ggcctggctc ctggggtaaa ctaaggggta gaaaagtctg 300

<210> 2135
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2135
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ttctgttaat gcacctctgt cttaatgtga agcaacgtat aagcatgcat cttaccataa 120
ttggtgtgca tgtctgtgta catgggcaca aacatttctc tttcagccct gtaatcacat 180
ctccaagtaa tctaagtcaa aaagagcaaa atctaagcca gtggacatgc tgaggctatc 240
tcagggtctt ctggaatgat caaggccaga aatcccatct tcatatacat ttttttttt 300

<210> 2136
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2136
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ctcctctact gtgtcaggtg gaccagggtc acctctgttc tgcgcagctt tgagattcta 120
ggattctacg gccggcacga atggcatggg agggttctct gcacgggacg gcataacggc 180
atgccatcct tcaggctggc aggagcctgc gcaggtgtgg caaaatcttg aaacagcctg 240
tgtcctgcct ggcttttcac tttcctattt aatataagaa agcacttttt tttctgcttt 300

<210> 2137

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2137
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agtagtgttt tcccattcgt attgcttatc ataaaatgag agagtcttct gtccatcatc 120
tttattgaaa gttgaaccac tgtaagcaaa aataccaagg agaggtctga tcccactatt 180
gaaataaaaa gaaccatgag ggccctgcag aattcaactg gaccttgggg attactcact 240
gaagaaggtt ttctattttg aatgtttatt gtcttcctac cccagtctcc ccaacaagaa 300

<210> 2138
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2138
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gtatttcgcg tgccagttgt ctcagctaat agatatcagc agctggcaag gaccttggct 120
gcactgcctg ctgccccctc atcttcactg gcacagggcc ctacacttag tcaacaggca 180
gccaaaactt actgagtgaa ggaaccaaag gcacaacttg agaactgtct atgtttgtgt 240
ttatagaaga ggaacaataa agtcatcgac tatctaaata taatgaataa caaaaaagaa 300

<210> 2139
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2139
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gggctttctc tgccaaggct gggaaactag agttctggca gctttgttgc tcctttgtct 120
tctgtgtgag ccgcggtgtc atcagccagg tcaccccgct tgcagcacag tcgctgtgct 180
ctgggcatcg gtggagcggg gagctctggt tgtgcacaga gggccaggtg tagatgttgt 240
gcacagaagt cagccccacc caggttaggc tgagccgtct tccctgaacc tgaaatggtt 300

<210> 2140
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2140
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tacttaaaac agaagaaaac cacttctggg gcagaaaagc tagaactgat atcacagttc 120
cctctggtgg ctgctatgtg tcaattcgat ctccttagaa gaaaatagtg tagcctaaaa 180
taggtctttc tttaccacag ttagatccct gcagcaatct acttctcgaa acagaataac 240
cattcaacta tgacagctat cttaaaatca tagactgtaa ataatattgg tcacttctac 300

<210> 2141
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A,T,C or G

<400> 2141
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tccagcaatt ctccttcagg cacatttcct ttgctgaaac ctttttagca ggtccctgga 120
gcactcatga acaaaataaa aaaaccagaa accctgtaac cctggtttct attaaagtct 180
agcttggggc ttttttttt tgacaaaggg tcgnaangtc ncccaggctg nagnggagng 240
gngcagnctn ggntnantgc aanttccacc tcccaggtt 279

<210> 2142
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2142
gcgacgtgtc tgcggagcct ttttatacct ccttcccggg agtccggcag ccgctgctgc 60
tgctgctgct gctgctgccg ccgccgccgc cgccgtccct gcgtccttcg gtctctgctc 120
ccgggacccg ggctccgccg cagccagcca gcatgtcggg gatcaagaag caaaagacgg 180
taggcttcca ggcgccggct tccctccccg ccaccgcact gcacgcgccg acccccaacc 240
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<210> 2143
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2143
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aatcatcact gcttttctgt agacatttag ccgcagattt gattcaaaat cctgttagta 120
ggtggtgact gaaatagttt agtgggggca gggaacagca agaggtagga ggaaagccat 180
tcagtaaatc ccccaaatcc caatgtttgc cctgctcatt tgagcaactg ctcccattgt 240
caggagaagg tcattcctgt atgaatgttt acatcacaaa taaaatgaag cttcagtaga 300

<210> 2144
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2144
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ccctactcct gtccagccag tgtttctcaa agcgtgctga tgagcaatgc aagatgattt 120
catgttatag ataagaataa aaaaattgtt ttgtgtttaa ctcaaattag aaaaaggcaa 180
caattggtat gtgcgacctg tggttttgca gatgatactg cttaggatgt tggtacttaa 240
gaaaaggtca acttttcaaa aatactatta gtgacatgtg gacctagtcc tcctgaagag 300

<210> 2145
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2145
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cctcaggcga tccacccacc tcagcgtccc aaagtgctgg gattataggc gtgagccacc 120
gcacctggcc tatgagtggt cttttaatta ggaacaaatc taatggaaag gagagttgac 180
tgaagttggc ccacaggatt gtgagctggg cagtgccttc atgaaggctt gccaccttgg 240
gacgccccag tttactgggg tgtcttgcgg agtgcagaag gctttctggc agctgcctgg 300

<210> 2146

<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 2146
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cttgaggtac aagaaaactt cagggtagac aggaaggagg cgtggtgaaa gtgatgaaag 120
gggagagtag aagggtcacc tcnnccccat cnnncacctc tnncntctcn ccccncctcc 180
ttccnttctn ctncancnag ntcccncncc tcnncacntt cntnctcccc ntaccccnnc 240
ncntncnnnc nnnccccanc nacnggctcg ccctcnagct tc 282

<210> 2147
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2147
gattcatctt cttgttcttt aaaagtcaaa aggctttttg acctttaaat aactcttaca 60
tctggtcatc actgttgaaa tgttctacta aattttcaga gtggaaaagt tttaggctta 120
aaactgactg gtaaaaatag aatatttctt tgtattgatt tttcagtata gctgtacagc 180
cagttatcct tcgttaagtg tttcggtatt aaaactgctc acatttgtaa atattgagca 240
gctttattgt cagaacaaga atcccttggt ttcccaatcc ccaactttta acattgtaat 300

<210> 2148
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2148
gagaacctaa caaatgaatg tggtgggtaa ggaagagaaa gaagtagaga tgaaatttcc 60
actctgactg gggaaactag gtagatagat gatcatgaag aatctgagga agagcagaag 120
tcgtacaggt aagaatgaat gcattcatta atttattcag caaaactgcc tgaagaatac 180
catgtgcagc actgcgggac aaaacagggc ttgcattccc aggctgtact cttgtgagga 240
caacaagaag gaagtagaga aacacacaag aacaatgcta agatggggaa actccatacg 300

<210> 2149
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2149
agaaggaagg aagaaaggaa gggagggagg aagggaggga gggagggttt gaagttaaca 60
aatctatatt tggtttggaa aatatggtca catagctata ggcattctgc agaaaacatc 120
attccttgtt aatagtcaaa taacttagga atttaataat aattatacct aactcttatt 180
gagtacttaa tatgtaccag gcatatagta tataaatata cctatatagt atataaaaat 240
aaattgtaaa attttgtaaa atatatataa atttttaatg taaatatatt tatattattt 300

<210> 2150
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2150
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agctataccc ttgggagtct tttgttgagg gagaaataaa tgtcattttg caaagccact 120
gatattctgt ggttatcacg gcagtttaga gaggaaggat gggggaaagc tgggttgcgc 180
tctaggcctt gacacttcct gcctttgtag tgttaggcaa acatggcaac cccagaaaac 240
tcagctgcct cagttttaag gcatgcaggg tctttgtgag gaccatataa gccacgtgga 300

<210> 2151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2151
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agagaaccta cgctgagaac tcaccaccag aaaaaatatc tgcttttaaa agcacagtgc 120
acaatagtac tttttaaaag ctaaaagagc taagtttaaa gttaaagaca cgtatgttct 180
ttgacacaga tctcctaaaa gtctgacaaa attagaagta ccagcacata aaaatagatg 240
cccaagaatg tttattgaaa aaagctgaaa acccatgact atctcaatag gacaatgaca 300

<210> 2152
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2152
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gtgaagacaa cgcaaacttc aaatgctcct gatgtaaatg atgcaattgt gaaactattc 120
aatgattttg atgttaagga aacctcccat catttagtga tttctcatct agatctacac 180
atatgtgatg acattcatgc taaagaaaaa gagtcaaaca gacgtattac tggaggggca 240
atgcaactct cttttacaca gctaactata gattattatc cttatcataa agcaggagat 300

<210> 2153
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2153
ggatggtctc gatctcctaa cctcatgatc cgcccgcctc ggactcccac agtactggga 60
ttacaggcgt gagccactgc gcctggccgc caatagtgtt ttaaatggca caaatttgaa 120
tgcctccccc ttaagatcag gaaaaaggaa aggatgtctg ctttcaccac ttctgttcaa 180
ggttgtagca gtgagataag caaaataaat aaaaggcatc cagattgtaa ctgtgctttt 240
ttacagagca ggatttatac caactggttt cacaaataat tttaaagatt cactactcaa 300

<210> 2154
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2154
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aaggagtggc tcatctttcc tctccctggg gcattttggt gtgggagact acaggggatg 120
aggttaaaaa gcttggtcgg caggtagagg atggggagag aggttagggc cctgggaaag 180
gtgagagatc agccagagac aggtttccca gaacagaatg tctggccttt gtggtgagga 240
gggactgtgg tatgagccgc agaagcgggc caggggtaaa ccctcctgtg cgtccttcct 300

<210> 2155

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2155
cagaacttca tatcctacta acatagacca caacagtcat tttcaaagaa tactgataat 60
tctatggaat gcaatttaag gacattaaaa gccttcttct tgggcatgaa atcttaccat 120
atacaagctg ggccctgaaa gtttaatttc ctttagtcct atttatgggg cctatgatta 180
acctgctgct ctccatcctc ttccctcatc cctgggccac atgactacca agtccaagga 240
tgcctgccac cctcttgcat agtgcccttt cctacaactg ccaccaaact cagctgacag 300

<210> 2156
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2156
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tcttccctgt cccccaaaac ctaccagctt aaccctcctt tgtgccatgt cactggtgcc 120
tgtggctgca cgtaactgga atggaacatg ccttgtttcc cactcagccc cctttaagct 180
acatcctgaa ttccccaaac cactcttcct cgtacctgtt ctgctgcacc caggtgcctg 240
cacggacagg gaagcatctt ttctcggtag tgcactgtgc ttcagagact gggtcccccc 300

<210> 2157
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2157
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gatgggaata agccttggct ctgttctcct tgcatactta gcccatggga acccagtttc 120
tggcctcacc aggaatgttg ttgtgctttg agctccctgt ggccttgcat gatgcctccg 180
ttggtcctta caggaggtga ttggctggcc acctcacttg ctttctcctg tggacccttc 240
tttctctgtc cttccttgaa tgctgccttt gtccctcatg attatgctat caacattctt 300

<210> 2158
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2158
gacctttcct atagagaaga agagtagtct ttgcaaattt gctttacatt ggtgaaaaaa 60
gtcatcattt cgaagccact catttcatcg gaattgggag ggccaccatc ttatagctgg 120
gcttgtgaac ctttgacttt tcccagtata tattggacta ttttgatcac tgctatatgc 180
ttctagttcc tcaatcagta tctgccacag aggaggccct ctaaattttt tgtggaatta 240
cttaatgaaa tgaatgagtg attattcgcc ttcacaggat tgtgtgagac catataaggt 300

<210> 2159
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2159
gcactagtgt atcttaaagt aagagaatga cttttattca agaaatacac aacaggcaag 60
tgccgtatac caggaattgt tcaaggagag caggtagttt gtcttatatt ctaacgtggg 120
agaaagaaag caaataaatt acatgaattg attaattgat cagttgcatg gcttttagta 180

tacatttctg tcagtctgcc aaccagcaca ggtcccttat tagcatggga gaagggcctg 240
atcactgaaa gtattataga tttatagagt attgaaagga aacttaagga aattgggggc 300

<210> 2160
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2160
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ggggataaat agtagaaaaa agtgaaacag aatgaaggca ggtgtttttt attctaatga 120
tggaataata cagagatact ggacgatctc tagcagttaa ttattgtgac ccatataaaa 180
ttatacaggt cacagtataa ttctctatta ccgtttttac accagtaagt cttagataaa 240
ctaagcatgc ttatgaatta tgtatacagt tagaatgcat tatttttaca gaggaacaat 300

<210> 2161
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2161
ggttcatgca gtaagatttg ttgtttattt gtaaatagaa tggtattcta tttcaaactt 60
ttaagacaaa cctgttgccg caaggctgat gcacattgga tgatgactgt tttctggttc 120
cagatcttgt ctttgtgata taggagttat ggaatgagcc ctggacagga tcctaagatc 180
cgggtttgtt cctacttcta ctcattaata gcagtttgac atttaatata ggaataatgt 240
taacttgtca cttaaaacaa gattctcttc atcttgtttt caagatttca agattctttt 300

<210> 2162
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2162
gttggccttt tctcttcaga tgtttacatg caggaagtgc ctttgataaa gtatggtttg 60
ctaacatgag tatgatatgc atgcgcattt ttggatgcca aacacatagg cagatgaaac 120
taagaagcca gatgctaaga tagttgttga tgaattgaaa ctagcctaac tggctccact 180
gttggagtca tttgctcaaa ctactccaaa cttttgtttg gtctactgaa aacattagtt 240
ggaaaggtac agcgttaatt taaggcaggg aagcctccag cacgtgagag tcgtgtctct 300

<210> 2163
<211> 300
<212> DNA
<213> Homo sapiens

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gctgccatgg caagagaatc tttgttccat gttattctgt aatgcaggaa tgagacaacc 120
tcatagaagc tcttgagtga cagatttcag cacgattcag ggagagcttg attggcaaga 180
atctcagtta cttttgtcat tagtttcaat ctgctgcctt gcaaaacccc tccaaacggg 240
aaataagctc ctcggactga gtttccatta ttctccttta tccagagggc tcgtcggtgg 300

<210> 2164
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2164
gtggggacga gccctcccca tcctgagtcc acagggagat ccacagctca cggagcctgg 60
ccgcggaccc ctcccacccc tgccttgccg gcccctgcac atttaggata tgctcctggg 120
tggggactgg gctgtgccca gggcctctgt cccccaggat gtcttgtggt gcgggtcggc 180
cgttctgccc cccagggcac cccctgttgt aggcactggc tagggagggg caggcctcct 240
tcctgccccc cgagacactc ttgggagatg cattttccgt ctggctcaca gggggagggt 300

<210> 2165
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2165
gcttaaggct acattaagtg gacagacttt atatggattc tctaatttta atcttcaaaa 60
tgctatctaa tgtctcatta agacttgcat ataatgtatc ttaagtacag tcattaaata 120
tagtttaggg agatttatgt tcagatattg cttaaagatg ttttaatagg cccatttact 180
ctgatgatat taatgagctc ttaatacaga ctaagcttct aaaactagtg gtaaagactc 240
ccagcctgaa cacaacaact tggaattaat gcctggtttg gacagatgcc tgagggtgag 300

<210> 2166
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2166
gagaaaagct ctcaggtaat ctgtatggct tataagggaa acctgcagtc ctttctgaaa 60
ggggagctgt gaatatgact gctttgtaga aagatgtctt aggattctgg gtgaaaattt 120
ttaattcccc tcatgtagga atgtcacaga gtgtaccttt ttgacttagt attttcctag 180
taaaatacac ctttcttaag aaaatggcta caaagtcaga tgcatgtaaa tgctttcagc 240
aagggtttat tgatcatctg ctttaggctg ggctctatgt taggtgcctg tggattccat 300

<210> 2167
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2167
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aatgtctgtc ctcctagcca aagaaaggtt gctgcttgca gagaagatgg gccatctttg 120
ccgtgatgac tcagtggaag gcctgcgttt ttacccaaat ttatttatga cacagagcta 180
agggttttgt atttaaaatc ctttttgtcc atatgcttgc gtcatgtana ggttgtatga 240
cattnngcta aganattanc cccgatcaat tgagaattta ttggaacttn cngtgcaatg 300

<210> 2168
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2168
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cttaccttga ttgaaaagcc atgttaagtg caaggcaaat tctttacgtc tttatacaga 120

gattaacaat ctctgggtga tgggagcgtt aagtgattta gctttgtcac tagtagatgt 180
gtgaggttag aaaagttgct gtccttttg ggtctcagtc cctcagctct gcaattacag 240
gcagtcttca ttatttggta caaattctat gtaaaattga taacacatat ccagattaaa 300

<210> 2169
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2169
aaggaacatt tcaaactttg acagattcag aaggaatgat atgatgagcg ccatgttccc 60
ttcacccata gtgttctgca tttggccagt cctatttcct ctgcgccccc agctgggcga 120
tgttaatgtg ctcccagctg tcacatcagg ccactgatag acgccacagt gtgggatgct 180
actttcaaat gatatgttct tgtttacaag tcagtttcat agtattatga tgttaagaga 240
tttcatttca gaggtagcta agtttgaaca ccagctctgt ctttgaccag ctgtttagga 300

<210> 2170
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2170
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gggccatgag gcagtagagt ccctacaggc caagaaactg agcagaaccc atgcctccag 120
ctcaccagct gcattgaagc ccccagctgg cagggagact gctgtgaatg gacagggtga 180
gctcatcccc ttgaagaaca ttgagggaga attgtcaagt gctattcaca tgaccaagga 240
tgccaccaag gaggctctac atgccaccat ggacctcacc aaggaagctg tgtccctgac 300

<210> 2171
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2171
gccacatagc aatggagaac tgcaggactc aggtccactt gcccagcagc tggcagccaa 60
gggccatgag gcagtagagt ccctacaggc caagaaactg agcagaaccc atgcctccag 120
ctcaccagct gcattgaagc ccccagctgg cagggagact gctgtgaatg gacagggtga 180
gctcatcccc ttgaagaaca ttgagggaga attgtcaagt gctattcaca tgaccaagga 240
tgccaccaag gaggctctac atgccaccat ggacctcacc aaggaagctg tgtccctgac 300

<210> 2172
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2172
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gccaagttcc catataacag gtgcagggca tgcttcattt accattgaat ttgatgacag 120
taccccaggg aaggtaacta ttagagacca tgtgacaaag tttacttctg atcagcgcca 180
caagtccaag aagtcttctc ctggaactca agacttgctg gggattcaaa caggaatgat 240
ggcacccgaa aacaaagttg ctgactggct agcacaaaac aaccctcctc aaatgctatg 300

<210> 2173
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2173
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aaggggctct ggggaacagc atagttttgc tttaattctc cagcttgttc tcagtaaggg 120
tggaaggaga aagagaggaa gtatcgattt tacagacgtc acatcgtact gctaagaaca 180
gacagaaaac ttgttgtaat aacccgtaca cactgtagga gaactaagga ggcccctggt 240
gtagcaatca ttttcccaag gatgacggat tgtgaggcag gaaggtgtga aaagaggcag 300

<210> 2174
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2174
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gagttgtgct ctcctctgac tacgtggtga gtcttagtct ctggagtcag ccagatccag 120
atcttagtct catggagtta gccatgatca ttttaaactt ataattatta aagtgctatg 180
atgtacaaag gtgcttatga aactaaaatt tgaggaatta gatacaatga ctatgcggtt 240
ttgcttttta gtaactgttt ctcattactt cattgatcca aagtgagatt tttaaagcta 300

<210> 2175
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2175
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ggctccacct gcttttgaaa actctccagt ggaaacatct actaactctg acctaaatca 120
gtagctgctc aaaatctaca gactactggc ttaaaacctt ggtaagtgcc cagggtgtag 180
tgaaagttct caataaacgc cggctggtgg cgctgctgct actataagca acgttaggag 240
agcctgggtc ggctgacacc tgcaatagaa acctgtacgc aacaagttgg atgtcacatc 300

<210> 2176
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2176
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gatttttatt tttggttttg cttaaacata tagtttgtct agaagtttaa aaagctaaaa 120
gttaaaaatg gtgtaattat gaaaatctaa cactcaagat agtttctaaa aggaaatcag 180
tagttaagga tacctgattt caaaatattt aaagcataac ctaactgatg gtaggatgat 240
tgtatcttga atatgtggta gggccacatc tattgtagga aaaccttgct tttatcatct 300

<210> 2177
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2177
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attccacgcg tatgtctggg ctcactcaca gcatggccga gtgtctgcag tgctggtcct 120
gacccttcca gagcagcagt ggacagatga gataagactg tttcagaaac aaagatggcc 180
acagccttcc taacaagcag gtcatctggc catgtctgta ttgtaactgg taaaaggctt 240
caagtcagat tgatgatcaa gataagtcaa aaccccagcc caagattggg aaagcaggtg 300

<210> 2178

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2178
gaagggtaaa gtttccattt ggggcctctg gctcttggaa aagggcagtg tctctaaacc 60
caggcaaacg gtaaatgtgg ggcataggca agagggtccg ggtagtggcc acttccccat 120
catgctcgtt tctcattttg tgtttttag tagaaaaaca cagtgtgttc ttttgcccag 180
acattaatct ttagaatgcc tgtatttttct aatgttggga tttctttcac aaccacccac 240
cttaatattt ccattgtgac tcagaaaatc agacttcatt cgattcttta gagaactata 300

<210> 2179
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2179
gcacgcagca cccactcagc acctcttaga agatgcgtcc gtagtatata gtatgatttt 60
tcgaagggga ttttgctcat attaagggtt gctttaggga tgtccaggaa gggtcaggta 120
aggaatcttt caatctgctt tctaattggc ttagttttcc cactgtcttc gcaaaaggac 180
aggaatttcc aggttagttt gcagcttgtc tttcatcaag cgaaatgctc atgctgttgg 240
gtagatggta atagaaacct tttgctacct ttatttatca agagttgtgg agccgaggaa 300

<210> 2180
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2180
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gccatcaagc gggagattga tgtgaccaag gaggccctga atttccagaa gtcactacgg 120
gagaagcaag gcaagtacga aaacaagggg ctgatgatca tcgatgagga agaattcctg 180
ctgatcctca agctcaaaga cctcaagaag cagtaccgca gcgagtacca ggacctgcgt 240
gacctcaggg ctgagatcca gtattgccag cacctagtgg atcagtgtcg ccaccgcctg 300

<210> 2181
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2181
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tgaacacccc agtccacacc ttcgtggggc atgatgatgt ggtcctggag ttccagtgga 120
ggaagcagaa ggaaggtgag tgggagaggc ctgctgccca ctttccttct gagctctggt 180
gacagcggtg ccagtcagtg ttgccatgga gtccagtaaa gaagacatag agagagctgg 240
gctttaggaa ccagagagcc agggctgttg ccacctttcg tcataggtga gtaaagggac 300

<210> 2182
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2182
tggaagctct caggccaagg tgattgacag agatggtttt gaagtaatgg aatgtataaa 60
aggagaccag tatattgtgg acatggccaa caccaagggt catacagcaa tgcttcatac 120
tggctcatgg catcccaaaa taaagggaga atttatgact tgctcaaatg atgcgactgt 180

gaggacgtgg gaagttgaaa atccaaagaa gcaaaaaagt gtgtttaaac cacggacgat 240
gcaaggcaaa aaagtcattc ccactacgtg cacatatagt agagatggaa acctcatagc 300

<210> 2183
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2183
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tctgctgtta agtgacagca tgtgctggag acattggaga aattacccag tcatgctaag 120
cagagatctg gaggtcatcc atggatgcag ccagattctt tctagagcta caaaactgac 180
tttctaaaaa gtcagcaaca cagcgctgaa gaacatttat tgctacacct tattttaaaa 240
ttggattcaa tatcatccaa tctagtagtt ctcaatattt ctacaaaata gaatcactta 300

<210> 2184
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2184
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aaccgaggaa agctggagca ggttacgtat aaaaataaag tccattcacc aaaaaaggca 120
ttacttacga gttaccaggg gtgagagata ggatgctgaa gtggtctaga aattaagcta 180
cccagtatgg aagggctgac aattcagtga tcgagagcag tgccttagaa cagccaaaac 240
aatagcaaac tgagatctgc agaattaact ctcctgaaaa taacaaggag gtactcattt 300

<210> 2185
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2185
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aggagagcct cactgtaact cagctcacca ctggcatctc ctgcaattgt ttacccatgt 120
tcctgaccca gaatgcctgg cagaggcccg ggagcccata aagcaggtat tcatcttgtc 180
tcctgaccag ggacacaaaa ggcttctttt gtccctttat atcttatagc ttttttggt 240
tttggtcttt gcaaggcgaa tcctgccatc tcctctgtag attaagtctg tgaatagggg 300

<210> 2186
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2186
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aaggaaaaaa gtcccaggtt tgaagccagt tgtggcctct tactaggtat attattgagt 120
ctttcagctc tgtttcaaaa tctagaaaat gagttcagta ttacctgttt aaatttgtga 180
ataacgcatt gatgtacacc ctggattccc taaaactgtc ttaactgcgt gagtccagtg 240
gactcagtgc atgagtctaa atccttagac ttctatcaga ccttctcccc tagcagtttc 300

<210> 2187
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2187
gatacagaaa agaggcccca acattaagaa tttctaaact ttattctttt tgttatcgtt 60
tgtcctctgg tagtgatcag tggtcagtct ttgaaaagaa aggacctatg aactcaactt 120
tagttacagc aaagaaatga gtaggagacg gagggaatgg ccagcagcca ttgaagaggg 180
agagcaggct gggcccaagg gggacccagt attggcagaa aggaaagctc agggtgtcaa 240
gtgggcctga gaagggatca tctggctgaa caagagaggt ccacatgtag ctctcagcac 300

<210> 2188
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2188
ataacctagg tcttagaagg ataggaacaa caaacatcat gatcttacac acctgcactt 60
tctagcacca gctcctggag aaaaatcgag aggctgaatg gtgtctgtta acagattata 120
gtcagtgagg cctctttcct cagatgttgt atcttatcaa tggcagacat tttcaacctg 180
aaagacacat gctcattaca agacttagta gtgctctaac cctgttttca cttatcagtc 240
caagacgtag ccgacatcaa agtattcagc ttattacaga attgacttcc tcaaagtttc 300

<210> 2189
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2189
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gtgggcttca ggcatggttt gattgggatg ccagctccgt tttgctgaga ttccattggt 120
tctgctttct accgtgtttc agcccggttt aggtggcaaa acagtggtgg aaatgttagg 180
cttcacatca ccgtaccaca tagaccaaaa tgagagctaa tatccaggat gagaatgaac 240
agctcttcta atcaggctgt cataaaaata aggaagctta ttttatagaa gcctttacca 300

<210> 2190
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2190
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tgtcctttgg caggtctgat cagtaaagat gccataaacc ttaaagccga agcactgctc 120
cccactcagg aaccgcttaa ggcttcttgt agtacaaaca tcaataatca ggaaagtcag 180
gaactttctg aatccctgaa agatagtgcc accagcaaaa cttttgaaaa gaatgttgta 240
cggcagaata aagaaagcat attggaaaag ttctcagtac gaanagaaat cattaatttg 300

<210> 2191
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2191
ctggaatggg atgactgagg ctcccatcgc tgtctttatc tcagaccttg ggtttaagta 60
actttctgaa aaccacagtc ccaccacagc acagaagcca gtggggtgac acgaggagca 120

ggcctgggtt cccccggttg cctggttcca agaggggccc gtcgtcctgt gctctggggt 180
ggccttggga ttaggagagc ccagctaaac aaccttccca tcaggctcct ggtcacagca 240
cgaggcttta acgtcagccg agcctggcaa agaaagtgtc atattatggg gctttaggat 300

<210> 2192
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2192
cttccaccag gtactgagta gatagatgca ggcccccaga ggaagctgga ggctggagat 60
catgaacaag ctcatttccc ataggaggtg gggagggcag cctgaaggtt actctgcagt 120
tctcttcggc agaatcggaa gcagcaggct ggcatttgtg catgagctaa gtgaggacaa 180
ggagtctagg ttttcagcca ctgcacacag gctctgtggc ctgcgaccgg tcctatcctg 240
cttgatgaac taccaggagt gagagctgct ttctgttttg gtagtgggtt cctcacattt 300

<210> 2193
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2193
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gcccagcgct gagtgagagc cagcccaagt tcggccactt cctcgagttc atggatgagt 120
tctgccagga gcccacagcc agtgactcac aaggctagag ctgtgcatgg gggctgtgtg 180
caccacccgg cctgtgcccc agctctcccc gagggctctg tgccctggac cgcacctcaa 240
ggttgaccag ccggccacag gcctcagagc tcagctgggc cccacttgct ggccacaagg 300

<210> 2194
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2194
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gcatgagctc cagggctgtg aaccagagtc ataccctggc aacagccatc aacactgaag 120
aggacctggg gccttgcagc agagcttgtg gctgcggtgg ccattttaga tgatgtcatt 180
cagctccctg gccatgccct gcttcccacc cacctcacat tggtggctgc tctttttct 240
ttgactagaa tcaaaccaaa caaggctcta taaataaccc tcagggatct tcaaaaagat 300

<210> 2195
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2195
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tctgaaaggc cagcatttgg ccagtattat ttgaatctgt attgtatttt ttaaccagaa 120
gaatgaaggt ttatagcttc attcttttgg aagaggaggc tggagaccac aggttaaatg 180
caggtgcatc gctcttggcc ggccctggaa gggtcctttc tccctccttt tacactcgca 240
gacaagcttg tggatgctca ataaggacag ctgccgtttg gacagagatt aatcatttat 300

<210> 2196
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2196
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cctatgcccc aaccactggg tcatgcgatc cccacccttc agccactaga tcccagatcc 120
ccctgtaacc ataactgtgg atcccttact tcagcaactc aagtctgcta ccctaaccac 180
aagattcaag attatccaca ccccagccct taatccccat cccccaaatc actggatcct 240
gcagccccac atcctaaggt ggatcccacg cttccctgtg ccccctactg gatcctggac 300

<210> 2197
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2197
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gattgacagt gagatttcaa atgggttaaa gattgctctg caaagaggtt aactgttgag 120
attgatacag gctatcttca acatatgtac attgctgtat atgacattta cctaccattg 180
tgcatctggg acttcctgat ggaccacagg aattcccttt tcttcccatt ctcttccaga 240
tctttcttct acttgaaacc ccttatctac aaaaatgaat aaacaaccca atctcatttc 300

<210> 2198
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2198
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ggagacgaag gttgcagtga cccgagatcg taccactgca ctccatcctg agtgacagag 120
cgaaactcca tcttggggga ggaaaaaaaa gaaagtaata gggaggcaaa tcagaatttg 180
tgtgggagta ccccctagtt ctggctcttg ttagtatact caacctgtca ggctattctg 240
agagcgaaag ctcctgcttt gggctagttt ccattcagaa tggtttttga taggtatgaa 300

<210> 2199
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2199
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ttgttgataa cctctcaata atgtttggtt tacatgccag taattaaatt aattcaacat 120
gaagttgaat ttgatgaagt ggtcatctat ccaagtattt ggcttttgtt ttgttttgat 180
ttgtttttgg agttggagtc tcgccctgtc acacaggctg gagtgcagcg gtgcaatctt 240
ggctcactgc aacctccgtc acctgggctg gagcaattcc cctgcctcag cctnccaagt 300

<210> 2200
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2200
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atattttact attcatgagt ttagaagagt gtttactttc ctgagttttc atttccttct 120

ttttcttctg tcataggtaa tttacagagc aaatagccac cagagaggat accgtaaggg 180
atgtggaaaa tgagttcctt tgcgcttatc cagtgaggtt gattttcagt caatgagcat 240
tcagtatatg cctgggactc tggctttatt ttttagcttt gtgatgccaa acccatcaat 300

<210> 2201
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2201
aattccgttg ctgtcgcaaa aacaggggcc cacagaagaa cctgaaaaag cagatcgggg 60
gaggagagct gcaatgatct aaaaatatgt atatgagcac tggtgtccaa ggctgtggaa 120
gatccaatat ggagatacag aaaagggcac ggagcttggc aaagagaggt gattgacttt 180
tgaagaacag aagccaggct aggatgggcg aagcatgaat gaatggatga tgaggagcag 240
ggcccaccct gggctaaatt gcaaagcagt gcatgtggag gccccctttt cccttgtggc 300

<210> 2202
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2202
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ttttactcac aggtattttg ggggttgctt tcattttctt cagatcagtg ccacttctgt 120
gctaacggta agagatagat agacagatag gcaatgaagt gttcacttaa ttaccttggt 180
ttttagttta ctaattatta cattcatcgt ttttgtgatc acaaaaacac aaagaaggag 240
gtctgcctgg atgggattac aaagatttag ccagtttctt ggtatataac agaaggtacc 300

<210> 2203
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2203
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atggatgcat gtagaccttt taagaacagt taatgaagtt taatctgctt atgtggagga 120
gaaggtatga tggaaaggct tctggcatgc aacgggagcc gccctgcttt cccccgatgt 180
gtctattagg acatttctgt gacactgcct ggcgtctgca acctgctacg ttgctcactg 240
atggaaggaa gaggcctggc cgtggtagtg gaaagctgag ctctgttgtg atatgagagt 300

<210> 2204
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2204
gcaacaaaag catacaagat ctcataaagg aagtggagga gctgcaggga cgaccgggag 60
ctttcccagt aagcatcagt tcagaaacaa atttaagtaa agaaatggaa tctgtaatga 120
aagatataaa aaataccact cagaagaaat atagagacta tagcaagacc ccgggctcac 180
cagacaatga ttttctcttt atgtactctg ttgctagaac caatttagaa cttgaattga 240
ttcatcgagg aggcaatttg tgttcaggtg gtgcaagcac agctggcaaa aggtcttgtt 300

<210> 2205
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2205
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aattttcaga ggcaaatcag aaagtcacgg gaatgattga cttagacacc agcaaaaata 120
ataggattgg gaaaactggg gagaggccct ctcaagagaa cggaattcag aaacacagga 180
catcgctgcc ggctcccatg ttcagcagaa gcgacttcag cgtgtggacc atcctgaaga 240
agtgtgttgg cctggagctg tccaagatca cgatgccaat cgccttcaac gagcctctga 300

<210> 2206
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2206
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acatgtcaaa tgcaagactg tgtgctctta atgacatcta tattaaggga tctgaatttt 120
ccatcataaa tgaacatggt agcttaccaa atatcttctg ataagtcatt cagtgctcag 180
gttctatgtt ttttctcctg tagaagagtg aagaaactac acatcaccaa aatattgtaa 240
ggctaagtaa taataacggt gactgggaaa atgggaaatg agatagcgtc aaacgtttgt 300

<210> 2207
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2207
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ctggctaggg cctcatttcg tttcattgga ctgctgtgac acttgtttcc ttcatggtat 120
ttagacttcc tgggttattt cccaatccag actcatgttc tgtttcatga gtgcccattg 180
cacccatgca cttattgagg tgtgtttgaa agcagaattt aaaaatttga tctcagttat 240
tgaacatcct acgctatttc agaaagggat gcttcttaaa ttcctgaaaa ggaattcaat 300

<210> 2208
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2208
ccccttttca ctttgccagt tggacttatg tctttattgg tcattcaagt ggggcaaagg 60
aaatatcctt ttaaaactca ggcaaactgg gtgtttgtct gtatcctgtc agaggaaaca 120
aattgaaata gatttactgg aaagtcttac acagttagtt actaagcggt ttgtttgttt 180
tgtttcgaga cggagtcttg ctctgtcgcc ctggctggag tgcagtggtg ggatctctgc 240
tctctgcaag ctccacctcc tgggttcacg ccattctcct gcctcagcct ctggggtagc 300

<210> 2209
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2209
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agtttataac aacactggct tccacagcac aggaggtgag catgtgttaa tatttaagat 120
tggcataact ccctttaggt gcaagtgttc aggccaaaat gttcctgagg cattttgatt 180
cctcctcctg ctgcccatct ataccaagcc cagaaactgt ctggaatata ttttagtttc 240
ctgaatgaca ccaagaagta gaacagtctt ttcaaaaatg tattttaaaa ataagctgaa 300

<210> 2210

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2210
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ttggtggtgc tttttgggat cactgctggg gccaccgggg ccaagctagg ctcggatgag 120
aaggagttga tcctgctgtt ctggaaagtc gtggatctgg ccaacaagaa ggtgggacag 180
ttgcacgaag tgctagttag accggatcag ttggaactga cggaggactg caaagaagaa 240
actaaaatag acgtcgaaag cctgtcctcg gcgtcgcagc tggaccaagc cctccgacag 300

<210> 2211
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2211
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ccagttcact cacaggagtt catattctga tggaggagac agaaaataag ctatagcata 120
tctgtgcttt gtgaatttgt cattgctgcc tattcccgtt gccttttttt tacatctgta 180
tttctgtcat ctctgtccta cctggctcat cagggaggtg cagaaggctg aagaaagcaa 240
agtccctgag gactcactgg aggaatgtgc catcacttgt tcaaatagcc acggcccttg 300

<210> 2212
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2212
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caagcttgca gattctgtcc ctgttctgac cgggggtcac agcctagtgg tagaacagga 120
cctcctgcta agatgctgga aggacccttt gggggagctg aggcctggct cccctctccc 180
caggcgcagg tgcacaggcg tgtgggctgt ctgcaagcac agatcctgcc tcacagcacc 240
attaccacaa taactgaatc tgtgtttcct ggctgctgtt aattgtgcta gagatttggg 300

<210> 2213
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2213
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actagtcggg ctttgcacac agcgacttct ccgtaaatgt tgactgcagg gcagaaagaa 120
aggctaaaag ttcttaggag aatgtttgcc tttgcatgta tatgctggcg atgctaataa 180
gtcccagcta gacctggcag tgagtaagtt caggggtggc aatttaattt tcttgctatt 240
agtaaaacaa acagtaggtg ggatgggtgg taagcttaaa tatctctgac gcgccattta 300

<210> 2214
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2214
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ctattagatc taagacctaa gaggaaccta ccttgttttg gctagcgggt acagactttc 120
ttactaaaag gtgggtgtat ttcctagaat agcattttct gttgagtaga gatgattttc 180

agcaatgtgg ctggtcactt agcttcaaag taattattga gtgtgaaagt aagcagttgt 240
aatacttttt aaccactgtc tgtgttctta ccaaatggaa aacaacactc gtcttgaaac 300

<210> 2215
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2215
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tcccggccga ggccccagtg catggagaga aggaagaaat caatttccta attggtacca 120
tatacatcag atggatggtt tctagtgtgc ttccaaaccc cacctcggct gagtgttggg 180
cagcacttct acatgatcct atgactcttg atatggacgc agtcctgtca gactttgttc 240
ggtccacggg ggcagaacct ggtctggcca gagacctgct ggaagcaatg ttcacagcat 300

<210> 2216
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2216
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tgaacttatt tacctcctta gccctatgta acaggtaaga aactaaaagg tacagaaaat 120
agagatgttt gatttttcta agttgcccca agctaccgtt tttaaaaacg cctgcaagca 180
tgtctaaaac aggagcctgt tagctacagt tgccaaaccg gtttaacagc actgcctcca 240
tgtattctgg gtaagaagga gctccgagta cataaattta tcaaagatca ctatcccaat 300

<210> 2217
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2217
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ctgaaaaaat cctatttgtt ggagaatctg tccagatgtt tgagaatcaa aatgtgaacc 120
tgactagaaa aggatccatt ttgaaaaacc aggaagacac ttttgctgca gagctgcacc 180
gtctcaagca gcagccactc ttcagcttgg tggactttga acaggtggtg gatcgcattc 240
gcagcactgt ggctgagcat ctctggaagt tgatggtaga agaatccgat ttactgggtc 300

<210> 2218
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2218
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acatgatgtg ggttggggtg tcaattcatg gttaatacaa catgtgtggc tcagtataac 120
cagattgtca taagaagctc aggcagctct ccccctctgt tgcctggggc ttttcgcagt 180
tacaataaaa gtggaaagat gaagaataag ggcaagcaga agacacacac atttgcctgt 240
ttccctcttt ttgtccagat tgagtagatg ggaggcaggg ctgttaccca tgatggtgtt 300

<210> 2219
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2219
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agattttgcc atcctacatt ccagtgaggg ttgctgaaaa aatcctattt gttggagaat 120
ctgtccagat gtttgagaat caaaatgtga acctgactag aaaaggatcc attttgaaaa 180
accaggaaga cacttttgct gcagagctgc accgtctcaa gcagcagcca ctcttcagct 240
tggtggactt tgaacaggtg gtggatcgca ttcgcagcac tgtggctgag catctctgga 300

<210> 2220
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2220
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gcacggacct tgctccagca ccggccctgc tcagccagat tttcagaacg agagggatat 120
tcttatctgt ggcaaagaat attctctata ttctgtatac atcatttgag acttaaatgg 180
gtttcaacag atccattctt tttgtagatg taggaaagtt tgacatatga ttgttctttg 240
ccaaatagcc acgttcgcgg gattcctttt gatggaaatt atttattagg acttaaaaaa 300

<210> 2221
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2221
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gcatggacca ccagtggttg ttgaggtggt gaagtgtgtc cccgttaact ccactctggg 120
cagtgaactg aagagggagc aaagcccagg aaatgggcct tcgtggcagt ggtggaggta 180
gagtgaccca cagcaaacct ccccacttgt ccctgaccat tcagtagttc cagaggcagt 240
gagcttggaa tcttagcaag agagatcttg gggtggggtg tggactttcc acaaaggcat 300

<210> 2222
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2222
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gattgtgtct ctgtctttcc ctctgtcagt gcagccagct tattaaggcc ctaggtgagc 120
tcccagcttt cattgttatc actgactaaa acccttgcct gttgatattt gctgagtgtg 180
gaagaattta agctaatgag gaaggagttc accaaatttt acaaggtcta aaaacagtta 240
gaatataaac aagtgatccc aaggaaggaa caggatatgg tttattcagc tagtctcaaa 300

<210> 2223
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2223
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tcttggtgat attcgcctct ggcaacctga tgcttgctac aaacctattg gaaagcctta 180
aaccgggaaa tttccatgct atctagaggt ttttgatgtc atcttaagaa acacacttaa 240
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<210> 2224

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2224
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gtggattcag ggtaaacttc tcagactgtg agcctgagag ttcctctcta ggaggctcca 120
caccattctg cctgctagat cggggccaga tgagatgaaa gtcaacgctt gagaaagaaa 180
accaacatgc attaactgaa acaccgtctt cacttgttca tccacagggt atagagcgag 240
ttccaagaac caggctagga aatgacacgc taagtttcct atttctagca gctgccaagg 300

<210> 2225
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2225
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taagccagga atcaggaagg aactgcagat ttcttagaaa gttgtagtgc tctatgaggg 120
cacttagcca gttgtttttga ccgactaggc agataatcac actgagctga tacaatcgtg 180
gtgctaaagt atcataatta ttaaaatatt agtcctatgt gttctcaaca catgtaaagg 240
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<210> 2226
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2226
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tggaattgct tggttgtgtg gcaattctat gtttagcatt cgaagaaatt cattgaatgg 120
taagctgaaa agtgacgtgg ttgaatttct gatttcagaa agatcactga tgtgatgaga 180
atgaataact ctctggagtg ctaggatgtg ggggcaggga gctagcttag tatattattg 240
caaaatcttg ccaaagatga gctgatcaaa tgagaggaag catgaactaa gaggggagca 300

<210> 2227
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2227
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cttatttaaa aaccttcact tggttaactt tagaaactca agaattataa actcaaattt 120
atacttcttg atacacaaac ttaagaacta aagctatctt ctgactcttc tatttgaaaa 180
ggtactaaca cttctttccg tcagtctctc attcttcatt tttgttggta tcctgtggaa 240
tttttgtcta gtctagtaaa attaaattat tatcacttta atgttttgta gctctttttt 300

<210> 2228
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2228
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agaactgatg ttgaaaatga tgtctactct ggaggcagat tccattttac aggcattaac 120
aaatacatct cctacattat cacagtctcc cactggaaca gatgattcac ttctaggggg 180

tttacaagca gcaaaccaaa ccagccagct tattatacag ttatcatctg tcccaatgtt 240
aaatgtttgt ttcaacaaac ttttttccat gcttcaagtc catcatgttc aggtatgact 300

<210> 2229
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2229
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cagggtcaca cagcagggac tcaggaaaaa gaacaagatg agctgagtgc tatggtgtgc 120
aggcgcacgg ctcagtccac aggatcccgt gctgccccag gtgctctcac ctccttaggc 180
ctgcctgggt catgggtggg gtggtcaata agatctttcc ttggctccag tctctgcctc 240
cagcctcctt gactagccca cctgcttacc tttgggtgga tcccagaaac ctacggtctc 300

<210> 2230
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2230
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agtctatagc atggtgataa aaacaggcct caccctcttt ctctacccac acaggagcat 120
ctcagcttga cttcagggat ccaggagcca ccagccaccc tgtaaacagc ccagattaat 180
cctgggtttc agtgtcatgg gaggaaggaa ggatgaccta gtaaagagca acttacttac 240
tttctttggg gtggtaactc attgctgaac tctggatggc actggtgcgt tcaaggcaat 300

<210> 2231
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2231
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cttctgcact atcaagtgtc ttctacttcc tgcttaagtc tctgttgtcc atttcattaa 120
gacagaagtt tctattattg ttaaatttga actgtatcta tgttataata gtaatggtaa 180
ctcaatccaa aggacctaat aacaggaagt aacatgtctt acatatcagt ttatatttgt 240
ttttttgtag ggacatactg tgatcttggt atacttgtaa ttttttagtt tcctggtcgg 300

<210> 2232
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2232
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ccagtagagt ttgcagctgc atggagagat gaagcaaaac tctgaacatt caactgcatt 120
aaaaaaaaat catgccaaga gggcctttga gcaagaaatt cttgcagatt tatgacaccc 180
gatgcctgaa ctctgtgtgt gacatcaggg ttatggctct gtaagctctt aaccctgcag 240
ctgacccagt cagcttctgg ctgtactagg ggttgatgcg gttcactgtg gttgtttgta 300

<210> 2233
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2233
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ctgatcaatg ggacaggaca gggagtctca aaatagccat aactgcatat aaacatctag 120
tatatggtta ccacagtatt caattcaagg gggcaaaata gagacttttt aataaatggt 180
gttggaataa attatagtta tttgttcaaa gagttataat tttatgcatt ccttacacca 240
tgcactagat gatcctccaa atggattaga ctgaaatgga aagaaaaaaa gggtgaattc 300

<210> 2234
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2234
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gggtggttga agtcattaaa gtcagagagc caaaaatacc taacagagtg gagcgaaaaa 120
agagccggac agaacagtga gaataatata tcactgatgt aaaaacaact catatgatgc 180
ttgtaaatgt ggaaactata actatccctg gaggggtata gagatgagtt caattaggag 240
ggaaactgag tgacaggagg acaaaattgg aagggagatt tttactgtat aactttgtat 300

<210> 2235
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2235
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tcggactaca ggcatgagcc actgtgcccg gcctgttatt gttgtgttgt cctgctttta 120
tggtgcttct ttttctttat ttgtaatagt ttcccctccc actcccactg ttttcttaac 180
atggagaaac tttttttttа attgttccca gtgaatgctg tctcttccca tgttgactcc 240
attcacttgc catgaattga cttagtgcca gacctctgtg ccttcttcat gtaaccagct 300

<210> 2236
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2236
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ctttgcgtgt cccctcagcg ctgcagggcc cactccttcc tctgtcctgg tctctgctta 120
gccagcgcac ggtcagggag gcatgggtgg ccagcccgca aggagccagg cctcccagca 180
ccccttccct tgtgtggcct cctcccacat gggatctcag ccggtcctgg cttcaactaa 240
acaggacgtg gcaggcgtga tgccctgcca attccaggcc taagccttga cacagcctgg 300

<210> 2237
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2237
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aggagctttt gaaaaggaag ctggaacagc aggagaaagg aaaaggacat acattccctg 120
ggaaaggccc cggtgaggtg ctgcctcccg gggacagagc cgcagccaac agcagccacg 180
ggaaggatgt gtccagaccg cctcatgcca ggaaaactgg gggcagctcc cccgagacca 240
agtatgacca gccccctaag tgtgacatct caggcaagga ggccatctct gccctgtccc 300

<210> 2238

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2238
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gacaaattct tactttatct gaatttagaa gtccttaaaa tttcattcaa attcaatttg 120
tagggcattg aattagtggc atttttctct gataggtttt ctgtatctta tgagaaattt 180
tactatacaa tcctcgtatg ttcataggga gaactgatct gctttcacta aatccagagt 240
atgccagaag atctgaccat aagatactta atttctggta aaattgaaag ttttttgtt 300

<210> 2239
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2239
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atggtgtaag cataaggatt tattgaatga agtatgaagt gtggttttta tttgaagtca 120
aatatttggc agttggtgtt catttattct ataaactttc aaaacagatg acaagtttta 180
aggaaatggg gcctaatacc aaatttggtt gaattaatga attccaagat tctttctagc 240
tttttctttt taaagacagg gtctcactct gttgcccagg ctggagtcca atggtgcaat 300

<210> 2240
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2240
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tgatttccat ccaaggtaaa attctagaat ggattattaa aaggatctta accaaataga 120
cttggaaaca taatcagggc atgtgcacgg tcctgtcttg gagtaaagaa aactatttgt 180
acagaagagt agagacctaa tttagcattt tccggcaatt tgacattgct ctagaagttt 240
atgagagaga aatgcagatt atgaaattat ttaaaaatat acctcagagg agcagggaat 300

<210> 2241
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2241
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gagccgcaga gaagagcatt ggcaccaagg agcaagaggg caccccagc gcctccacca 120
agcacattct ggatgacatc agcaccatgt tcgacgccct ggctgaccag ctggacgcca 180
tgctggactg agccctccag cagtgcccac tgtgacctgc cgaagtccac tgcctttgcc 240
ccagcacaga agaggcccct gccaccctag ggacgggcca agggctggtc aggctgaagt 300

<210> 2242
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2242
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ggctggtctt gaactcctgg cccctaatga tctgtctatc tcaatcaccc aaagtgttgg 120
gattacagat atgagccact gtgcctggcc tatttctgac tttttttctt tttgtatata 180

agaatatata tttcgagaca aattgtggat tataaatgga tgcttattta tctcgactgc 240
ctttcagacc ttttcccccc agccaaccag tttttttctt ctcaaagaag acacaggtga 300

<210> 2243
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2243
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gtattgtaca gatgtatctt gaagattata atcttggttg attattgcct attctcactt 120
taggaataga tggtgatagc ttatgacttg tgttgtataa cgaggtagaa atattgctgt 180
cttctctgac atagcttctc aaagagatca ttaatgtatg atatctaata aaccatctaa 240
tgcatgtaac agtgatcagc aaattaataa attagacctc tattcatgct taaattatca 300

<210> 2244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2244
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caaatacaaa tatctttcca gttagtgcat tccctcaaat tgaacttctg gctgcaagga 120
aagctaggaa tgattatggt tttgttagta aggaaaatta tcaaaatgga tattaggttg 180
gctactagca gtcttggcct catgctttca gtaaatagtg tgcacttcag atcatgtggc 240
attggagaaa ggaagaacat gttaataata taacatggtt aggtcatgga gtcttgatta 300

<210> 2245
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2245
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tggagattag cgtctgggga ataaagaatg agctggaggt cttaaatgtc tcgtgactgg 120
gacaaaaaca gtggttgaga acatgatggg atttttccac atggttgtta ggaaagttgc 180
tatatttgag actgtgaatg tcagcaaagc tgaggaacag gaggtcttcc atggagtaca 240
cagtgcccta gagcatcgtc ctttgaaacc cgtttccttt tatatccgtc catagaggcc 300

<210> 2246
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2246
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aacagtgatt cagtatatct gaattatgga ttatatggcc atagaactac aagcaaaaag 120
gatacacaaa caaattttgt agttaagaca aatctgttgc actaagatca agaaatgtaa 180
tagatggagg ccatgtagag gttagaaatt caaagaaatc gaggtcaaaa actggccaat 240
cataacggca tagggattag ttcctaaatt tggtcacttg agaataacag tgtgaataga 300

<210> 2247
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2247
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ctggatttgt ggttttagaa agatcatttg gcttctgtgt gaaagaggcc aaaaccagga 120
gcagaaagac cagttaggaa gctgtgacag cagttgagag acgatgttgt caaagtctgc 180
agcagaacag aacaggggtg accccacatg gacatcatct ctgctcttca gtcacctgta 240
gtgcagagtt ttgaagtagg tctgagcatg gaaccgtagt ggttgggaag gaaatgccat 300

<210> 2248
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2248
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acctaaatga gagttctggg gaagagtggg attcctctga agaagaggac tctatggtgc 120
ccaacttatc gcctcttgag agtcttgcct ggcaggttaa gtgcctttta aaatattcca 180
caacttggaa acctttaaat cctaattcct ggatgtatca tgctaaactg ttggatccaa 240
gcacaccagt ccatatactt cgagagatag gtctaagact ctcccattgt tcccattgtg 300

<210> 2249
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2249
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tggaatatct gggtgaaagg ttcttgtatc ttttctgtaa gtctaaaatt atgccaagat 120
aagtaaaaac aaaacaccta ttttcttttt acagttcttc ctatttttca tggatttctg 180
aaaaggcaga gactagaaga aacttgttta gctatctcat tctgctcatt taggggctct 240
acttttaaaa ttaagatggt aaaaggaaag cattttaccc ataagtaaaa gaatgcttcc 300

<210> 2250
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2250
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tttgctgttg ttcagttttc tcaagactta ctgttttaag cttgtaaaat taatgaacag 120
taaaatagca gaaaatagtg atacattgga tgattttaat agttttatta gtgagatatt 180
tgaggtattc gaattactac aattctttcc aatcctacaa gttaaaaatt ttgttatggt 240
tgctgacttt taaatgctgt ttattctctg aaggcagttt tatgatgcat ttagaaaaaa 300

<210> 2251
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2251
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aggtgatgcc gtgtacatcc cactgtattg ccttgaaggc acaggtatga gaaggcacag 120
gtgtccggtc attccacttt cagcctgtga ttgaccagtg ggggcagggc tgtgtgagtc 180
tccactttat agcgcccatc agactcccct ctcatggttg tagcatccat tgctcatagt 240
tgctagagcc atgatttcat taaaggttgt caagtgatga ctgtctaatt tccatttatt 300

<210> 2252

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2252
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ccacctgtgt gtaaacaaac aaaactacaa agaaattttg tacttcactt agttggtagt 120
gatctggtat agcaattctg aaaatatttt ctgtgtattg taggattaaa caaataagta 180
aatataatga tattcttggg agctgggatc ctcactatga gagaagaaag ataaaaatat 240
ggagtgaagg aaggcaaaga agagctccat gaattggaat gagagattcc acagattact 300

<210> 2253
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

<400> 2253
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agcacctggc ctggctgaag caggctgtgc tcgggttcca gcttccgcag atggaccttc 120
caccctggg ggcccccctgg ctccccgtgt gctccatggt tgtccagtac gcctcccaga 180
tccccagctc acgccagaca cagcctgtcc tccagtccca ggtggagaac ctgctccaca 240
gaacctactg tangtggaag ancaagagtc ccttccagtc catggggnaa agccct 296

<210> 2254
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2254
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ctggtaatgt gaattattat tgcataaact atagtgctga ggccccagtc tttacacttc 120
catttaataa cttcacagtt tcatatcttc ttgagatact tactaatttc aagtcccatc 180
ttggtcacaa ggagttgtga attagagaac aattaatatc accagttaaa gaagttagat 240
tagaaatctg aaccatccta aacataagaa gtacctgcat cttcagagtc ttatcccaaa 300

<210> 2255
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2255
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aaaagagaaa agaaaagaaa tctgaaggtc tgacaaccct tggtccccat cctcctatga 120
cttggaccta agtcagagct gccctcttgt aacagggtgt ggcccctcta tttcactgta 180
gtctgcttca ttccctgcag cctccttgat acgaagatgc agtgacaggc caggcactgt 240
ggctcatgcc tgtaatccca aggaggccga ggcgggcaga ttgcctgagt tcacgagttc 300

<210> 2256
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2256
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gttagaaagt agtgatccct aagaacagtt ggagaaacat atggtttgtt ctatagctgt 120
aagcggtaat tttgaagcaa ttttgaaagc attctttccc tttaagaaaa aaatagtttc 180
ttactgaaat gacttttag gatgtcttga aaaacgtagt gaaattcatc tagaaactta 240
caaggttgat gctagccatc acatgcatgc tgcaatttgc tgaaatgtct tgatccaggg 300

<210> 2257
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2257
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actggctttc catgtaagca gagcacatca tgtgagcccc attcgtggat gtcagtcagc 120
agaacagaat cttggacctg gagcttgttt gtcctgtgct agaggttgga ggtgtctctg 180
tctttctgtt ggttcctgtc agttcaggtc acttagagat tctgttacat acaccagctc 240
tgacaggttg ggggagatga tcaaccttcc gcctgcgcct gttcccttcc ctgactcatg 300

<210> 2258
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2258
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gggaagagga agtgaagttc ctttttgatg gtgttgagtt tgagatgtcc agtaggcagt 120
tagaaatctg ggagggccgt tgagctcatt agtctagttt tgggaaacgt gtgtgggtaa 180
ggtaggggtt gaggatatca cccagggtga caccagcctt tcaggggcag aagggaaccc 240
caccaaggcg actgaggagt gagcggatag tttcaatttc aaggaggggg aaagaggagc 300

<210> 2259
<211> 239
<212> DNA
<213> Homo sapiens

<400> 2259
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gtttttgtat gtctaatata cagagaaatt tccaaagact ttttaatctt tgcttagcat 120
aaggagttta gtcagtaact attacaagga aaaaatgatc agttttcatt tgtcagttct 180
ataagcccca ggcaagtttc tttcggtttt gactttctat taattaacca tatcctaag 239

<210> 2260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2260
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ttttgatttc atatagctgt atcttaatat atcattgttt ttaatatgtc tacattgaat 120
acttattact tgtgcaatga aaaataataa ttaaagatga aagttaagcc tgttaccact 180
ttcagagaac aacgtgacgt tttggaattt aaaatttttt cagtagattt gagaaaaact 240
tgggttaaaa tgaagattta tgctcagaac tgagattcca gggtttaagt ctggttttaa 300

<210> 2261
<211> 300

<212> DNA
<213> Homo sapiens

<400> 2261
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ttctacagta aaaaatgatt ttatataact tttggtatat aagtctcaaa aagtgtgagt 120
cagaagagat gaaacattat atttaaaatt tcatatcaaa gcttctaata caacgttgct 180
agagccatgg cttggaaata aatcaggaaa aaaccctcaa atacagaatc agttgtgtta 240
atgcactaga acttgccttc tgctttaaag ccataattaa tcatttaaat gctggataaa 300

<210> 2262
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2262
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ctgtggcggg cgcacgaggc gctgcgaacg cagctggagg gggcgcagga gcagatccgc 120
aggctggaga gcgaagcacg aggccgccag gagcaaaccc aacgagacgt ggtcgccgtc 180
tccaggaaca tgcagaaaga gaaagtcagc ctgctacggc aactggagct gctcagggag 240
ctgaatacac ggctgcggga tgacagggac gcctgcgagg ccaggcgggc gggcagcagc 300

<210> 2263
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2263
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tgcttttgtt ccccatccac gtccccccca gtgctgaagc tgtttcgtgt gtccttacag 120
tgtttcctct gcacttccac ttgtggttga taagtggcag ggggacaata aatagagttg 180
atgaaagatg ggcttgggca gcagtgggcc caagtgaggc agaaatgaga aaaggactcc 240
tggggcagag gtggagtgac aaagccttga gcacgagggt gtgaaatgtg aacttggtgc 300

<210> 2264
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2264
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cttgtcggag ccggctcggg gacgcagaga ctgcagctgc catcgaagag gagatctacc 120
agagcctgtt cctgcggggc ctgtccctgg tgggctggta ccacagccac ccacacagcc 180
cggcgctgcc atctctgcag gacatcgacg cacagatgga ctaccagctg cggctgcagg 240
gctccagcaa tggcttccag ccctgcctcg ccctgctctg ctcccccttac tattctggca 300

<210> 2265
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2265
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atttctagta ataaagcatc ttccgactcc acattcttat ctctgggcag acattttatt 120
cttaagaatt gtagtgattg ataagaagct aaatggagat gattaacgtg tcaatgatta 180
ataattataa caacattcaa acacttagaa attatagtat ttcatcagat gtctttttaa 240

agaggcattt ctggccagtt gtggtggctg acctttggga ggctgagacg gctggatcac 300

<210> 2266
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2266
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tagtttatgg cagggaagat ctgggaagta agcaaaaaga gcctttagtt aggcaacata 120
gaacaaaata gaggtcacag gttccatgca ctgaagaatg gaattgaaat agagactcca 180
gggtcataga ctcttggaag gaagactaga gtacattcat gaccctcacc cttaattact 240
tcacaggtga gaaaaccaag agctacagaa aataagttat tcctcagctc cagggctacc 300

<210> 2267
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2267
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tccttgaaaa atcaagatgg attttaataa tgtattaaga ataaattgga tttgaatcaa 120
cacaggaaac agggatttta cttagagact atttcagtaa ttttgaaatc attgcccaag 180
attgtagttg gtttgtttat aatgggtagg ttatttattt gtgaatccca aatgtactcc 240
atcaacattc cattgaataa tttacaaaag caaacagcag gggtttatgt tttctcttct 300

<210> 2268
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2268
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ggatggtctt gatctcctga tcttgcgatc cacccgcctt ggcctcccag agtgctggga 120
ttacaggcat gagccaccac acctggccac agaagggatc atttctaaat agcatagaat 180
cacagggagt acacctcatg tgacttcacg tttagagtca gcatttgctc ataatgaatt 240
acatatcagt aaatgaacat gacatgcttc aacttcaata atattaaaca aaactctttc 300

<210> 2269
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2269
cccagggagt ggggaggata aggcgctgtc atggaggacg ccgccgcgcc ggggcggacc 60
gaggggtcc ttgaaaggca aggagcgccg ccagctgcag gccagggagg agccctggtg 120
gagctcaccc cgacccccgg cggcctggcc ctggtgagcc cctaccacac ccaccgggcc 180
ggggacccct tagacctcgt ggcgctcgca gagcaggtgc agaaggctga tgaattcatc 240
cgagcaaatg ccaccaacaa gctgacagtc atagctgagc aaatccaaca tttgcaagaa 300

<210> 2270
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2270

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cttacatagt gggtactttg attatgtgtg ataatactgt gctgtgacaa ataatataat 120
gaagaaatta ataccaagat tgctattctg aaagattaaa cattctttaa tacttagatc 180
tttcatctgt ttatgtaaca aaccctaaca tacaggctta atgccttgca gatattaact 240
tctttaactt aatctttgta acagtcccat gaagtaggta ctattattat tacattttcc 300

<210> 2271
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2271
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gctgtgtttt aggacagcta tcctagagct atgtgtgggc agagagtagc aagcaggtta 120
gttaggaggc tagggtaaaa aggcagacag gggacacatt tgtcatatgc cctagtgagg 180
cacagaatca gggaacagga ggtctgcagg tttcaggaca ggccagttca gggagaaaag 240
ggactagccg tgattatcag gtcactggtg atttatttat cacttccttg aagtattaaa 300

<210> 2272
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2272
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cacagtatta cactataact acgttataag tgcaatagat atgggtacaa taaataaaaa 120
tagttgagga gaaaaaacct ttagaccatt cattataacg tgccagactg ataaggggaa 180
aacccccccat gtcacatgag agaaataaaa cccactgcca tttctctgtg cctgggtaac 240
tgagttgatt gtattcacca gaaggttctt gttctgcctt ttagacctgc ctgggtcatt 300

<210> 2273
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2273
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tgtcatatct caggatgatt tcttcaagcc agagtctgag atagagacag ataaaaatgg 120
atttttgcag tacgatgtgc ttgaagcact taacatggaa aaaatgatgt cagccatttc 180
ctgctggatg gaaagcgcaa gacactctgt ggtatcaaca gaccaggaaa gtgctgagga 240
aattcccatt ttaatcatcg aaggttttct tcttttaat tataagcccc ttgacactat 300

<210> 2274
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2274
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tggcattttc cataataact gctgatatca tcaaggtaaa gagagctgct tctcctaact 120
acccatgaaa gaatttagct ttttatattt ctacctctcc catatagttt aatctctccc 180
cactgcgagt atgactgact ccaaggtatt gaagtctgtg ctctaattgg gaattcaatg 240
aacaagactt cagtgaatga actttttag ccatattata taaaatgaaa aaggatctgc 300

<210> 2275
<211> 300

<212> DNA
<213> Homo sapiens

<400> 2275
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caagttttac ataacatgct tttggtatgt attatgactt tttacatttc tacttggatt 120
tcctctttcag atctcagttt ccacaaatct gcatccaggt tcagggcctc tgattctgca 180
caaatcatat gagccaagtg gattgattac tagacagatc agatccttcc ccagctaata 240
actctgcctt ctgattccag tcctcaaaat aaattgcagc ctgccatttt ctttatgttt 300

<210> 2276
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2276
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tgctcggagt gaccagtgag attgttccac agcatgtata ttataaaaca aatattaggc 120
agatagctta taatgacttt ttaatattta tttattcatt tattttataa taagcagaca 180
ttgggacaag aaacttctga aaatatttat agttctctga aagaaggtgt cttcccttcc 240
ttctgggagt taaggaatgt tttgacaagg aagaaagatg ggtgaataag agtgtattgt 300

<210> 2277
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2277
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cttcccccaa caaccttctg catgcgattc tccatttcag tctgtttcca agagaatcca 120
tcccttcctc aagaactgtg ccctaacatg gagtccattc caaagtcagt accagtgata 180
attgagcaat gggatgatag aatgtagatg aggcagttag tggttccagc aaaccaaaaa 240
gatggcaagg cagtgagaga ccagcagtgt aggaaacagc cagctatatt cattgaaaaa 300

<210> 2278
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2278
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ccattcattg gctgtttttt aagtatgatg ttgtaaagtg cagttagaat aaaaagaaca 120
gaaaaaaata aagtagggtt tggaggaaga tgggatgcac atgaaaagat aatggcagca 180
gtagaggtga gggaaggagt ggatatgggg gaatgatttt ataaaggtca tgaaactaga 240
atctgagtga gggaaaagct ttaaaatatc tgtgtctctt ttctagaggg tggataccct 300

<210> 2279
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2279
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gtgcacagtt ctgaaataag gagaaaatag tactcacaat ctagttaggg aggcaagact 120
aacaagtgag ctttaccgtc agtaatatgt agtctgagtc tgtgccatac atatttggat 180
aataggtgaa tggtggggta cggaggatgg acaacagtct gctggaactg gagcagagtg 240

ccccagcctc cacagtttgt cattttgggc cagacagtta tctgttgcgg gaactcctcc 300

<210> 2280
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2280
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agttgcctta ggatgacagt gctgacaccc agtaggaagt atcccatttt tatcaggaaa 120
gtcagtcacg cgtagggatg gtgaggagac gcgtagggat ggtgaggagg ggagaggagg 180
gagacctgct ggtgcccttg caccagggtg aggcctgact cacgctgctt ccccccacag 240
gccctgcttt gcttgcctgc tttttccaga atcgattttg caagcttcaa gattctgttc 300

<210> 2281
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2281
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ctctgggagg atcccccacc aagaaggcag taaccttcga cctcagtgac atggacagcc 120
tgagcagaga aagttctgaa tctttttccc cgcctcacct cgactcaacc ccgagtctca 180
cctcccgcaa gatccacggg cttagccact ccctccggca gatcagcagc cagctgagca 240
gtgtcctcag catcctggac agcctcaacc ctcagtcgcc gtcgctcgct cctcgcctcc 300

<210> 2282
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2282
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cattgttttg gacctaaagc ttgaagaacg gtttatgtat ttttctcctt aagtagcatt 120
gcattgagtg ttaggttctt ttccctttt ttcattcttg gtcttcccaa agcttcttcc 180
cacatttcgt ttgtgtctgt ttccaccatt catagaaacc ttggaaccac tctcacagca 240
atgctaggat gtttcatgga cctgttaagc attttgatga tacaagacat cctatcaatg 300

<210> 2283
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2283
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ttctgcctgc caaacaaatt atattctgaa gatgcctgtt ttgtaaccct tgatgtgaat 120
tttttggtgt ctgaaattta caaaagaatg aaattgaaat tgtaaaacac taaatgcttt 180
gggtttattt tgaagtaatc tgttacttta aaatgtcaac attaggaagc cataaaacaa 240
gatattatga aacccagtat tataaatgtt atctacatct aaagtatttt aaaataactt 300

<210> 2284
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2284

caaaaataat agaaaaaaaa acagaatttc cacaaacccc cacctaattt atctgcctcc 60
tgccatcagt gccaatatac tgtgcttttc ttctgtggat acattattta ggccactatt 120
cagggccaac ccctccacct gcctactaga ggccatcacc acttgtttat tcaagggcac 180
agctccaggt agttttcctt ctcttgggga tcatcagttt ccttctgtct accaggtcat 240
tcccattagc atgtttttgc cgcttttctt aagagataat atctcaaccc taattcctcc 300

<210> 2285
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2285
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ttcctcccaa aacaccttca gtgtttggag aggctattat gtcaataagt aaagaacatg 120
ctactgtgaa aaaggtacag gaacaaaaaa gagttgccaa aaataaaaaa tattattgta 180
aggtaaaaaa tttcataaat gggcctaata gtgggatgga tataactgaa aactaagatg 240
gtgatgagga agacagtcaa gaataaatat accaaagtag caaagaaata cctgtgcaag 300

<210> 2286
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2286
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gtctatgttt ctaagctatc tttagatttg taaaagggct aaaatgttac ttttaaacat 120
gtttggttta ttcaaatttg tttataaatc tctcctttgt acccctggct accacccctc 180
cccactcctc tgcctaaaac taagggaaaa tcctgtcttt gcccatagct tcagaatgtt 240
ctgcaatttt agacttttac ttttaactga tcactgttaa gcaagggagg aaatttacca 300

<210> 2287
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2287
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ttttcactac ccccgcctgt ctcagggaat agcctttgat aagaatccca tggagatctc 120
tggaactcta ttacagtgtg ttcagatttg ttagttcata tgtaaatttc agagctagag 180
cttcaaaact agagtattgt aatctcagga acataagatt atccaagaag cctgaacctt 240
gctcttttca tgataaatga catccaaatt tcctttgtct aggagataag catagatccc 300

<210> 2288
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2288
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tctgaccaca agagctaaac ggaaatacct tccgctgtcc ttcccaagtc acagagcaaa 120
cacctcagtt cccaggggtc cgcatcagtt ctggtggagg cggtgactgt gagcgtgacc 180
agctgggcta attcgtcctg acatttagtt gggacagcta tagtttccta cctctatgac 240
cagagagtga agcgtttcac tgaagaactg tggccggcgt ctccaggaaa ggaaggagcc 300

<210> 2289
<211> 300

<212> DNA
<213> Homo sapiens

<400> 2289
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gatgcttccc ttttttggtt ttccccgggc tttccagctc ttggagcacc cttttgtcag 120
cagatgtact tttgtttcca gtttttaaat tctaattaca gtgtaactca actaaaatca 180
tggaactggg gaacataaaa caaatcatta gggtaatgga ggcatagaag aaagtgaaag 240
gaatccagtc cacctctttg ctgtactagg tatggatatg cctcagctgt gagtgagggc 300

<210> 2290
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2290
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atttgctctc tgaatgctgt tttatggttt atattttcca tgtttttata tttttactta 240
ccatgtaata tatatttttc catattacct agtatttgaa atggtaaatg gctttataat 300

<210> 2291
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2291
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gtatttccca gcgaatagaa tttactgctc caaaaagctt ttttggcata aatcacaata 120
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tcacaaactg cacattaggg caatttctta cttatgagga ggtacaaaga aatactctgt 240
caatatagta taactgctta tttcaaattg tatctaggaa tgaataacta ctattattta 300

<210> 2292
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2292
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catttacagt gctgtgtgca gtgaacttct gtagcaccca aattgtggtg ttgggaaaaa 180
ccattccacc ttaaaagaaa ccaagccttt ctggcaaaat tgctgattct aggttttggg 240
caagaaatgt acatgctgag ctggaacatt gtcataacag ttagtaagga ggctgttaaa 300

<210> 2293
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2293
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agatgtagaa tcagagaact cgagaggaac agtatgcttc atttgagaca cagccagaga 180
tgagttcaca ggaaggatgc tgggtgtaca tccttaggcc ttacccacct acctatttca 240

gtcttctctt aggggtcccc atatgctgaa cccagcctga agctaaagga cttaagagcc 300

<210> 2294
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2294
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ctcccgccgg tgcccgctca gaagttctcg gcgctcacgt ttttgagagt ggatcaagat 120
aaagacaagg attgtagctt ggactgtgcg ggttcgcccc agaaacctct ctgcgcatct 180
gacggaagga ccttcctttc ccgttgtgaa tttcaacgtg ccaagtgcaa agatccccag 240
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<210> 2295
<211> 300
<212> DNA
<213> Homo sapiens

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gattcatata tcaaaaatgc atgattctgg cactaaatca gaatatttgc atatcttacc 120
atttacagtg ggtttttaaa tttgttttta tgtcatatca ctaatttgta gcaagtagat 180
tttctggtgg tgtaactgtt gctaatgata gtaaatgttt catagactag ctgaaacaca 240
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<210> 2296
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2296
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tgtcctagat gcactgagta aaattccagg gatgccgttg atcataaatt tgttataatt 120
tttaaaaata gactttaaaa tttagattta cagaaacatt gcaaagatac tgcagagttc 180
ctgcctatcc tacactgttt cccatattat taacgtctta catccctgtg atcatttgtc 240
tgtattaata aaccagtatt gatacattat cacagagacc atactttatc aggtttccac 300

<210> 2297
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2297
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agctggaccc cagcactggc cggcggttct cggagcacaa actctgcgcg gacgacgaat 120
gcagcatgtt aatgtaccgc ggtgaggctc ttgaagattt cacaggcccg gattgtcgtt 180
ttgtgaattt taaaaaaggt gatcctgtat atgtttacta taaactggca agaggatggc 240
ctgaagtttg ggctggaagt aaatgagatg ccacctgtgg tcccaactga caaagattaa 300

<210> 2298
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2298

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attccttccc tcctcatcct tcaaatcccc ttcctcatca ttcaaagtct aactcaagct 180
agcctttcct ccttattttc cccttatctt tccaatccgt atggagattt ctcacctttc 240
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<210> 2299
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2299
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cagcctcctc tctaaagggt tgtgacagga actgtcccac tgggaggcct gtggctgtgg 120
agtgcactca tagcctccac tgtccgtaaa gggagccata caaccagagt tcgtcctgcc 180
ccaaaccctg ccactcacaa ccacatatgt acagtcagat gccatataac aggctgcata 240
tgtgatggtc ccataagatt acaatgaagc agaaaaatcc ctgtcacata gtgacatcat 300

<210> 2300
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2300
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ctgaggtgac acgctagtga cagcccaata gggggttacc cttattgagt aaaatacttc 180
agattgacag ctcaatctta gtttgcctcc agttaatctt ttatgcttag ggattaaatg 240
tgtggttttt tttttgtttt tttttttngn aaacggattn tcnttttgtn ncccaggttg 300

<210> 2301
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2301
agtgggtagc aagagttctg tgtaaatact tgggaggcat ccaagcggag agttaagtag 60
gcactgaata tttaagttga gctgagggga gtgatctaga ctggacataa attttgggag 120
tcactagtat acagatggca tgtcatggaa ctgattgaga ttgtttgtgg ccttaagatc 180
aagccctgcg agactggagt aataaaactc tggtctccca cacagccagc tctgtgtggg 240
gaaaaaaaag ccctaaaaca ctaacaacgg ctaaagcttg ggcaaaggag actgaaaagg 300

<210> 2302
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2302
gctatccctc ctcctgttcc accctccaga ggtagtctct gttacccttt tatttataac 60
ttttatggtt tttttttctg tatttataca aatcgatgca caaagagggt tctcttctct 120
cataaaagtg attattagtc ttcagtgtgc ctttttttct cctaacaaat gtaaactggg 180
agcattttcc caagtacata tttataatac ttacggngcc tatctagtat tctgtgaata 240
tatactggta atttattcct tcccattgac agacttacct tgtttccatg tattgccatt 300

<210> 2303
<211> 263
<212> DNA
<213> Homo sapiens

<400> 2303
acttaattca cttgagtaga aatttgtaat ttagccatag gaatttagga agtgttagtt 60
acaagaggta acttgaagct gtggacatga tgatagcttt tgttgcataa ttagaatgtg 120
ccaaacactt tgctaagtgc ttatgatagc ttttctcttc agaacatcac catgattatt 180
tacagtataa cctgtatttt acagatggag aaatgtacgc aaaggaaagg ggcataactt 240
gcctccaggg tcacatagat agc 263

<210> 2304
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2304
ataacactga gaaaggagta tggtatactt ggtttgaact gtgtgctaca ctaccaggcc 60
ccttccacat tatactacta atttatttaa aatagatagg tatcacactg agaggatata 120
aaaaaaattt ctgcctcttc atttttgttt cttgtttgaa cagaaaaaat gaccaaaata 180
ttgggagtac ttctaaggaa aaggcaacac acattccagt taacacttgg atgtgaaaat 240
atcaatgaat attagaattt ataagtcaaa ctggctctgc tcgctgattg caatttttag 300

<210> 2305
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2305
cccagggaat gctggcttcc tcctattgct attccttgcc tttcctaatg ccttgaatca 60
gtgcattcat tcatttgttc atttcaatca ggaaatatct gtttagcaca aacatagata 120
tttatttatc taagtggaaa agaatattgt aattctcagt gttggtaact gctcctgaga 180
ttttaaaacg atacaacatt ttttcagagc aagttgttga tatgtatcaa aagtcctaaa 240
gacacaccct tttacccgtc aattctacag tcgagtcatc tttctaaaaa aaaaaagaat 300

<210> 2306
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2306
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tttgtgctgt ttgttgtccc tttccatatc tgtatttatg ctacctgtta gggctcttgc 120

cgaagcaggg gtgggaacaa gaaccacaga tatacttctg tggtttgtga agcattgtgt 180
ggagggctgt gtacacagag tacctggggc agttgtcaca gccactctgt gtggtagctg 240
ctactgtgcc catcttagaa atgagaaggc tgaaggaccc acccangcca cncagccagt 300

<210> 2307
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2307
ggaaaaataa catgttcact ttatgaaagg aagaaccagg aaaaataata gaaaataatg 60
aacatgagtg gagatataga tgaaagctaa ataagcattc actgtgtctt atcaagagtg 120
actaataagc tgacagcttt atttgagttc tggtaagcaa attaatatca tataaatcat 180
tacaatttgg ataaagcaaa acctgttatc aaatttaaaa actgtttaat aattcaacac 240
tccagtggtt tgccttgttt aagcaaaagg attctggcca agatatttta cttcagctct 300

<210> 2308
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2308
attctgctga aagcctgctc cccagaaggg tgggaacaat agggacaatg aactgctgtt 60
gttcgttatg tttcatcccc attccgtttc attttattga attgtaaacc gtgtgtataa 120
caacactttt taatcaattt tttaaaaaag agagagtgga aagaaaccgc ttcctacaac 180
agaactgaag agcacaccag tgattacagt gtccagagag gagggtgcat taacactagt 240
tttattattt caatcagatg ccaagcaaga atatatctgg ggttcagaca agaaaggctc 300

<210> 2309
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2309
ggaacctcta caggaatgca gtgggcttag ttttttaata tggaccaggt cttgtttacc 60
tttgtgttcc cgcaaggcct agcccttctt aagttttcag taaatatttt gatattagct 120
tacctgaagg ttttatattg tttatatttc ctatgattta tcagtctaga atataagcat 180
attaagcagt gatgaagtct gaaagtagag aaaacttcag attgtttcaa aataggtgat 240
ttggaaggtg tatttattct gataaagcaa atatatagct gcgatgggaa aatatctaat 300

<210> 2310
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2310
gcaatatgta gtttgccata aaatgaatgc atgtcttatt cttttccata gttcttcatt 60
aatgagactt gtagtcaaga atagattgaa gataccattc tccttgtgta gttcaaaaaa 120
atctcctctg gtaatactga aacaactaat ttttcttatt ttgtttgttc ctctttatta 180
ttaaatacta tgtgaattaa ctctttagta gttggcctgg ttgaagctct gtgaggagca 240
aagcagccct ctccaggtga actgcttgac tttaccacct gaaggagtat ttactgcaag 300

<210> 2311
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2311
ccaacgatct gtatcaacca cgtcttcatt ttccttttcc tgtttgtctt actctccccc 60
caaaaagagt cagtttcctg ttttctcaat ttctcagttt aaaattagag ccctatggca 120
ggtgccatgt acagctgcaa aggtggcaag aagccctgag aaagctcaag aagcaggtca 180
agggggtggg taaggaagat gggacgttca agcagaaaca aaaagaggag ctaaaagtga 240
aagccacccc gccaccagcc ctcaccagtc acaggtggaa ttaaagaaat ctggcaaaaa 300

<210> 2312
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2312
tggcagtggg agtcgaagcg agggtctgaa gttcacgact actagaaggg gaggggagtg 60
gaaaggctct cagtgaaaaa ggtattagaa ttatttctga attatcagtc tctcatttgt 120
gctttggaga agcagaaaag gcaaaagggg tctttggcca tcttctgctg gagcttccag 180
ggaggatgtg tctccaagag accagatgta ccgagtttga aatcccagaa gcccaagagg 240
aaaagaatca cagggaggaa aagactgtcc aaaggctcct ggagtcttct gttctctaac 300

<210> 2313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2313
agcataagaa agctggaaaa taacctataa ataatggcaa aaaaaaagca aacaatagga 60
agaggaacta tataaaagga acatttggag catagaagag agttcatgga aatgtaaaaa 120
atgatggtac cctgggtttg atatagtaag taaaaaacta agggtaagag ggtcatgaaa 180
gcatctagaa gtaggaggga aagccagtca aattcacagg atgaagtcag gaagataata 240
gagcagtgcc cgcaagatcc tgagggaaag caagttccaa tctataagtc tgtaaccctc 300

<210> 2314
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2314
attagatact atagtaggtt aataatgact aacaccttgt catctcatca ctgagctttt 60
gtctaagata gtctctgaat ttagaactgg gacgaaagtg tacataatag gctattataa 120
aatttttaga attggatttc taaacttggg gtcagtgaat ctagcaggct taagcagtgt 180
tctcaggttt ttctggcaca gacaaggaat ataagaggag gagagaaaag gagagacagt 240
agtgggaggg aatagaatga gagaagatag aaaatatgga attaatagag aaaggataca 300

<210> 2315
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2315
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agaggaacta tataaaagga acatttggag catagaagag agttcatgga aatgtaaaaa 120

atgatggtac cctgggtttg atatagtaag taaaaaacta aggggtaaga gggtcatgaa 180
agcatctaca antaggaggg aaagccagtc aaattcacag gatgaagtcn ggaanatant 240
agancagtgc ccgcaagatc ctgagggaaa gcaagttccn atctannnct ctgtaaccct 300

<210> 2316
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2316
taacagtcct atattgttac ctgggcaagt taaatagtcc taattgtccc tgagttgtta 60
gagaatgttt gtgaaccact cagcacagac cttgacagat aggtttttgt tttttgcttt 120
tttgaagtac atgatataga caggaacaca gatttttaaa tggtagctgt tactaagtgt 180
gggagagagc tttgactctg gcagtttggg atggcctttc aaaattgaca agtgtggttg 240
taagggttag agagtaagtt ggtgatgaat gatacactac tctttggaga ataaagagcc 300

<210> 2317
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2317
gatagaataa ccaatttaaa atgtcttata gataaaatct agaatgaagc tttggtaaga 60
agtctgagct acgtacataa gattatcagc aacatatatg ttaaggtgga gccatttaaa 120
gaaagaacag aagggaccta tgatttactg attgttgaaa atcaaaataa aggaggcaga 180
gaaaataaag attgtgagtc agcaggactt ttgtcttatt ttcaagtgga tttattgatt 240
acttttcttc ttacagccaa gtgcaagatt tgtgaatggg cgtttgaaag tgagccacta 300

<210> 2318
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2318
gagttctctt gtgttttact ctttttacag tgaaaccagc agtgtgtgta gcagcagtga 60
cactgggctc tttaccaatg atgaagggcg acaaggtgat gacgaacaga gtgattggtt 120
ctatgaagga gaatgtgtcc caggattcac tgtccctaat cttctgccca agtgggctcc 180
tgatcattgt tctgaagtag aaagaatgga ttctggattg gataaatttt cagattccac 240
attccttta ccttctcggc cagctcaaag agggtaccat actcgcttga atcgtctacc 300

<210> 2319
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2319
gatgtctaaa cttgcatcat ttttgggctt ttcaaagcaa tctccccaaa aaaagaatca 60
tttggttttg gaaaagaaaa cagaatcagc aacttttcgg gtgtgtggtg aaaatgtcac 120
gtgtgtggaa tacgctatct cctggctaca agacctgatt gaaaaagaac agtgtcctta 180
caccagtgaa gatgagtgca tcaaagactt tgatgaaaag gagtatcagg agttgaatga 240
gctgcagaag aagttaaata ttaacatttc cctggaccat aagagacctt tgattaaggt 300

<210> 2320
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2320
gtaatttgta aattctgtgg tacttttcaa atgtatatca tttactgagt ctgattatca 60
cacggcctgg catataataa gtactctata agtattggct gatttctaat aggtctgaaa 120
atttatcctt tagaattttt tcttcagttg gtttagcgag tttccctttg atgttgaaaa 180
tgtttttttt taaaaatcta acctagacca tcccaaatca tgaattactg ttgtgtgaaa 240
cagtgagact actgttttta tgccacaggt ttataattat gcaaataaat actacatctt 300

<210> 2321
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2321
gtgatctgcc cgtctcagcc tcccagagga gcacgtggat tacaggcatg agccaccatg 60
cccggccctg gatgtatttt ctatcctaga atgtccacct ttaaaaatga agcccagtga 120
aaagtgttcc cccactaaaa tgtggactgt tttgcttgca gggatgtgtg ggtttctggt 180
agatagaagg ctagagctag caccttccca aattgcagag gaatcaatcc tggcttgtct 240
gtgagctggg gaggaatgga aaggtagggg ccttgagagt ccttaattac atagggaatg 300

<210> 2322
<211> 299
<212> DNA
<213> Homo sapiens

<400> 2322
agtaaataat ataatattag gatatgttag gtactgtgat gaaaagtgaa gctgataagg 60
gtatagtggt gacttagggt gctgatttag agtttggtca gagaaagtct ttctgaggag 120
ctgtgcgagg tttgctacta tctagaggca cagacgagat tcagcccaat gaagatgaca 180
aacgctcctg taacacatta cccacatttt ctgtaggaca ctgttttgtc gacctataca 240
tatatggcta agtagtctga cactatggat tcagtgaagc atacggtatg tgcccatgg 299

<210> 2323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2323
caagagcaag ggtggagggg gacagattgt caggtcccga aatgtgtgtt gacacacatg 60
ggcttcgggt tagctggcct gacatggaga tagagtgcca atgttcccag gccacagaat 120
tatggaggcc tcacccacag tattcacagc tctcaactgg cctttgagaa tggaagcctt 180
ttcctgccct ggatatggcg cttcttcctg ggagaggagc agagccacag agaggtagga 240
agttgaggca gagcaaaggg aaggcttcag agcttaggcc cggttcatct cagatgtgtt 300

<210> 2324
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2324
tctcaccgtg atcaagttga ggggcttccg gctcccttct acagcctcag aaaccagact 60
cgttcttctg ggaaccctgc ccactcccag gaccaagatt ggcctgaggc tgcactaaaa 120
ttcacttagg gtcgagcatc ctgtttgctg ataaatatta aggagaattc atgactcttg 180
acagcttttc tctcttcact ccccaagtca aggggagggg tggcaggggt ctgtttcctg 240
gaagtcaggc tcatctggcc tgttggcatg ggggtgggac agtgtgcaca gtgtggcggc 300

<210> 2325

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2325
aatagcatga gcgtcaaaaa caggctgatt caaatcctgt tatccagatg caagtggtta 60
tgtactctaa gcctcagttt catcatctga atatagatat ggtacttatc ttacaaggtt 120
gtgataacta aacataataa tgtatataag gcatagcata gcatttggca catactaggt 180
gcccagtgtg tagtaattgc tgtgactaca tggtatacca ccttcctctc cctgagaaat 240
ctcaggatat tggacacact gaactactcc attctaaacc ttaaaaataa aaacaaaagg 300

<210> 2326
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2326
attccatcca cttcctcccc ccattcagca caaggtacgg ttttgacagg tagcgtgatg 60
agatttagaa cagaggctga agttaattga ggttagcaag aaaaatatta ctgtcaattt 120
cagatttttt ctttaattat tttaaactca tgaataatca gttaaatgaa aaagaaatgc 180
acatttaaga gcatcttgaa aattcccact cctaggtgcg tcagaggaga gaagcctctt 240
gtgacactat ctacaataga acacaccact ggctttttgc agatgacata gtttttgttt 300

<210> 2327
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2327
gtgaccacca ctccattctt gtctcctgtg ttctcggttc agaccaccca caaaggcagc 60
ttcaaagcca aatcctcagg aaggggggatc tgcccgggct agctagtcac gtgtcaggca 120
cagtcagctc tgttgagggg tgtgcagtga gggctcagtg aggccacaga gctcagatgt 180
ggctatgaag actcctggtt ggtgggggat ggcagttctc acagatgaga ggtatggatg 240
ggctgggtgc aatgactcac gcctatgatc ccagcccttt gggaggccaa ggtgggcaga 300

<210> 2328
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2328
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ttttgagaca tgagaaataa tgtactttga tctggttttg agaaattatt gcatatttta 120
ttttaagtgc ttgctgcctc tgcctttccc cttttgctcc tcaaatatat aaagtaagta 180
gcctgaccta caggaggact gttaaaaatc atatcactag attaaataga attaaaaaag 240
aaacaggaag attgaagatg tagtttaata tatgtatcat taataataga ataaatacaa 300

<210> 2329
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2329
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agggaaagta agttttaatc tagaccatat tatttagtta catctaatct ctctagacaa 120
aagacagtct ggagagtact ctttagttct atttattaat tttgtctcta gattgagcca 180

gatttcccca tgcatagctg gcattttatt ggcctctgca gaattgcttt ttctggattg 240
gactttggta atccatatga aaatctctat gaaatttaat tgctcgccag gtgtggtggc 300

<210> 2330
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2330
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actatgtctt tgaaatctgt tgtgtatttt atactcaaag catactttaa tttggaccag 120
ccgcatttca ctagtttcat gtggctggtg gctaccacat ggctcagtgc aggtgtaaga 180
cacagataag tagtctgtat tgcatttaga ttactgcagt gtcctcgggt gctttcatcg 240
ttcacatcag tggaaagcct tgttcaaacc aatgtggaat tggtgtttca gacaatggta 300

<210> 2331
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2331
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gttgatttct tggtcgttcc tttgttttct tctataatca catgtggact cagaatgaat 120
tttgagttac tctgaaatct atttattcaa cagatattta cttagtacct cctattgcca 180
gactctgctt tatgttggat attatttttt aaaagcccac cttgcctaga tttcctcaaa 240
ggaccaggtg gcttccctgg ttttgaaaga ccctaattct tactatgatc ttaagtaaat 300

<210> 2332
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2332
gagcaaatga gactgttctg gtgaaatgat gaatggcagt tacaggcaat ggtgggagaa 60
agtaggtttc ctcctagtcc tacatggtag catgattttc cttggcagta acatattaac 120
ttgattacgt gtcaccggct ctgtaatttg ttaactcatt tgattagaac atgttgctaa 180
ttcagtcaag gtttccagtt gtacacattc atttttgctt ctggatcttt gcatatgcta 240
ttctctcctt ctagaacact tgtccatttg tccaccggct cttcacatga ccaaatccta 300

<210> 2333
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2333
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tgcctaatgt tactcagtct tagtttcctc atcagaaaag tggtaaggat gataaagtag 120
ttcataaaca ttcattgagc actaagtatt tgcaagatac tggaggtata aagatgaata 180
aaacactgtt catgtctttg aagacttcct agtcaagtgg tgaaattaaa cataaaaaca 240
ggacatttta atattacgtg caaagcacat agtgggcaat gtgttggttt gaagaaggat 300

<210> 2334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2334
cctagacacc tcgtattggg gaaagtctta agtggttgga gcccatgaca tttgggtatg 60
atgactagat tttttgtaca gctgagcctc aataaactca tgcgtacact tgtgagaact 120
caaatcagaa atgggcacag aaactggatt acatttctgt gctctgaaat cccacagagt 180
tcataaaaat acacatgtat acacaaaagc aacaaatgta agttacattt tattatggaa 240
attgatatta gtgaaattga cagctttcta tggttaaaga ttatcctgta ggtgagccaa 300

<210> 2335
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2335
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atttgggttc tgttaaggtt aaaagaaaat ttgaggtagc cagcagtatc tgcctcagat 120
gctgagaagc ctcctgagat aagagcgtat accatgtcca taactgaagt tttaacattc 180
tctgccaaac agaaccagaa tttaagggca ggagaatttg caagatagaa tttgcaattt 240
gcaagaggga attgcaattt gcaagagagg ggcaatttgc aatttgcaag agagggcaat 300

<210> 2336
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2336
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cagtgctgct cgtcttgatt tttgttctca gaaagagaat aaaattgaca gttgagcttt 120
tccaaatcac aaataaagcc atcagcagtg ctcccttcct gctgttccag ccactgtgga 180
catttgccat cctcattttc ttctgggtcc tctgggtggc tgtgctgctg agcctgggaa 240
ctgcaggagc tgcccaggtt atggaaggcg gcaagtggaa tataagcccc tttcgggcat 300

<210> 2337
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2337
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tttcaagagc tgcacaaaag ccacttaacc tggcaacaaa aagttaatgt gttggttccc 120
tttggtgtat tatattcagt ctattaaagt tttgattgtg atgttttcat tgcagttttt 180
ataccggata aaatgtattt tagaagtaga acttttggag ctgaaatagt ctgcagaatg 240
tagcttgaaa accacggcag tgaactacta agggaaagtt tcagaattca agtctagact 300

<210> 2338
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2338
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gtaagtgatt aaatactgtt tcatcacata tacacatata tatacttatg tggtatatag 120
gtcctgttct cattgtactt atgatattta gtgttgttat tgccatatcc tgtgggggga 180
aagctaagaa cctcagtaat cttagtaaat agtgctatca tcagttcatt tactcaagcc 240
agaaacacaa gagtcaccct cagtttctcc gtcatcccac atttaatcta tcgccatttc 300

<210> 2339

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2339
caaataccta atgcatgtgg ggcttaaaac ctagatgacg ggtagataag tgcagcaaac 60
caccatggca catgtatacc agaaacttca cattctgttc atgtatccca gaatttaaag 120
taaaatttaa aaaaagaaac gtactggaaa atctgaatag accctctgct ggaagcatta 180
tgaaaagtaa ataaatggat atactgcatc atcctcagaa aaaataaaaa agaaagaaaa 240
tgcctgcccc cttctgccca caaaacagat taagcagggg ctcattgttg gtgtcagaag 300

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<212> DNA
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atttattcag tgcaagtttt ttggtgctgt agtatatgat gaaagatgta aagctgaata 240
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<210> 2341
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2341
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gctgggatta caggcatgag ccactgtgcc ctgcctgtaa tttttattta atttttccgg 120
tgatggcatg agtgaatgtc cacatttaaa gttattttgg ttcacacatg gcctttgttt 180
attatttatg agaaaaaatt atagaaataa tttaagggtg gtacagaaat gcaaatctag 240
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<210> 2342
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<212> DNA
<213> Homo sapiens

<400> 2342
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tggtttgttt ctcttgtatt tctgaagttg caaataatca tgtaagcagt tcaaccagga 120
gtttacacca aacttttaat aggcgatata tcattatttt ttttcccatt ggtttggata 180
acatccactt taactggcag ttagtcatac ttagctattt ttgttaaagc aggtgattta 240
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<210> 2343
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2343
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ccatattcac accactgcgt tccagcctgg gtgacagagc aaggtgctat ctccaaaata 120
aataaataaa tgttaaattt gctttttttct ctctctcttt ttttatgtag aatttgtttg 180

ttgatactta ctgaatgtag tgaccctgct gtggtaatga acacttctag tgccttctag 240
gcttaaaata ccagacagcc ccaaataaca aatgctcttt tgtgttttga taggttggat 300

<210> 2344
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2344
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gtcctctgtg gtagggatgg ggatggaccc gggagaggcc ctcctgttcc tggcaggagg 240
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<210> 2345
<211> 300
<212> DNA
<213> Homo sapiens

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gtgccagaga atttacgtca ttgtgcctgg gagctcacac tcagcatggt ttttgctttg 180
actccacgtc ccggtttgtt gttgttttta gggaggggct ttctctgtat gttgcccagg 240
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<210> 2346
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2346
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actaggcact tattttatgc catggcacaa ttctaggtgc tgaagacgac acagctgcga 180
ataaaacaga catgggacct gttcttgtgg agcttatact ttagtgcgta gagaaactaa 240
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<210> 2347
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 2348
<211> 300
<212> DNA
<213> Homo sapiens

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acatagtgca tctcaaataa ctggtaggaa attgtttgtg tctttaaaca tatttttagt 180
gtctttaaac atatttttgt ttgtgtcttt aaacatattt ttaggaacgt atggcatgat 240
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<211> 300
<212> DNA
<213> Homo sapiens

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gcctttatat aatcattctg tgtactctgc cttcataata aaactggaaa aattatgagc 180
aagaaataag aggtactagt tctgaggaat agttaagatt atcatactga gtccaattgt 240
agcagaattt tttgttgctt ctttgtatga tacttaaaat agttgaaaat ttgattggat 300

<210> 2350
<211> 300
<212> DNA
<213> Homo sapiens

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gggaatgatg gtggggccca aatgaggagc cacatcgaag tagatgagag aatagaaggt 180
gaagtaaggg ctggcgttgg gtagggggag acgccagcag tgatgctgat gcccaggctg 240
taggtgtata ggtgccatcc acctggtaaa gagagagctg tagcgcagga atgaggttgc 300

<210> 2351
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2351
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gtataataaa aaaataaata aataaataaa aataaaaaaa taaaaacaca ttataaaggg 120
ggcaatccag atggccagta aaccattgta atagccagaa attggaaaca tatattcatt 180
gacaacattt aagattataa tatagtcata taatagtcct gatataacaa tggaaataaa 240
ttacagctac acacaacata atggataagt cttaaaaagc cacatgtaca gaatacatac 300

<210> 2352
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2352
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tggcagggga agatttggta ttcggcgaga tgggccaatg aaatttgaga aagactttga 180
ctttgaaagt gcaaatgcac aattcaacaa ggaagagatt gacagagagt ttcataataa 240
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<210> 2353

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2353
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ttggttttac acaatttttt ttttaggtaa taagatgtat tgtaaggatt atgcttacgt 180
atggtacaga gtatacttca cattgttcct gtctttttg tgggggaggg aatgaccgaa 240
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<210> 2354
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2354
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tatattcttt aggagcttca aaaaagggtt ttggtttagt tcaaagggtg aaagaagatc 180
ttttattatt ttggtaaata acttctaagg aaacaaacca ccctcacatg cactatctca 240
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<210> 2355
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2355
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tagaaaactt tataaaggag taaattggct ttattctctt gatgaaaact cagtattttg 180
gtgtaaactc tatttaaaca atttcgttca taaacacaaa gacaaaccat ggggtcaaaa 240
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<210> 2356
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2356
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gttctgtaag attagaggag agaaaataga gcaagagaaa tgttgcaagg atttttccaa 180
aaggtataaa atgtatccct gaatatattt ttagtaatct caaacttcag gcatgataac 240
taaaaccaaa ttaacataaa ataatacagg acgcaaaaga ccaatagaaa atctgaaaag 300

<210> 2357
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2357
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aagcagtgac caaagcagac acagttcctt ctccagtgag attataatcc agatgggata 120
ggctataaat aaaggaagaa gttaacatat atcaggtggt ggttagtgct gctgagaaaa 180

atgaaggagg ggagagagaa aaggggatgc cacaaggcta gggtagagag ttctgtttca 240
tacagtggta aaggaaggcc tttgtgttga gtgctttgct ctggaacgac tttaggatgg 300

<210> 2358
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2358
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gccacttttc atcttgtgga aatgccatgt tttgattcag tcttctgaat ttgaacatta 180
ttcaggttat ttccaattgc tgggaatatc cttactgcta aaataaattc ttagcattgg 240
aattgctagg tcaaagatta tgcatgcttt ttaagggctt tagaaatgta ttgccagtct 300

<210> 2359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2359
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agaaactctg ggaaagccaa aagcgaaacg aatcaggacg tcaaaaacaa aacaagcaag 120
caaaaacaca gaaaaagaaa gtgcttggtc acctcctccc atagaaattc ggctgatttc 180
ccccttggct agcccagctg acggagtcaa gagcaaacca agaaaaacta cagaagtgac 240
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<210> 2360
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2360
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gcctgcagta atgtatgtga tagcacttta taaattataa agcactatgt tgtataaaac 180
accattatca ctttgtcttc cttcttacct tatttttct tcctttatct gtcttccctt 240
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<210> 2361
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2361
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acatcacatt tggtgaaact ataaaataat tcccatgaaa attggattgc ttaatatcat 180
aactgatatt taataatatt taatattgct ctaaaatttc tggctaaaat gaaaatattc 240
aaccatcagg aaggagaaac aaaactatta ctgtttgtaa acagtttatc atcagtactt 300

<210> 2362
<211> 300
<212> DNA
<213> Homo sapiens

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cctctttaga aactgtcaac ttgtaagggt cttcagtgtt ggtaaatctt tgtcctttaa 180
gggtagatct atttttgag gaatgatttt ttttttaac agctaaagag cattagaaaa 240
taagtctgct aaataaaatg ggtgaagcag ctcaggatga tcttggtggg caggaggagg 300

<210> 2363
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2363
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gcctgaaaaa agcaatagag attacagaat gtatggaagc acaaaacatg aatgttcttc 120
ttttagagga gaatgcatcc gacctctgct gtctcatttc ctctctggtg caactgatga 180
tggaccccca ctgcagaacc agaattggtt tccagagcct catccaaaag gagtgggtca 240
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<210> 2364
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2364
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taggaggcta actttatact tatttaaaag ctcttatttt gtggtcatta aaatggcaat 120
ttatgtgcag cactttattg cagcaggaag caggtgtggg ttggttgtaa agctctttgc 180
taatcttaaa aagtaatggg tgatttaaaa agaaaaaagg aaaaaaatct ttggctgaat 240
atgttcattg cttgtatttt taaaacaaca gaatttccag tatgaaacag gctgaaagag 300

<210> 2365
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2365
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ttcctcacct gtaatatggg aatagcagtg tcttcttcat ggtgtggctg tgaaaatcaa 180
atgacataag aactcaggtc ctgacatatg gtagaaactc agtcggcagt agctatttct 240
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<210> 2366
<211> 300
<212> DNA
<213> Homo sapiens

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tagcaaagac acattatgta aacttaggag gaggagagaa tgcaaatttg catgtgaatt 120
ttattttgat taatcgcttt ttttgctttt cagcaatgtt atttatgaac aacaaaatta 180
tagaaaaagt gagaaaaagt caattatcaa ttatttttctg atgaacaaca acaaagacaa 240
aaaaatggtg ggattgattt attttcccct gacagaattg attgtttctt taggttctat 300

<210> 2367

<211> 300
<212> DNA
<213> Homo sapiens

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<211> 300
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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gaagtgggag aaatcaagga tagagtttct taaacaagct ttggtgaaga cagggactac 240
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<212> DNA
<213> Homo sapiens

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<211> 300
<212> DNA
<213> Homo sapiens

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<210> 2372
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 2373
<211> 300
<212> DNA
<213> Homo sapiens

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<210> 2374
<211> 300
<212> DNA
<213> Homo sapiens

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<212> DNA
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cagatcctgc ctggcttttt tctgttacac tgtgctgctc cacataaccc tacaaaatga 240
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<210> 2376
<211> 300
<212> DNA
<213> Homo sapiens

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acacccagag attaataatt tgcctaaggt aacaaaatta gtaagcatcg taaccaggat 180
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<213> Homo sapiens

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<210> 2378
<211> 300
<212> DNA
<213> Homo sapiens

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cttcaaaact gctcaaaaca cttcactttg tcttcaaaac tgctcccaga attttcctag 180
catttttggt gattcaacat tcatgtcaaa ccaccacact tgggctcccc agtttcttca 240
tttcctcatt gttgcatgca caaatttttc tctgctctat ctcagccaca tcctactcct 300

<210> 2379
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2379
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aaagtgaatg cccactaggt ggaaacctga aagcacgggg acctgcgatc ttgtttactg 120
ttatattcct gctgcgcagc tcagggtctc tatgtaaaaa atgagtgaat ttatttttcta 180
gctggtgcct acaaaatat ctgcaatgta tccatactgg tttattaatg gtaacagatg 240
aaccgtacta atatgagata tagggggaaa ctagatatgg agtgtatggg aattctatct 300

<210> 2380
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2380
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acattaccat gataagtcag aatactggag gcaaaaagaa gactctgtag tcttccaggg 120

aggggggaaa tgtcacagac aggatcagga gtcatgatga cctcagcagc acttctggaa 180
gccaaacaat gaggcagttt tcttcaaagg tatgaaagaa aataattact gatgcagcct 240
tttctttttt aaccaaacaa tgaatgaagt gtgaagatgg aatcaagata agttcagaaa 300

<210> 2381
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2381
aacctctctg tgtctcttat tccacatctt tcacgtgggg ttgctgttat ggttaattag 60
aaaattctgg acctgattca ttaaccccgc ttttcttctc taatgtgtcc tgaagctgag 120
ctagatgatg agtaaattct ttgctgactg ttgctcatca ctttctctca aagttagaac 180
ttttcagtat aaaaataatt agcttttaac tgattattaa tgttctttaa tagtttctgt 240
caaaacttgt ctaaaatttg tgttgtgcca aattggaaat acccactata atatggcgca 300

<210> 2382
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2382
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tatcttcgta ggagttgccg ctgctcagta ctcccgtctc tgttctcact cacgtgtggt 120
gttctctgtg gacgctgagc ctctgcagaa gctgctgact ttgtcaggtc cgaggctgtg 180
tcctcagcac caaggacagc acagggcgga cactccgcgt atttgagtga gaaaatgaat 240
gctttgcaac aaccatatcg tattgaaccg ttctgtgaac gaggcccctt tgctagggct 300

<210> 2383
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2383
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tatcttcgta ggagttgccg ctgctcacta ctcccgtctc tgttctcact cacgtgtggt 120
gttctctgtg gacgctgagc ctctgcagaa gctgctgact ttgtcaggtc cgaggctgtg 180
tcctcagcac caaggacagc acagggcgga cactccgcgt atttgagtga gaaaatgaat 240
gctttgcaac aaccatatcg tattgaaccg ttctgtgaac gaggcccctt tgctagggct 300

<210> 2384
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2384
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accaactcaa ctttgccaaa gctaatagtt ctcaagtctc ttttttaaa ttctccaata 120
gaatttgatg taagtattcc ctcctccttg aaatactttc ttcacttggt ttctaggaca 180
caatagagaa cctctttgtt gatcttcctc gttttcctaa ccctaaatgt ttgagtgccc 240
cgaggcaata ctatcttgtc tctatctctg ctgccatggt gatctcattc aagagtcatg 300

<210> 2385
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2385
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acagttccag atacagcatt atctatttag atttaatttc gcttatacat gttttcttgc 120
tctctgctgt tgtttacact ctttattttt ctgttactga gatcttcatt cttactataa 180
tttttgtttg ttaggagctc ttccatgagt aattttcgtt ggacagtctt aatgggtagt 240
atagtttctg agctattaga cgcccaaaat atttttttcat ttgcctttac atatgaatgc 300

<210> 2386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2386
aagcatggct ctgccctctt gaaagactaa agaaatattc catcagcagt ttactttaga 60
agaactgaaa gaataggttg atactgaacc cactcccaga gccaggtagc tgaaagggca 120
ctgtgattgt tatcttacta ggaacacgtg gagtgggagt aaggcagttt tctgcagaaa 180
agagggattc tgggcagaca aaaactacat atgcactatg ttttgttttg ttttttttgtt 240
tgtttgtttt aaattaaaac cagaaaaggc gaagacttgg agaatgctca aaatttttttt 300

<210> 2387
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2387
ggaaccaggg gctgcagaac cagcccctcc ccaatgagga ccccctctgg acgcccctcc 60
ccatggagaa caccaggagc cacagacccc agaccacaga gcacacaggg gagggcacgg 120
ggcggccggg gcagggtgtc tgctgcctcg tttatgggat ttgctccgcg tctagcacac 180
tgctgcctgc agtgctcctg tcccctgcag tggctactct gggcctacgg gcctaatcct 240
ggttggcatg aaaatgtcct gaggctactg tgacaaattt ccacaagctg agtggcttaa 300

<210> 2388
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2388
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ctaacctgtt aagagattgt cttcaaaata aaactgttat taactacatt aatgttagac 120
aaagtacact ttagggcaaa aggcattatt agggatagat ttcataatga tagagttcta 180
tagtagaata tagtaatgca actgaacaaa atgaagctca ttccactgca tggaagaatc 240
tcacagatgt gatgctgaac aaaggaagcc acgtacaaac acttactata taattttatg 300

<210> 2389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2389
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gtacagtatt tgagatatta gagcagtttc tcctcctttt gcaactaagg acatgtatcc 120
ttaaagcaga aggaatggca gagtcgtgta ataaaccctc aagtaccatt acttagcttc 180
aacaactatc gacactctac tgttcttgtt tcatttatgc ctcacctcct tcccatcccc 240
cacttgaata ttctcatcct ttttttacag tttttaagat aacaattaca taactgaaat 300

<210> 2390

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2390
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taacttttc ttaggttatt tctaagagag tttcaaaatg aaaaaaaata ctatgtgttt 120
gtaattttat gattataatt ccatttaagt aaaataacaa aaataacact cgtatcatag 180
acattagaga gttcttactt ggaaagtttc atttcctaat gacatcactg aaacagcagg 240
tatgacagag ggttccctga ctttgatagt tttaattatc ttaatttatc ctctgtcctc 300

<210> 2391
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2391
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cgagcgggac cgagaagtgg gctgggagca gaggtcgcgg aggtggcgag cgaggccggg 120
gcccaggcgg ggaccgggag gggcccggga gtggcgggca cgccagggtc agggagccgg 180
gcgagggagg gggcccgggg ttggggaagg gggcccgggg agggaggtaa acagccctgc 240
aggcctcggg gcaccgttgc tgggcggcgc cggcggcatg tgctagggcc cgtcccgcat 300

<210> 2392
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2392
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cctggttaaa acagagtccc aggtacatat taaagcaagc cttcatacat gttggccctc 120
tatctaaaag cctcttccca ctcctttccc tttacctggt aatccctgtt attccctaga 180
tgcctgcttt aaagagattt cctttggtaa atcaccctga accctcagac tagtccagac 240
ctctctttga tattttcctc ttgacattca gcatttatcc caattgaaag taataattac 300

<210> 2393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2393
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cattgtgttg gccattcagg agactgactg tgaaagaatc caaactttat atttctgcct 120
tgccagtttt tttttccttt tcttcactcc atttgagaca ctcttgacct aatccagtaa 180
actctaatta atagtcttgg taaattctgt ttcaagccat cctgagtagc gtcactgaca 240
cccgatctgt ttcagtaagg tcaaattagc atcctttact atttttctgg catttaaatg 300

<210> 2394
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2394
ctcagatgcc agtcacaagt cccaggcctc tcatacttct gaccgactgg ctacaaatca 60
ggggttccca ctacctcctc agattagata atttgctgga taaaactcag gaaaacatta 120
ttattaaggg cacaactcag caacagccca gtagaagagg tgcacggagc aagcacgggg 180

ggacgtggag tttctgtgcc ctcctagggt ggcctcctgc ccagctcacc cttgtgtgtg 240
caaggtcccc gaatcttgta gttagagttt ctgtagaact caatctctaa tcctttcctt 300

<210> 2395
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2395
gtggaataat atcttttgaa ataactaagt ccactaaatt atacagtatg ctattctggt 60
tctaagtaca tattagtccc ttggcaaatc tgttctttca aagcatacct tccccaaatg 120
agcctaccta cttcttaaaa aacatataac acaatgtggt agtagtaggt gtaaggaagg 180
taagtttttt catagtggta tgcaaacata tcattgaaat attacataga tataaagact 240
tagggaataa aaatagcagc aacaaatact tgatagattt atcctacttg ggagaaatat 300

<210> 2396
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2396
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tcctttgtta agcagtatta ttttgaggaa acagattgag agcgattatg taacatggcc 120
aaggtctgac acttagtaag tgataaactt gggtcttaaa tactagtctt ttggacttgg 180
gcatttaagg acgactagcc tgtattacct ttcctttgag atccttcctc acataggagg 240
tgaatttaat aatctggatt tcttgaaata anntanactc caccaaaaca antcctgcct 300

<210> 2397
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2397
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ctaggccttt tcagttcttt cctatcattg ttaatgtaga caaccatttc ccagattttt 120
gagataaatc aatttattta tttgcaatat ttacatgcct acatggtttt ttaaagttat 180
tttaatgtat ttttaatgat taaaaaatta tgtcccgtat ttattagtca ttcattactt 240
accattattt gcatttaatc cttaaagcag aagtgtacaa aaaagagatt aatgtaaagc 300

<210> 2398
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

<400> 2398
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tacagtgttt ttcattaatg acttccaaat gtctcacatg tattgtctct tcccagtagc 120
ataaacaaag atgcagggag gtgcaatgag ttcctacagg ccctagagct gacggtaggg 180
gtgggaatac agttcacacc gcgtcttcag ctgngttcct tgtggatgac nnccactgtc 240
agncanntga tnaaancagt tntcaatnct aaantgctgg anantnactg ct 292

<210> 2399
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2399
attttaagtg tgcagctcag cccgtattta gtgtattcac aatgttctgc aaccaccagc 60
ctcctgagta gctgggtgtg caccctgcac ccagccagaa gtggaatatc ttgttggggc 120
tgggcttaga gctggagctg gtggccggct ctgctcgctt acagaattct gtacggtttc 180
tgatttctct cagcccatct gtccttcact tgcaagcatc tgatgactgc tgcatgtacc 240
ataaaaacat gcaaatatat aattcttggc tttgaggagg tgaccctatg aaattgactt 300

<210> 2400
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2400
ctcagggtat tgaaatctga gaccttaggc ttctatttca ctgaattctt ataataccac 60
tgcaagttga ggtatacatt tcctgatttt atggataaat aaactactgt tacaataata 120
ctgtggaaca agcaaccaca aaatctcaga gtcacaaaca tttatatttc acttgggcac 180
ctgtaggttg gctgtgattt agctcatcta agctggactc agctgggctg ggttccaggc 240
tctgcagtag gtccagtgta tacagcaccc ttgatgtaag taactccatc ttagaaaaat 300

<210> 2401
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2401
gatggacagt ggcactcggt ggcagtcacc ataaaacaga gactgctttg gtgtgaccga 60
cgttgaggtc ccacctgccc cactgtccat agaggccgtg acctttcctg cctccaggta 120
aacacataag tgcttcccgg gctgacttcc gatgtgtatt aggatcccag tgagacttct 180
tgggcggatg ctgaaaacaa gcttaaattc tggccccaac aatacagagt gagccaagac 240
gacatgacct ccttcttcag agaaataaat gcctttctcc aaagcctcta gaactatagt 300

<210> 2402
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2402
ggtgggcaaa ggacagtccg ccgaggtgct cggtggagtc atggcagtaa gctcataaag 60
aagcaagata atggaataca caaatattac tacgacttta tgggtggcat accttgattc 120
ttgatccacg tggctgtgtt cagatctggt tagcacacat tgacatcagg ggctgagcca 180
ccagtgagag tcaaacccag cagccctgtc agtctacctt ctctcttgac ttgatccagc 240
ctcataactt cactttccgc aggagaaaca cacctcttga ggtcctctgt cacaaatagg 300

<210> 2403
<211> 189
<212> DNA

<213> Homo sapiens

<400> 2403
cagaactcat atagtgtttg aaggaatgca aagttgcaaa gtggtacagt gtttttgtaa 60
cgtaacagtt tttaacatat ttaaacatac acttacgatg tgacctagcc attccccttt 120
gagatatttg ctcaaaagaa attaaagcgg ccaggatggt ggctcacacc tgtagtccca 180
gcattttgg 189

<210> 2404
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2404
gggccatgta cctcccggac accctctctc cagccgacca gctcaagtcc acactgcaga 60
ccctcccaga gattgtggca aaggaagcac aggtgaaagt ggccgaggtg gagggcgagc 120
aggtggacaa caaggccaag ctggaggcca cgctgcagga ggaggcggcc atccagcagg 180
agcaccgtga gaaggagctg cagaagcgct cggaggtggc gaaggatttt gagcccgaac 240
gtgtggtagc tgctccccaa aggccgggga ccgagccaca gccagaaatg cctgacacag 300

<210> 2405
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2405
gagaatctta tatttttaaa attgtcccta tgttaaatcc agatggtgtc atcaatggaa 60
atcatcgctg ttctttaagt ggagaggatt tgaataggca gtggcaaagt ccaagtccgg 120
atttacatcc tacaatttac catgctaagg ggctgttgca atacttggct gcagtgaagc 180
gtttaccctt ggtttattgt gattatcatg gccattcccg aaagaagaat gtatttatgt 240
atggttgcag catcaaagag acagtgtggc ataccaatga taatgcaact tcatgtgatg 300

<210> 2406
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2406
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gatttcttcc tttttatttc attcttttaa aaaatttatt ttaaggtagt acatgtagtt 120
ggaagaacta ctataaaaac aatatatgtg ggaaaacttc cagccctctg ttaattgtgt 180
gtctcaaatt tgttctggaa aagaaagggg gaaagtctat gaacgacttt tcaacctggc 240
aattccatat acaatgttaa acttgattct tatgacatat tcctatgaaa ataataaata 300

<210> 2407
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2407
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aggagctatt cgggtggcac ctcgctggcc aggctctccc gagtcgtggc acctccacaa 120
tgtgaatttt ctgaatccct attccaggat ttctgggaat aatgtttact tctagaatgg 180
gcctgttgta aanccatctc atcgaggtgt ggtaaagcca ttggatgagg aggggactgc 240
catggaaagg agagtttgtt acttacggtt ctgagaggag gggccacata ggaaagcccc 300

<210> 2408
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2408
ggtaaccaag cacttcgtag tggccaccaa tcaggaggaa gtccctgatt gacctagctc 60
aggtcacatg gccattctca gtccagtcaa tgtggccagg cataagtgag gggggagaat 120
agggtctgga agcagggaac ctaaggctga ttcacgctga tttcctagaa tggaattaaa 180
aggaaaaccc caactttcca tgcccaagta acaaaaggat cataagctac ttcctttgca 240
cccccaccca ctttttcttc gtggcagatg gaaaatggaa agtactctga ttggtcccct 300

<210> 2409
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2409
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atgcagagga agaggaaagc gaactgggtt acattccgaa aagcaaatgg gagatggaca 120
catctgaggc aaagctagac aagttggatg gcttgaggac tggtactaaa aggaaacgtg 180
actgggaggc cattgccagc agaatggagg attatcttca gctccccgat gattatgata 240
ctcgtgcttc tgagcctggg aagaagaggg tcagatgggc agacctggaa gagaagaagg 300

<210> 2410
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2410
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cggccaggtt atcaggggct tcactgtgaa acctgcaaag agggctttta cctaaattac 120
acttctgggc tctgtcagcc atgtgactgt agtccacatg gagctctcag cataccgtgc 180
aacagttctg ggaaatgcca gtgcaaagtg ggtgtcattg gctctatatg tgaccgatgc 240
caagatggat attatggctt tagtaagaat ggctgcttgc cctgccaatg caataatcgg 300

<210> 2411
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2411
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agtctgatgt tacctctggg attttttggt agatgctctt tatgtgtttg aggtaaatct 120
tgtctagttc tagttttttt gagtgttttt accttgaata ggtgttggat actttgtaga 180
tattaaaaat actatgaagg gagactggat tattcttttt tagctggaaa tagagtagta 240
tgtgaattag aatgataaag tctgactgtt gtctcaggca tacaatactt aaggcaccaa 300

<210> 2412
<211> 300
<212> DNA

<213> Homo sapiens

<400> 2412
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tattaacagc tttgatcttg cctctgtcta ttgctttctg actgtgttca gtccttttat 120
gatgggagcc ctgatgatgt ggaagatttt aatccccttt gttcttgtta tgtgtgcttt 180
tgaagcagtt cagttgacta ctcagttatc gtcaaaaagc ctttttctca ttgttctcgt 240
catatcagac attatggctt tgcatttttt cttcttggtc aaggattatg gcagctggct 300

<210> 2413
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(289)
<223> n = A,T,C or G

<400> 2413
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tagatttgtc ataaattact ttccttttatt gtcttttctg tcaatcttag gacattaaat 180
gtatatgttt gaaattgtgt ttaggtaggt tatctgagca ttnggttcag atanntanag 240
agagcgntat angttcactg tnntccccac nggcttngcg actgatatg 289

<210> 2414
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2414
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gatcaaacag cattgcatgc ttcagagaaa tctttcttca caaaaggaac aattggtgca 120
gcaaaattaa ttttcttatt ttaagaaatt gtcagccggg tgtgagccac catgcccggc 180
cgacataggc tatttttttaa aatgcaagct cttctgaacc atataatatg atgttttaaa 240
atatagactc tgaagacaaa gacctgggct cagaatcagg ccccaccact tattttcaat 300

<210> 2415
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2415
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ttttacatgt agcctatcat gagggtagag agaaaaggca cagaaagaaa ctctatgtca 120
gcccaggtac aatggatggg ggcctatggt acgcttatct tatcagcctc attgttaaaa 180
ctggttttga aattggcttc cttgttttat tttataagct atatgatggc tttagtgttc 240
cctaccttat aaagtgtgat ttgaagcctt gtcccaacac tgtggactgc ttcatctcca 300

<210> 2416
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2416

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ccaaactctt cctaagtcct gtccaaacaa aaccatgaag gataagaaat ggttattatt 120
attttaagct accacctttt ggtgtgatta ttatatgcaa taataggtag cagacactgg 180
ctttggttgg acatgtatgt tctctgcata ttctgctttt gtgcatgtgg agaaatgggc 240
tttctgggct gctgacaatg aggaggtaga gatgttgttc aggcagatgc gtttagactt 300

<210> 2417
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2417
agaaactact tctatgattt cagctggagt ctgaagatac ttgtttctgt tcaagtccca 60
ctttaaatta tgtcttagga gactgaaagc ggaatcttct gagcattcct agatatctgc 120
ttagaaatat catgcgataa agagggacct tcttaataca ctgatgttct tcactaaatg 180
gatggccaca agaaaaataa agtagcatgc ctataaataa ttgaaccata aattttcatg 240
tcatgtgata ctggaatatg ggatactttt catgtttata tatatatata tatatgtcta 300

<210> 2418
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2418
tctagctcag ggtctctcat gaggtttcag ttatgatgtt ggcttgtact gtgtcgtctg 60
aaggcctggc tgggctgaag catctgcttc caagctcact catgtggcca tttcccagag 120
gcccagtacc ttactggctt tttgccaggg aggccttaat ttcttacata tgggcctctc 180
catagggcag catgcaactt ggcagctggt ctcccttaca gtgaatgatc caagagagta 240
tgagagagtg tgccacaatg gaagccaggt atctgttata acctcatctt agaaatgata 300

<210> 2419
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2419
tggaaaagaa aataaaattg gcagctcact cttctgtcat ttgatcttct gtcatttgct 60
tttctgagtt ttggccctcc tgtacaatct atctggtcgg gtttactttt ctccatcttc 120
aagcagggtg tgtcttcaag catgcatgtc tgtgttttga ttcggaattg atagttataa 180
tagaagcatg agctgctggg aaattatacc tcctgatttg tgtggtttta tttgttcatc 240
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<210> 2420
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 2420
actggctgct ctaatttaca ttcctaccaa cagtgcataa gagttccttt ttctccagct 60
actcaggagg ctgagggagg agaactattt gaaccctaga agcagaggga gccagattac 120
accaccactg cactccagcc tggacggaga gtgagattct gtcaaaaaaa aaaaaggccc 180

ntttttttnn ngtttngnn annttngta atttnggnct ttttnnnaan ncccnncnna 240
nnggatnnaa aagnnnccct nannggggnt tnantaannn ttcctt 286

<210> 2421
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2421
gtcaagcatt ccacttttcc tatctgcaaa acagggctta aaatagtata tcaaacaata 60
actagttaga agatacaatg gaagaaaaag tgccactttc aggagcaaca aagatgagat 120
accagaaata aacttaacaa caaactctaa aacctacatg ataaaaaatg taaaacatca 180
ttgaagaaca taaaagaagt ttggaacaat tgaagaatat gtcttcttca taactggaaa 240
tacacagcac cataaagatg ttagtttaag gtaatttata aatttaatgt gatgataaga 300

<210> 2422
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2422
gccaaatcct tcagtggatg tgaaaggaat aggagatgaa ttatataatc cagaaacaca 60
taaacgacat actttgtttt gtgggacaac tgttattcag actcgtttct acactggaga 120
actcgtcaaa gccatagttg ttagaacagg atttagtact tccaaaggac agcttgttcg 180
ttccatattg tatcccaaac caactgattt taaactctac agagatgcct acttgtttct 240
actatgtctt gtggcagttg ctggcattgg gtttatctac actattatta atagcatttt 300

<210> 2423
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2423
ctttagcccc agtcaagtta cctcagcaaa gactagctga ccctgccaag ccctgcccaa 60
gttacagaat catgagcaaa taaatggctg tttctgtttt aagcttttaa attttggggg 120
tggtttatgt gtcaataata actgaaacag ataatatata cagaataaac tttagtttta 180
ataatctaag taaaagccca ctaattcatt atgcagaaaa aaatgatttt tttgagacgg 240
ggtctcgctc tgttgccagg ctggagtgct gtggcacaac catagctcac tgcagcctcc 300

<210> 2424
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2424
cagcgcccag ctccgaggtt ggagcagccc cgccgggcaa cttgaatttc tgcaaacgaa 60
cacagcaccg ggagctctgc agacctgtgt cggcgcggaa cccggactga gacatgcctt 120
ttgaacttct cagatagagg aaccccagtg aagactgatc agttcttaca attctcaaag 180
catggcccat aaatatgtgg gtttgcagta tcacggatca gtgacatttg aggatgtggc 240
catagccttc tcccagcagg agtgggagag tctggactct tcccagaggg gcttgtacag 300

<210> 2425
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2425
ttcaatagca tgttaagtag atattatctg acagacctac aagtctcact tatccgtgac 60
atcagacgaa gagggaaaaa taaagttgct gcgcagaact gtcgtaaacg caaattggac 120
ataattttga atttagaaga tgatgtatgt aacttgcaag caaagaagga aactcttaag 180
agagagcaag cacaatgtat caaagctatt aacataatga aacagaaact gcatgacctt 240
tatcatgata tttttagtag attaagagat gaccaaggta ggccagtcaa tcccaaccac 300

<210> 2426
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2426
ctttgtccca atatttgtga caccagtgta atgacttggt taagttgggt tgaccaggtt 60
cctccactgt caggttatac tttttcattc tgtaattaat gtatcgctat atattttata 120
tactttgaaa ctgtaaacat cttgtcctca tcaaaccttc acctactaat tttagcagtc 180
attgctaatt ttttaaactc ccattctttc tacatttagt agttggcatt ctactataag 240
gaagaatttt ccctttttcc ttatttgtgt atacttattt attaatattt attatttatt 300

<210> 2427
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2427
cctgtgtcca ggccactttc caacacagct cggcagctcc tcccataaga gggagagtcc 60
ctctggtcac cccttgaatc ttggctggtc ttgggacttg ctctgacaaa taggatatgg 120
cagatgtgac attacggtca tcctgaacct aggcctcaag gagccttgct gtttctgctc 180
actctccagg aaccctgcct acgccatgag gacaggccca ggctagcctt cggatgatga 240
gagacctgtg gccctgctaa gcagcagacg tgagagatgc catcttggag ctgctagctg 300

<210> 2428
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2428
agacacttta gcaactgcct aactatcacc tgatggttgc cttcctctcc tgccctgctc 60
atgtctgctt aactacctac tctaacagca gcagcagcag gaataatagt actctttaat 120
gataaactgc cttggaaggc cttatttgta catgcaatgt tgaatcttca gtttccaagt 180
ggaaaatgtt ggtcataagc atcttccttg ggcttgtttt ctagattata tgtatagtct 240
ttttattttg aagtcatcta ggacccaccg taagttataa gatactacag agaatttcca 300

<210> 2429
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2429
ggagagagaa tgtcttttcg aggcggaggt cgtggaggct ttaatcgagg tggtggaggt 60
ggcggcttca accgaggcgg cagcagcaac cacttccgag gtggaggcgg cggtggaggc 120
ggcggcaatt tcagaggcgg cggcagggga ggatttggac gaggggggtgg ccgcggaggc 180
tttaacaaag gccaagacca aggacctcca gaacgtgtag tcttattagg agagttcctg 240
catccctgtg aagatgacat agtttgtaaa tgtaccacag atgaaaataa ggtgccttat 300

<210> 2430

<211> 300
<212> DNA
<213> Homo sapiens

<400> 2430
gaaagcttca tgttccgcac ctgggggcg gatgttatca acatgaccac agttccagaa 60
ctgtcagaag ataaatttct gttgttctca gccatccagt ttgtggtact ttgtaacggc 120
agccctagga agctgatgca ggtgggattg attcccctgc tccagagaaa ggactgtttt 180
cacagaagag gcgatgcttg aactgaatct gaagggatca atgtggcttc ccttggcaag 240
gcatggagtg aaggtggagt atatcccaag tggggaggac agcacgtgac atggcgcagg 300

<210> 2431
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2431
taattatagt ccctggagtt atgcagctaa ttaaaggtca aacgcagaac tttaaagacg 60
ccttttcagg aagagattca agtattacgc ggttgccact ggctttttat tatggaatgt 120
atgcatatgc tggctggttt tacctcaact ttgttactga agaagtagaa aaccctgaaa 180
aaaccattcc ccttgcaata tgtatatcca tggccattgt caccattggc tatgtgctga 240
caaatgtggc ctactttacg accattaatg ctgaggagct gctgctttca aatgcagtgg 300

<210> 2432
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2432
ctgaagtgag gttgaggtgg gtgcacggag cccccatgcc ctcagtgggt acaccagcct 60
cccagcactt cctcatgttc accaacacgg aagcttatca gagcttgttg tttcagaact 120
caattgccag ctcactgctg aagagattgg tgggtagggc tgaaagaaat atcagtgggt 180
ctttgtggta ttcagcccca tcctgagatg gcctatccag gggctctata agaagtcacc 240
tcattagcat aaactcacat gtgaccaaaa ggatcttgtt atgaataaca aaagatgttc 300

<210> 2433
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2433
cagagatctg caaattacag cccacatgcc agctgcttgt ttttgtaaat aatgttttac 60
cggaatccag ccactcccac ttgtttacat atcatccctg gctgctttta tgctacaatg 120
aagtggaggg ttgagtagtt gaaacaaaga ccttattgct tgcaaagtct gaaataaaca 180
cactcacaca cactgattta tgtatagaat atgtatacaa atatatcttt tatttatcta 240
ttttttgag attgagtctc gcttgttgct ctgtcgccca ggttggagtg cggtggcaag 300

<210> 2434
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2434
ctcaggagct gctgcttttc ccatgcctga aaatttttca gttaagttct ggattttgtc 60
acagaacata tgacctgccc ttatgcataa gtttgattga attggaaaat cagcaagagt 120
ggcatgaaag aacctagaaa tctgagtctg gtcaaccatc tcctctattg ttcttactct 180

tgattgtaga accaaaggac aaccagcgtt gtgattcata gggctgctct tgcctctgca 240
agggtggtcc aaacatgatt ttagtggtag gttcatcatg ggtatgccca agcgatcaga 300

<210> 2435
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2435
cccctgtgcc ccttccccag gaaatcaagt cctaaggaat aagagtttgt tggacagagt 60
tgagccttgg agggacacaa aacattgtaa tatctaagat ttttttcata ctctcccaga 120
aagaaccaat tttcaccctg gggtggcggg gtggtaaaat tgcccctgtt cagaatacat 180
gctctaataa gcggcagcca tgggatttta tcctaatact gagtctagat gccaaatctt 240
tttcaccctg tctcaaaaca aacaacaaca acagcaaaaa gatcactttg gctgttttta 300

<210> 2436
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2436
caggtgtgag cccccacgcc ctgcatgaat atgtatttct taatgttatc actcattgaa 60
aagtttcttt taaaattata tatatggccc aatcttgaac tatcttattt tggaaggttt 120
tatctatttt taatttatgt cctcccgcct ttctcatacc cagctccaca agaaaataca 180
gatctgcaga aaatgatttg aatgcctact ttctcactcg tccaaggatg atgctgcata 240
gctagtacca ctctagatgc ttggaagaaa agttaattca atcaacagat agtgcattag 300

<210> 2437
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2437
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aaaaggcagc tgggttgtca ctgatgggca gcatttgagc ctgccacact ggcctggaag 120
gtcnccttcc agncnggatn tnnnangcta ntttnttaca nntaangctg tcacgantga 180
nacctngcta tcactgtcag ctgnatatgg tcatcctatc acgacatgct atatggnccg 240
tcaacagagg gcccntactt tacnagttng gaccnaacac acttcaggnc tgancttggg 300

<210> 2438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2438
gtcgtcggtt ttctgagggt acttcagctg acagagagat tcagagaacg ttaatggagg 60
taatatttgg taaaggggt ttataaagaa accaatgttt attaaatgaa gaactgaaca 120
ttgcatattt gatagtcaaa atatatagaa cattttaaat gaaatatgaa atttgaaaat 180
attgtcagga acaaacatgt ttctctatca caaactctaa gaaaatgact actggaaaat 240
aaggctatct gccaaattcc atttggtata cacctgtact attctgtgtt ttttgagtag 300

<210> 2439
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2439
taacagacta aattttctct gtaagaggtt atttcctaga tagttaatat ttttggtact 60
actttgtgct gtattttata actattaagg aatgttgcag agaaatgcta tcaattgtta 120
aaattttgcc atgaatacag cagcctcact gaattctctt agtagttcta atagcttgcc 180
atttgattct aacaggtttt ctatgtaaaa gatggtgtca tcttcaaaca atgatagttt 240
catttcttct ctttcacctc ttaccttcct tgtgtttctt tagcattggg caggtccttc 300

<210> 2440
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2440
agtgctggga ttacaggagt gagccactta ggctagccct gaaatgcttt tgtttttgtt 60
tgtgtttttt gtttttttaat gaaaatacag gacatggaga tgtggaaaga caccttgctt 120
tattactgtt gttattatta ttattactac agtataattc atgtatcaca aaattcacga 180
tttttaagca tacctttcag tatttttac tatattccaa aagtttgcag ccagcagcac 240
tacctaattc caaaatattt tcataatgcc aaaaagcatg cctgcaccta tgggctgtca 300

<210> 2441
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2441
caaacccctc ctttgtactc gcccttcata atcacttttg cttcacacac ataacctctg 60
acagccactg atgtgctctt tatgactata gttttaactc tggaagaatg tcatgtaaat 120
ggggctctgt gttttgcagc atcatgcagc tgtaaccttt gattcagcag ataacaatgt 180
gcatggcctc tccactcaag gtaatgcctt tcagattcat tcaagtggcc gcatctatcg 240
gtagttcttt ccttttcatt gctgagcagt attccatcac aagggtgtac cacagtttgt 300

<210> 2442
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2442
cctaaagtga agatggcagc ctggaaagac gtttcaaggt cagtgtatta gtggctcatg 60
cctaggggaa ggaataacat ttggagcaaa caggagacaa attgaaaagc ttcaggagga 120
aaggctagga aataagattc tttgggcgag aataaggact ttaaagagat tccacatatt 180
cctgggaatc tgaaagacca tacacatgcc tagggctggg catgtgctta aaaagacttg 240
agagggccct atgctgtcac ctctgcctga ccttcaggct ctgtgcaagc aggaagtgaa 300

<210> 2443
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2443
tcctattgta aaatcacttg ctaaggctca tgagaggcta gaagattcca aactagaagc 60
tgtcagtgac aataacttgg aattagtcaa tgaaattctt gaagacatca ctcctctaat 120

aaatgtggat gaaaatgtgg cagaattggt tggtatactc aaagaacctc acttccagtc 180
actgttggag gcccatgata ttgtggcatc aaagtgttat gattcacctc catcaagccc 240
agaaatgaat aattcttcta tcaataatca gttattacca gtagatgcca ttcgtattct 300

<210> 2444
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2444
cagaggctga ggtgggagga tctcttgagc ccaggaggtt gaggctgcaa tgagttgtga 60
ttgcaccagt gtactctagc ctagacaaca gaggaataac ctgtctctca agataaagaa 120
ataaattaat taataataat aataattcta taagtgtaat gaaagaggaa agggaaatca 180
gtaataagga aggacgtgta tttcaggacc attttaggaa tcaggtggca tattgaaggt 240
tgatgatgga ttgagattta gacgttcact agggaaatat ataggttaaa gcatatgatt 300

<210> 2445
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2445
caccccttt aggatttaca ttagttctgt tccagtaaag gcttaggtag gaagcacagg 60
atgtagagct gagttgaacc tattcccctg atcttactaa tgaggtgcct gatattcaga 120
gagaccaagg gacatcccca aagtcaacca gcaatccatt agagctgagc ctagtacctt 180
gattctcaga catgaatgct acttgttgaa ttgaaaattg cattcataat acatctcttc 240
atagattcct ggccaggaag ccccagagac caaaacagtc tttatcaata tttagaatat 300

<210> 2446
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2446
gtgaagtgga gatatgtgat tgaccttgtt cttttatttg aaatatattt tcctatgtct 60
tcattttcct tcactgtctg tggtgattta tgtacatcag ataagacaac cacctctccc 120
agtctcgtca gactggtctc atacaggaga aagatctcaa caatgtatcc tgccagagat 180
tttaaggtcc ttctccaatc tcaaaaacag actgctatat ctccttttg tggcccactg 240
gagcttagaa tgtgttatgt cctgtcagta ccctcatgaa tagtatggta ggagcaagac 300

<210> 2447
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2447
ggtgtaaaga tatccatgat gataatgagc tgagtatata gttcattctt cagtatagga 60
aattaaaatg tgagtttatc agaatgagta acttaaagag aaattgcata tctcttttcc 120
tgccttttta aatgtaagaa tctctagaaa tatttttgt ttaaagtagt ggtagagctg 180
taaagtgatt gttttttaaa taattatttt tagaagttgt atttttggg ttttttgttt 240
ttgtttttga gacagggtct cgctttgtca cccaggcagg aatgcagtgg tgcaatcatg 300

<210> 2448
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2448
tgaatctgta gatcagtttg ggaaaaatta acatctcaac aatattgagt cttcaagtat 60
atgaatatct ctccactcta cttacatctt tcatttctcc cagcagtgtt ttgtagtttt 120
tcgtgtatag gtctttcaca tctttttttgt catgttatcc ctgaatgttt ctcatgtttc 180
agttctattg taaatggttt ccccggacct tcagctccat ctcttccacc cagggagtcc 240
actgggctct tcttcacctt cctgcccatg acctggagcc tctccccagg cagtaagtgg 300

<210> 2449
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2449
gctatgtgct gacaaatgtg gcctacttta cgaccattaa tgctgaggag ctgctgcttt 60
caaatgcagt ggcagtgacc ttttctgagc ggctactggg aaatttctca ttagcagttc 120
cgatctttgt tgccctctcc tgctttggct ccatgaacgg tggtgtgttt gctgtctcca 180
ggttattcta tgttgcgtct cgagagggtc accttccaga aatcctctcc atgattcatg 240
tccgcaagca cactcctcta ccagctgtta ttgttttgca ccctttgaca atgataatgc 300

<210> 2450
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2450
ccatgcccag ctgtaatttc ttattaggtg ccagacatta tgaattttac cttactgggt 60
gttgggtaca tttggatgtc tttaagtatt cctgagaatt attctcaggt gcagttaggt 120
tacttatgaa tagtctaatt ctttagagtc ttgctttcaa gctctcttag ggcaggagca 180
gcctttagtt tatgactaat atggccctgg tactgagaca ctaccattct aagtacctaa 240
atacccaatg ccctgtgtag catgaggcat ttcactctgg ctgataggac tgtgaactag 300

<210> 2451
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2451
ggggccccca cgcaaactca aattccctga gcctcaagag gtggtggaag agttgaagaa 60
gtacctgtcg tagggagatt tgggtagaag ccctcatgct gagctttgtg tccctggtga 120
tgttggaaca ttaatgatgg aacatggcca aacttcagtc atgatcctga aaccatggct 180
tcaggatcat gactgaagtc atggtttctt ccctgccaga aatgaaggtt cagttatgag 240
gcaaccctct agtaaggcat tgtaaaagtt actggatttg gtttaataaa agttgaaata 300

<210> 2452
<211> 175
<212> DNA
<213> Homo sapiens

<400> 2452
ctgaatccag tcagacttag aagtagaagc tcgcagagag gaaagtctgc gtctcttcgc 60
aatttgttcc tggcgcttct ccttctaagt ctgaatccag tcagaaataa gatttttga 120
gtaacaaata aataagatca gactctgaaa aaaaaaaaaa aaaaaaaaaa aaaac 175

<210> 2453
<211> 300
<212> DNA

<213> Homo sapiens

<400> 2453
aggacctcca gttaaatttg aatttcagat gcctatgaat agttttcagt ataagtatgt 60
cccatgcaat acttgggata cgattgtgct gaagtggttt tcattgtttg tctgaacttc 120
aaatttaact ggacatcctg tatttttatt tgctgtcttg caacttggtt ctgagagaga 180
gacccgagtt cttcccattc acactgtgtg ttgggcaggg catttgggcc acttgatgtt 240
ggctaggtag gttctcatct tgagaaacca aatttctgat tcccagctct gtgccggtac 300

<210> 2454
<211> 133
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(133)
<223> n = A,T,C or G

<400> 2454
ctccaaggat cacagtagga tcctcgttgg tgacagtcga ggccgagttt tcagctggtc 60
tgtgagtgac cactccaggc cgttntgctg ctgatnactg gtnngaaaga tcaagcttac 120
gaanaacctt ctg 133

<210> 2455
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2455
aagagaccat catctcatca aagagagtta aaagtaggga tgttctctgc aaggcctctt 60
ctgatatgat taattgattg taaattaagt aatcaaggca tactttgttg atttgtcata 120
tctgggtaaa aggtttatgg tttatttaat aaatgaaact gcaaaatcag ttttctacat 180
ttctgttata tttttgttaa agcacttaaa agaatttctg ctctgtccag gggcaagatt 240
cttgccaaga gaattaatgt gcgtattgag cacattaagc actctaagag ccgagatagc 300

<210> 2456
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2456
ggtcagcaat ttgctttttc tgatgagatc ctggtgagag tcatgttcaa taaagtattt 60
agtcacgtgg ggctccagtg atttctctgt ttacaagctc attccttcct cattttctca 120
gaactttggt gttaacagcc tgtttcctat ttgtaggggc tgactttgac ttagcagatg 180
cctttcgtga tggaggaaat aacgacccag cacctcttaa ttcacccaag ctgaagccaa 240
atgcgaaccc tgagcagcct ggattcattg acgagccagc accactgaac ccacccaaac 300

<210> 2457
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2457
ctcagcctgt ggccagggtt gtgtctgaag agaaatccct catgttcatc aggcccaaga 60
agtacatcgt gtcatcaggc tctgagcctc ccgagttggg ctatgtggac atccggacgc 120

tggctgacag cgtgtgtcgc tatgacctca atgacatgga tgctgcatgg ctggaactga 180
ccaatgaaga atttaaggag atgggaatgc ctgaactaga tgaatacacc atggagaggg 240
tcctagagga atttgagcag cgatgctacg acaatatgaa tcatgccata gagactgagg 300

<210> 2458
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2458
gaaggacaaa aatatggcta tctgaataga tgcagaagag gcatttgaca aaatctaaaa 60
tattaagtaa agaagattat attagtccat tctgacatta ctataaagaa ctgtaggaga 120
gcagccccag tgcttataga taaaactccc atctccctag gacagagcac ctgggggaat 180
gggcggctct gggtgcagct tcggcagact taaatgttcc tgcctgccag ctctgaagag 240
agcagcagat cccccagcac agcgctcgag ctctgctaag ggatggactg cctcctcaag 300

<210> 2459
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2459
tctagactct ggtcgtcagg aacgggtcaa ggccttcacc atgagaagag caccaaaggg 60
agttaatatg gggttgacca gaggtaggca aaggaaggcc tgtgggccaa atctggccag 120
ctacctgttt ttataaataa agttttattg gaacacaacc atgctggggt ttgtttcata 180
tttcctgagg ctgttttcac actgcaatgg cagaggtgag tggttgacac agatgccgtc 240
tcaccaaagc ctatgatatt tactgtctgg ccctatacag aaaaagcttg ctgacctctg 300

<210> 2460
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2460
gagatgtgtc cagcgccccc tgtggtgtgt gagagaaagc agctgcaact caagtgacta 60
ggtgggccca gctggcttcg tgcaggaggg cacgtcactg catacgaccc ggccacccgt 120
gttctgaagg acagcgccaa agatgggtta gagtcactgc tgtgggagtc ttcgtcccca 180
cacagaggac aggctgctca gctccactgt gcaagatgat gcacacccag accagtgacg 240
tcaggacgat gctgctcacg acagcaatgg tgaagatgcc taccgtggtc ccatccttcc 300

<210> 2461
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2461
gaaaggccag tgacatttca gtattagtga catccagggt tcgttctgta atacttcaag 60
agcgcggtga tcgtgatctc aatggcctcc tctcttcact cgtccagctg ctttcagccc 120
ccgaagcccg aacactgttt ggcttccaat cactagtaca gcgagagtgg gtggcagctg 180
gacatccctt cctgactcgg cttgggggaa ctggggccag tgaagaggct ccggtgtttc 240
tcctcttcct tgattgtgtc tggcagctcc tccagcagtt tccagctgat tttgaattct 300

<210> 2462
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(275)
<223> n = A,T,C or G

<400> 2462
gtacttccta ggagtggttg catttgggaa tggaattgtt aaaacttgat gcttaggagc 60
gaatgcagac tattcattgg gtgtttgggg tgggggaagg gggggtgntc accccatngt 120
ccatcacctt cctcctctgn tctggntgnt aangnaagcc cttccggttc ccncaggcta 180
tgatgctgca tggcanatnc tgttataact cannnctaca tantggaaat tttttanttt 240
tctaaatacc natncngttt tnctncngtt acaat 275

<210> 2463
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2463
gcgggcgcga ccggaggcag tttccgttac tatggcaatg acggcaggga ctacaacaac 60
ctttcctatg agcaaccata cccgggaaag agtgactgta gccaagctca cattggagaa 120
tttttatagc aacctaattt tacagcatga agagagagaa accaggcaga agaaattaga 180
agtggccatg gaagaagaag gattagcaga tgaagagaaa aagttaccgt cgatcacaac 240
acgctcgcaa agaaacagag ttcttacggc tcaaaaggac cagacttggc ttggatgact 300

<210> 2464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2464
ctcagctcat gggaatctgc ctctcactgg tcctcactgg gtttatccca gtgaccaatt 60
ctaggatgac cagaagaatg attccactgg gcttgggagt gtttgctggt acctctaatc 120
tctgtgtaga gttcatggta cctgtgtgct ctgtggctag gtcctcagag tcagtccctg 180
ggcaggtact gtcagccttc agtttttccc acagactgtg ttcctgggcc tgaatcgctc 240
agactacatg ttccagcgca gcgcagatgg ctccccagcc ctgaaacaga tcgaaatcaa 300

<210> 2465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2465
ctgccttcca acaaaatcgt ctagcgggca gaggagttgg tggggcagga gttgccttat 60
tcgctgacca gtgacaactg cgagcacttc gtgaaccatc tgcgctatgg cgtctcccgc 120
agtgaccagg tgcatcttca gcctgcatcc ccttcccagg agccaggcca ctccctcagc 180
tgccagaggc tgggtccctg ctggggccag ggtgggatgg aaatagacat gagcaagaca 240
aaatagcaga tatgaaactg ttgtccttga gggtgtcaca tttggggtgg ggacaagggt 300

<210> 2466
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2466
gccatacaag agactccaga tatgcagcta gagaaactta aggaaggtga gcttatcaac 60
gtgcattcag aaagtggtta tgattacaag aatgaagata tcccagagga attgacattg 120

tcagaaaact tcacattaat cgaattctca gagatgtctc acaacattga aagcacaaaa 180
gatgaaatgt tagaagctgg tgcacagtaa ggataaagga gtatggcagt tcaccaaggc 240
atggaaaaga tgcctgctcc atattgttaa gttatacagt gagaagaagg aggcgaacat 300

<210> 2467
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2467
gtaaaaaccc tctgatgcaa aaaaaagtat taactttcac aagctgtttg tactcaaata 60
cattttctca gtttcagatc ctctgctgtt ttattgagtg gaaagttgag ctaaaacggt 120
tcaagaagaa taatgttgca tttccttatg tctcaggaaa cacttttat ggtaacttgt 180
cagattgtct atgaacaaac ccacttttt agacattgat aaagtcttct tttcttcacg 240
tgatatttta tacaagagca cttcagatgt attagatgtg actgatttta acaaatccta 300

<210> 2468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2468
ctgcgcagat atgctaggtg tatccacacc aacatgaaga cactgacctt gtcccgctac 60
atctgcgaga tgaccctgca ggaataccac tatgtccagg agaaggcttc caagctagct 120
gctgcctcct tactcctggc cctctacatg aagaagctcg gatactgggt tcccttcctg 180
gagcattaca gtggctacag tatctctgag cttcacccct tggtcagaca gctgaacaaa 240
ctgctgactt tcagttctta cgatagtctc aaggctgtgt attacaagta ttctcacccg 300

<210> 2469
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2469
gaaagcagtg gaccccatta ataatcctgg ccaactctcg tagtggaact aatatgggag 60
aagggctgtt gggagaattt aggatcttgt tgaatccagt ccaggtaact aaagaaaaaa 120
acttttata ttaatgtttt cattttcccc aaaatgcaat gattattaat gcttcaagtc 180
actaatcacc tgatcatagg aaagaataat aattacaaaa agatcagcca tttaaatatg 240
tggataaaca ggcactcttg tgggaatata aaatggtaca acctctttag aagacatctt 300

<210> 2470
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2470
gagagtctca ctctgttgct caggttggag tgcaggcatg tgatcatagc tcaccgaagc 60
ctcaacctcc tgagctcaag tgatcctctt gccttaacct cccaagtagc taggaccaca 120
ggtgggcatg accacacctg gctaagtttt aaaatttttc tgtagaggtg gtgtctcact 180
atgttggcca gactggtctc agatgcctgg gctcagcagt cctcctgcct caacctccca 240
aagtgctgta tgattgtttt aaataggaaa aaatttagaa ttttataata tcaaggcact 300

<210> 2471
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2471
ttctacttgt ggactaattt tggtgaccat ctttctgtct ctgcagtctc ttaagcagat 60
tgactatgat gcatgtcaca taaaacagtt ttctttctgt tctattgtgg agtttttctg 120
gggctggaga acattctttt gttatttcca aacactgtct ataattacca gacatgatat 180
aaacacataa ggtgccaact ggaatttact ctagagggga ctttccctct cagacttcca 240
gtcaactcac acttgtgcaa caaagtgcat gctgtcccct aaatatgcaa gcagaactgt 300

<210> 2472
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2472
gctttaattt gtgttatttc tttattgacg ggaagaggta catcttttt tccttactga 60
aaacaaatat ggattaattg cctcaaattt gcatanntga ttggctannng attcttgcnt 120
gcaganngtn nagnngtana gacnctatcn gnngcangcc gntnctnnnc naccataaga 180
tcgtgcatta tcctatgaca agatgaagcc cacagatatg cccgagnnnc agancacttc 240
ctgnnccccct gcgnaancng annnagncct ggncgtnann ctggcntccc tacgcgacac 300

<210> 2473
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2473
aagaccaagc gcatgcgaac ctctttcaag catcaccagc tccggaccat gaaatcctac 60
tttgccatca accacaaccc ggatgccaag gacctcaagc agcttgccca gaaaacaggt 120
ctgaccaaaa gagttttgca gggagaacaa atcttggggc attacagcca aacatcccga 180
cgtttgaaaa ttccctaaag tattaaaaga aggggaaaag tttgatcgga aatccactgc 240
agtgaagaca aagacactat taggttatga taatcataca ttaaaaaatt tattaagcca 300

<210> 2474
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2474
catcgatctt ctggtggcag tcctccttga agaggttgct gatgatgttg ctgcccgagg 60
gacacaaatt gttcttgagc actgaggtgg tcaaagcagt cagtgttctt gagcactgag 120
gtggtcaaag cagtcagtgt gctggagcca cagcagtcaa ggcctctaga actatagtga 180
gtcgtattac gtagatccag acatgataag atacattgat gagtttggac aaaccacaac 240
tagaatgcag tgaaaaaaat gctttatttg tgaaatttgt gatgctattg ctttatttgt 300

<210> 2475
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 2475
ttcaggagtt ggacgactgc tctttggccg gattgcagat tatgtgcctg gtgtgaagaa 60
ggtttatcta caggtactct ccttttttctt cattggtctg atgcccatga tgattcctct 120
gtgtagcatc tttggggccc tcattgctgt gtgcctcatc atgggtctct tcgatggatg 180
cttcatttcc attatggctc ccatagcctt tgagatagtt ggtgcccang atgtctncca 240
ngcaatngna nttctgctcg gattcatgcc tatacccatg actgttgncc cacccattgc 300

<210> 2476
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2476
gtgtgggtca cagacatcaa gtactttaca aggtaataga atatcacaag gcaagtggag 60
gcagggtgag atcacgggac cagggcgaaa ttaaaattgc taaatgaagt ttcgggcacc 120
attgtcattg ataacatctt atcaggagac agggttttga gatcaaccag tctgaccaaa 180
atttattagg cgggaatttc ctcttcctaa taagcctggg agcgctatgg gagactgggg 240
tctatttcac ccctgcagtt tcgacagtaa gagacggcca cgcccagggg gccagttaag 300

<210> 2477
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2477
gacaaagcaa aacatcaaca ttaagtcata ggctaggatt atacaaatga gaacccccac 60
cttatacatt acttaatata agttaactac aaagagcctc tccacttaca ttttttatcat 120
gcatcttaca ttttaatgtc cttattcttt tatagaaaag gtcataatac ccaataaaaa 180
agaatctgta atatcccctga tgcagcaaca attgatcaca tgctttcaca tgtgaccaca 240
ataggaataa aataacagcg taaagaaatt tgaaagttgt attacatcat tattcactgg 300

<210> 2478
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2478
catccatgta acgttgatat taaggccagc atctgggccc ctgtgtcaga ttaacaagat 60
tttcttggag tattaactaa cactttaatt taaaaaattg taaaatatta taaaaaagtt 120
tatagaaatt atatgttata gtcaagtgat taaaatttaa tagatttgtt tataagattt 180
gtgagacatt taattggcct catgctgtct ttatcagggc ttattgtttg gggaagtaag 240
tctcctctct caaagaataa aggtttttgc ctttttttttg aaatcttcga gttatcactt 300

<210> 2479
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2479
ttcaggagtt ggacgactgc tctttggccg gattgcagat tatgtgcctg gtgtgaagaa 60
ggtttatcta caggtactct ccttttttctt cattggtctg atgtccatga tgattcctct 120
gtgtagcatc tttggggccc tcattgctgt gtgcctcatc atgggtctct tcgatggatg 180
cttcatttcc attatggctc ccatagcctt tgagttagtt ggtgcccagg atgtctccca 240
agcaattgga tttctgctcg gattcatgtc tatacccatg actgttggcc cacccattgc 300

<210> 2480
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2480
ctgtgaagac ctggaaacag acaaaaaaga gcttgccaag ctccagactg tccagctgga 60
tgaagatatg caagacttat gaactttatt tcctcctcac ctcttttgg catcagcggc 120
aaatcttttc atgaagcccc aaggacacaa aacattttcc catttaaagg aaaacactct 180
agttttgcaa gtatatgcat acaagagact ttagattgat ctgcatgaag atcacagtta 240
agtatacagg agtagaactg cattattgca gccttttgt tcacttataa atttctcttt 300

<210> 2481
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2481
gtacccatat acacatatac acatatgtgt acccatatac acatatacac atatgtgtac 60
ccatatacac atatacacat atgtgtaccc atatacacat atacacatat gtgtacccat 120
atacacatat acacatatgt gtacccatat acacatatac acatgtgtac ccatatacac 180
atatacacat gtgtacccat atacacatat acacatgtgt acccatatac acatatacac 240
atgtgtaccc atatacacat atacgcatat gtgtacccat atacgcatat gtgtacccat 300

<210> 2482
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2482
ggggcaaaaa aaagaagcaa gttctgaagt tcactcttga ttgcacccac cctgtagaag 60
atggaatcat ggatgctgcc aattttgagc agtttttgca agaaaggatc aaagtgaacg 120
gaaaagctgg gaaccttggt ggaggggtgg tgaccatcga aaggagcaag agcagctttt 180
ccagcgcgct cgtcatttcc ggactctctg ctgcggaggg gggcaatacc agtgacaccc 240
agtcatccag cagcgtcaac atcgtgatgg gcccctcagc cagggctgcc agccaggcca 300

<210> 2483
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2483
aattccgttg ctgtcgctca gcccgcctgc acccaggtga aatagacagc catgttgctc 60
acacaaagcc tgtttgctgg tctcttcaca ctgactcgag tgaaatttgg tgccgtgact 120
aggatcgggg gacctccctt gggagatcaa tcccccgtcc tcctacactt tgctctgtga 180
gaaagatcca cctacaacct caggtcctca gaccaaccag cccaagaaac atctcaccaa 240
tttcaaatcc gtgatagatc acaacaagag attatgaaga gggcatggcc gccatgtcat 300

<210> 2484
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(288)

<223> n = A,T,C or G

<400> 2484
cccagctaca tgggaggctg aggcaggaga atcacttgaa cctgggaggt ggaggttgca 60
gtgagccaag attgcgccac tgcactgcag cctgggcaac ggacagtgac tccatgtcaa 120
aaaaaaaaaa ttaattaatt gcctntggnt taaacgtaaa ancntttntt ggancagcnt 180
aaangcntaa aatctgtttt tgttccaggn ggttgttaac aggactcatt ttttnggnct 240
ttganaggat cccggttact caacanaant gaaggaggaa tntgtaaa 288

<210> 2485
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2485
gtcagttgag agctgttcac ggggccctgt ccaagtgtca gtagaatccc acagttcctc 60
acacagttcc agagtcagtc ctaggggaaa agaggctccc tgcttgagga tgtttcctcc 120
ttgcacttcc cggagaggat gttcctgcat aaaccatttc cattttatta tggaactatt 180
ctgggcgctg ccatccccat ttgaatgttt ctctgacatc atgtgagaaa gcatgggtat 240
ttcaggtgtc aagatcattt tatgtccttc agtcattagg gatagtttca gttaatgtcc 300

<210> 2486
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2486
ggcagatgtc cttggagttc taccagaaga agaagtctcg ctggccattc tcagacgagt 60
gcatcccatg ggaagtgtgg acggtcaagg tgcatgtggt agccctggcc acggagcagg 120
agcggcagat ctgccgggag aaggtgggtg agaaactctg cgagaagatc atcaacatcg 180
tggaggtgat gaatcggcat gagtacttgc ccaagatgcc cacacagtcg gaggtggata 240
acgcgtttga cacaggcttg cgggacgtgc agccctacct gtacaagatc tccttccaga 300

<210> 2487
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2487
gaagaactaa tacagagaga tattgtatac attttaccta gtttccctca attataacat 60
ctttgcaaac tacaatacca tatcacaacc aggatactga cattgatacc taagacaaag 120
aagataaact gatagatttt taagtaactt ttgtcttctt tgtcagtgat tgtcaattag 180
agagagtcag gctatgagag gtaggctacc tgagtgtcag aatgaggtaa taagaataat 240
gcttctcctc atctctacta aaaatacaaa attagctggg tgtggtagcg catgcctgta 300

<210> 2488
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2488
ggacagcatg agcggcggtt ggatggcgca ggttggagcg tgacgaacag gggctctggg 60
cctggcgctg ctgctgctgc tcggcctcgg actattcctg gaggccgccg cgagcccgct 120
ttccaccccg acctctgccc aggccgcagg ccccagctca ggctcgtgcc cacccaccaa 180
gttccagtgc cgcaccagtg gcttatgcgt gcccctcacc tggcgctgcg acagggactt 240
ggactgcagc gatggcagcg atgaggagga gtgcaggatt gagccatgta cccagaaagg 300

<210> 2489
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2489
gactagaaag aggccctgcc ctctagaaag ctcagatctt ggcttctgtt actcatactc 60
gggtgggctc cttagtcaga tgcctaaaac attttgccta aagctcgatg ggttctggag 120
gacagtgtgg cttgtcacag gcctagagtc tgagggaggg gagtgggagt cttancnntn 180
tcttgntcta ggnttnatgg naaccanttn ttcacntttt tannatncct tgntttatnn 240
cagtttnttt ngtctgttnn ngagtntgtn tgtctatttt ttatttttctt tttntgtttt 300

<210> 2490
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 2490
aggaagatta gacactgtgg ccgagggcac gtctagaatc gaggaggcaa gcctgtgccc 60
gaccgacaac gcggagactc ttctgatcca accgctagaa ccgcgttggg atacagcctg 120
aactctgctg cagtgttcag antgtcacac agcccaactt tagcccgcat ctncaancag 180
gctttctacc atacccancc cacagcatct ggtatgacag actcccggtt tagctnacac 240
ctaactccat tgcctattgn tacttgncnt ttgcncatnc atccnaacct tnanggtcca 300

<210> 2491
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2491
gaaagagatc tgacctaacc aactttatct tgccttaact tccaaactgc ccttagtcat 60
tgatgggcat gggccaagct aacattggga gaaatttatt tcatagttta aatgataata 120
gccctttcaa aaactaaatg tcctttgtta aattaatgaa aagccaccag atggggagga 180
tgacaggggc ctgaattctg ctaagatgta ggcatagtta aatgattacc agtcattatt 240
ctggaggtcc caatatttgc aatttcccca attacttctg taaataacat cattattata 300

<210> 2492
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2492
ctcaactttg tacctgtgtg gctcctcttg ttagtgcaat gttgactgtt gaaaaagcag 60
cagtatgctt acaggtttgc ttagtttggg gacaccgtta ccaccagaat ggctgctctg 120
acaatatgcc tagggacttt ctcatggctt ttatttaata aggaggctgg gcaccctata 180
aagcctcatg cattcacacc tttgcagcat ggtttatgcc tcagtgttat gtgcactgga 240

atgttttcca cttcacattt ccaagtagaa atattagtgt tacggaagtg cctaatatcc 300

<210> 2493
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2493
ggaaaagttc caggaccctg agacatcttg ggattcctgt ggtttaggaa agacctttaa 60
ctaccagctg gtagttgtct cagcattctt caaatagtcc ggtcttgttt aatattatta 120
ttattattgt tatttaattt tattttattg caactgtact tagagaatag tctggtcttg 180
agacctttc actgtggtct gttctggtgt acggctccca ccagtgtgaa gcagaaggat 240
gactttgctc tgttgtcagg acaaccttga aggaaggagc caaatgtgtg gaggtctgtg 300

<210> 2494
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2494
attcctatta cagaccgaag aagtactttt caggcacact tggctccagt ggtttgtccc 60
aaacaggtga aaatggttct ttccaaattg tatgagaata agaaaatagc tagtgccacc 120
cacaacatct atgcctacag aatatattgt gaggataaac agaccttctt acaggattgt 180
gaggatgatg gggaaacagc agctggtggg cgtcttcttc atctcatgga gattttgaat 240
gtgaagaatg tcatggtggt agtatcacgc tggtatggag ggattctgct aggaccagat 300

<210> 2495
<211> 238
<212> DNA
<213> Homo sapiens

<400> 2495
aattcaaggc ctctcgagcc tctagaacta tagtgagtcg tattacgtag atccagacat 60
gataagatac attgatgagt ttggacaaac cacaactaga atgcagtgaa aaaaatgctt 120
tatttgtgaa atttgtgatg ctattgcttt atttgtaacc attataagct gcaataaaca 180
agttaacaac aacaattgca ttcattttat gtttcaggtt caggggaggt gtgggagg 238

<210> 2496
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2496
cgcgacgggg gttcagggaa tatttactgg gcctctccgc tccctctgct cttggaggtg 60
ccatgaggtc agttagctac gtgcagcgcg tggcgctgga gttcagcggg agcctcttcc 120
cgcacgcaat ctgcctcgga gacgttgata acgatacgtt aaatgaactg gtggtgggag 180
acaccagcgg gaaggtgtct gtgtataaaa atgatgacag tcggccatgg ctcacctgtt 240
cctgccaggg aatgctgact tgcgttgggg ttggagacgt gtgtaataaa ggaaagaacc 300

<210> 2497
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2497
atcaggtcct cagtctcctc tgacaccaga tggtaaacgg aatcccaaag gcattaagaa 60

gttctgggga aaaatccgaa gaactcagtc aggaaatttc tacactgaca cgctggggat 120
ggcagagttt cgacgaggtg ggctccgggc aaccgcaggg ccaagactct ctaggaccag 180
ggactccaag ggacagaaaa gtgacgccaa tgcccccttt gcccagtgga gcacagagcg 240
tgtgtgtgca tggctggagg actttggcct ggctcagtat gtgatctttg ccaggcagtg 300

<210> 2498
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2498
acaaggacaa gaaagaaagt acggttgcaa cggctggctc gcatgcatgc cgacatgatg 60
gaggatgttg aggaagtata tgccggagac atctgtgcat tgtttggcat tgactgtgct 120
agtggagaca cattcacaga caaagccaac agcggccttt ctatggagtc aattcatgtt 180
cctgatcctg tcatttcaat agcaatgaag ccttctaaca agaacgatct ggaaaaattt 240
tcaaaaggta ttggcaggtt tacaagagaa gatcccacat ttaaagtata ctttgacact 300

<210> 2499
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2499
ccgagctgac aagtcaactc taagcactta tctagaagac tgtaaatttg acagagagcg 60
aatagaactg ttttgcacgg aatatcagaa taataagaat tccctagaaa tcctactggg 120
aagtataggc agatctctcc ctcatataac ggatgtttct tggcgcttgg aatatcagat 180
aaagaccaat caacttcata ggatgtacag acctgcatat ttggtgacct taagtgtaca 240
gaacactgat tccccatcct atccagagat tagttttagt tgcagcatgg aacaattaca 300

<210> 2500
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2500
taaagacata agtaccacat taaatgctga tgaagctgtt gcaagaggat gtgcgttaca 60
gtgtgcgatt ctctcaccag catttaaagt gcgtgaattt tccataacag accttgttcc 120
ctattcaatc acattaaggt ggaagacctc ttttgaagat ggaagtgggg aatgtgaagt 180
tttctgtaag aaccatcctg ccccattctc aaaagtcatt actttccaca agaaggaacc 240
atttgaacta gaagcatttt atactaattt acatgaagtg ccttatcctg atgcaagaat 300

<210> 2501
<211> 300
<212> DNA
<213> Homo sapiens

<400> 2501
agcatgccct aaagagggac cagctgtagt aggtcagttt attcaagatg tcaagaactc 60
aaggtctaca gattccattc gtctcttagc tctactttct cttggagaag ttgggcatca 120
tattgactta agtggacagt tggaactaaa atctgtaata ctagaagctt tctcatctcc 180
tagtgaagaa gtcaaatcag ctgcatccta tgcattaggc agcattagtg tgggcaacct 240
tcctgaatat ctgccgtttg tcctgcaaga aataactagt caacccaaaa ggcagtatct 300

<210> 2502
<211> 300
<212> DNA

<213> Homo sapiens

<400> 2502
gacacattaa aagagagata tcaaaaaatt ggtgacacca aaaggaatac tcccattgaa 60
gctctctgtg agaactttcc agaggagatg gcaacctacc ttcgatatgt caggcgactg 120
gacttctttg aaaaacctga ttatgagtat ttacggaccc tcttcacaga cctctttgaa 180
aagaaaggct acacctttga ctatgcctat gattgggttg ggagacctat tcctactcca 240
gtagggtcag ttcacgtaga ttctggtgca tctgcaataa ctcgagaaag ccacacacat 300

<210> 2503
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2503
aggntnnttc naanagccag gctcttgttc tttttgcagg atcccatcga ttcggctgac 60
tacttggaag cttgtgtagt atctgtgttg cagatccatg tgacccagcc ccctggggat 120
atcctggtgt tcctgacagg acaggaggag attgaggctg cctgtgagat gctccaggat 180
cgctgccgcc gcctgggctc caaaatccgg gagctcctgg tgctgcccat ttatgccaat 240
ctgccctctg acatgcaggc ccgtatcttc cagcccacac cacctggggc acgaaaggtg 300
gttgtggcaa cgaacattgc tgagacatca ctcaccattg agggcatcat ttatgtgctg 360
gatccagggt tctgtaagca gaagagctac aacccccgca caggcatgga atcgctcact 420
gtcacaccct gcagcaaggc ctcagccaat cagcgagctg gcagggcang tcgggtggct 480
gcagggaant gcttncgcct gtataccgcc tgggcctatc aacacgagct tgaggaaacc 540
acagtgcctg agatccagan gaccaacttg ggcaatgtcg tgttgctgct caagaactta 600
nggatccatg acctaatgca ctttgatttc ctggaccctt caccatatga gaacacttgt 660
tgctggcttt tggancaact tgtatgctct nggaacccct taancacctt ggggagctta 720
ccacgtntgg tccaaaagat ggcanaactt gccggtgga 759

<210> 2504
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 2504
gnaggnnnnn tttnnngggn tntatgcagc tcttgtcttn tgcaggatcc ctcgattcgt 60
ttgaatatgg actatagttt agataatagt cttaggtaat agttaaatgt cctgggtttg 120
attattgtgg ttatatgggg gaatgtcctt gtactcagaa gacatatgct gaagtacagt 180
atttagagat aaaagtgtca tgtttgcaac taactttcaa atagttcaga aaaaaaaata 240
tgtatatatg tgtctgtgcc tgtatatgaa agagagaaca caaatgtggc aaaatattaa 300
caattggtgg gccaggtatg gngggtggct catgcctgta atcccagccc tntgggaggc 360
tgaggaggta ggattccttg agcccagcag tttgagacca gcctgggaaa catagggaga 420
cgctgtctct ataaaaaata ataattcaat ttanaaaaaa ttgatgaana taggtgaagg 480
gtatatgacc tttcactaca ctatncttga aatntctctg aangtttgaa atttatcaaa 540
atataaaaat tgagaaaaaa ttttcaaact gccacagtca ataattgaat ttctcagcct 600
gcacagtggc tcatgcctgt aatcccgcac ttttgggang ccaaggcggg cagatcactt 660

gaggtcagga attcaagacc agcctggcca acatggcgaa ccctgctntc caaaacccaa 720
aaatt 725

<210> 2505
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2505
ttnnaataca ggctacttgt tctttttgca ggatccctcg attcgctgaa ttgtatcctt 60
gaaaaatgct atgttggaat cttaatcccc aggacctcag aatgtgacct tacttattaa 120
aaacagggtc tttacagagg tgttgcagtt acagtaaggt cattagggtg ggccctaatc 180
cagcatgact gatgtcctta aaaggggac tttggagaga aaaacatgct caaggaagag 240
gatgtgaagg ctacgtgaag agactggagt gatgtgtctg caagccaaag aacaccaaaa 300
atcgtcagcc accacctgaa gctggaagag gaaaggaaag atcttcccta gggccttcag 360
agggaacacg gccttgatct cagacttccc ctctaagaac tgtgggagaa tcagcatctt 420
ttgtttaagc ctcccatgtt gtggtcttta ttgtggcagc ctgagcaaac acagtggcta 480
aggaaactaa tttcaatcag agacaatatt caaaattcag cactggatat tggcaggact 540
aggcactaac cagtcagaag agatgacagc tttgaactac tcacacaggt gggccactgt 600
ggggcacaga gatgatgtat tggnaaccag gagtcacata ggacgatggc tcaatgacat 660
gagaaaacag ggttggangg aaggaactta agaatgctca ataccttgna aatgggnaca 720
aaagaaagat tanttagatc cn 742

<210> 2506
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2506
gaggggggnt tnaagaccct tgctacttgn ctttttgcag gatccctcga ttcgaattcg 60
gcacgagcct gcctcccatt ctatgcaaag tcatccctcc gtgcactgag ataaatgctt 120
atctaattgc ctcctttgga gaggctcatc agaaactcaa aataatgcaa ccatttgact 180
ctcacctacc tgtgacctgg aagatccctc tctgcttgag ttgtcctgct tttctggatg 240
gaaccaatgt tcatcttaca tatattgatt gatgtctcat gtctccctaa aatgtataaa 300
accaagctgt gccctgacca ccttgggcac atgtcgtcag gacctcctga ggctgtgcca 360
caggcatgca gcctcaacct tggcaaaata aactttctaa attgactgag accagtctca 420
gatattcagg gttcacagta tccaaaaatc caatcacatc tgaaaccgcc tttgcaaaaa 480
ttatcacagt gagaaaataa tggcagtgaa agaaagctga tctagccaac ctcctcttg 540
cctttagctt tcaagctgct tttacttatt cctgggttta agccaagcta catgtgggag 600
tcatttagtt gatagtttaa attataataa ccctttcccg aaacttaacc acccttgtaa 660
tactgagaga ccaccaggct aggagganga nangagccta aattctgcta aggggtagac 720
aaaaacaatt gtgangcgtt tttcaaaagc cc 752

<210> 2507
<211> 733
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2507
nnngggngggt tttanatcag ctcttggctt tgcggaccct cgattcgaat tcggcacgag 60
aagaggaagg taagtagata aatagggaag taaaccaggt ttctaattca tgggtgaatc 120
cgagagaata ggtatcagat tagggattac aaaatgtagc atgggtacta aatatcagta 180
caaagcagcc acaataatat tgatttatgg atttaagtaa cccgaccaaa ccttgatgta 240
tctcatcatg ttgaatttct gctccagata ataaagtatt gtttgatctt gtgcattggc 300
cttttatttt tcagaatgat tcaaaggatg gctttgggga ttcactgtaa gatttttgt 360
catctaaatt atacttgagg tggagaggca taatttaaac aacttcatag gcaaagaaaa 420
gagctataca cagcagatcc tggattagga aaataaatac gttttattat tcagaacatg 480
cttttatgaa ctccttttaa aaaattgcaa gccttgcagt gagctgagat tgcaccactg 540
cactccacct ggatgacaga gaaagacttc gtctccagaa aaaaaaaatg aactccagta 600
cagataaccc ccgcggggcc ggagatttct accttctgcc ttactcccat cagaagaatc 660
gagtttatgc atcacagtna catgtcactg gccttcagcc cccggcccat ccgtcacctt 720
gctgngtcgt gag 733

<210> 2508
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2508
gnggnggntt naaatanaca ngctacttgg ctttttgcag gatcccatcg attcgaattc 60
ggcacgagct ggtcagggtt tgactcagga agctgagttc cagcttgttt ccttggcagc 120
actgccaaag agttagacca agctgcagct tttgaggtga aaggggatgg aagaaagtac 180
tgttactttt ccacttagaa tttttggact ttgttcttaa tgaataggtt cattttcaat 240
ttcaaagcaa agtgttaaca tttttgaaat ttgtctcaat tctaaaggcc aaacttaaat 300
atgtctcctc ctactggggc atggagcaag ttattcatca aatacagatt ctcgcatgga 360
aaagaaagct aggatagtgt gtcgctgctg ctctgtggca aagaacagct cctttctaag 420
caacagcctc actctactag aataggtctg agcgcgccca ttcatggctg attgcaactt 480
ccactgggtg ggatttcaga tctagaatct gttttcagat gccttaaaga gaagacatag 540
aaacacattc ttaacagttt caggggagat agttgggata gtttgtagtt ttgcttaagt 600
tatatgtgtc tgntttctgc ttttggtggt aacngactaa cccttaattt gggtggttag 660
agaantgatg ggaagacctn aagaaagctc anatgacatt tggctttgct ttaaatgtgt 720
agttttctct cacaaggcta gtcagaaaat 750

<210> 2509
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2509
gnngggtntt tananccagn ctctgttctt ttgcaggatc cctcgattcg aattcggcac 60
gaggtggcat ttgatgctgt gggttggagc ccagctttgg ggtcagacac acctgggttt 120
gaatcacatt gctgcccctt ccaggctcac atcattttat ttctttttc ttttctttn 180
ttttttttt tttgaggcag gagaattgct tgaacccaag aggcggaggt tgtggtgagc 240
cgagattgca cctttgtctc cagcctgggc aacgagcaaa aaactctgtc tcaaaaaaaa 300
aaaannnaag aaaaagaaaa atggcttcca ggacagagca tgctcatttg ctggcggaca 360
gttccagaaa cagaccctgt tagtccttct acttacctgc tggatttttc aagccctaaa 420
tttataactt tttgaaacaa aataatgngt aattttccat ttgggggcaa actctattct 480
tgngagcatt attaaaatct tggttggtaa atatattggc tttctcttaa tattgctctg 540
ggtcaggaag aagctgttca cggtgtgata atactcttta gatgggcttt cattattata 600
gatgcatcat gtcttctgct ttcacgtgtc tggggatggg gtcaaaaatg catccttcag 660
ctgacagaaa aatccaggat gagatccgaa ggatactggg gtttctgact tttccaaaat 720
acttggtngg tttcattaaa aaaaa 745

<210> 2510
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2510
cttggctttt tgcaggatcc catcgattcg aattcggcac gagcagagct tagacatcca 60
aaactaatca atgctgaggt ggctaaatac ctagcctttt acatgtaaac ctgtctgcaa 120
aattagcttt tttaaaaaaa aaaaaaattg ggggggttaa tttatcattc agaaatcttg 180
cattttcaaa aattcagtgc aagcgccagg cgatttgtgt ctaaggatac gattttgaac 240
catatgggca gtgtcaaaat atgaaacaac tgtttccaca cttgcacctg atcaagagca 300
gtgcttctcc atttgttttg cagagaaatg tttttcattt cccgtgtgtt tccatttcct 360
tctgaaattc tgatttttatc catttttaa ggctcctctt tatctccttt cttaaggcac 420
tgttgctatg gcacttttct ataacctttt cattcctgtg tacagtagct taaaattgca 480
gtgattgagc ataacctact tgtttgnata aattattgaa atccatttgc accctgtaag 540
aatggactta aaagtactgc tggacaggca tgtgtgctca aaggacattg attgctcaaa 600
ttttaaggaa atgggnccaa tgaaccgtng gttgtgggga aggggaaaga ngaaaccnga 660
gcttggtcan aatgtggaaa tnggatctgg tggnaataaa catgtttaaa accaanccnn 720
nnnnanaaaa aaaagncctt tttta 745

<210> 2511
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2511
nggttnttta nanncaggct cttgtctttt gcaggatccc tcgattcgaa ttcggcacga 60
ggtaaaacat gtaatttgga catgcaagac aatgctgctg ccaactaaca ttgcattgat 120
tcattaagat gttatttttg aggtgttcct ggtctttcac tgacaattcc aacattcttt 180
acttacagtg gaccaatgga taagtctatg catctataat aaactataaa aaatgggagt 240
acccatggtt aggatatagc tatgccttta tggttaagat tagaatatat gatccataaa 300

aatttaaagt gagaggcatg gttagtgtgt gatacaataa aaagtaattg tttggtagtt 360
gtaactgcta ataaaaccag tgactagaat ataagggagg taaaaaggac aagatagatt 420
aatagcctaa ataaagagaa aagcctgatg cctttaaaaa aaatgaaaca ctttggatgt 480
attacttagg ccaaaatctg gcctggattt atgctataat atatattttc atgttaagtt 540
gtatattttt cagaaattat aaatattatt aatttaaaat ttgaatttgt gtttgactaa 600
caacctcgat gggatcttct tcaaccttcc attaagatcc ctgcagnaag aaaatnggaa 660
aatattcaaa tanttgcaaa ggtggtaaat tggngaagac caacttaatt attaataccg 720
tggttnaagg tttcttactt gggaccccca ttggnaaatg gganttaaag aaaaa 775

<210> 2512
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 2512
ggtangnatg gggtttttnc agcacttggt agttttgcag gatcccttga ttcgaattcg 60
gcacgagcct gcatgcnntg ntgcnnagtg nntgangnct gaaactcngg tatnncncat 120
angnctgtga ncantgatca ntagggacnt aagatncata tnntgctgct ngnnactgaa 180
nnncntgtgg ngntntagng nngntgtatn cctcngngga nantntccan ncatngtggc 240
aggcacctnt agtcccagct actcgggagg catnaggcaa nagantggcg tgaacctggn 300
aggtggagct tgnagtgaag ccaagatcnt gccactgcac ttcagcctgg gtgcagatga 360
gactccgnct taaaaanaaa cagaaaatac gctcaatnan taatacattt ctgcccaaga 420
taagagnctt ccctttttgtg gaatggntat gaaaaatatt ttnaagannn ttttttaatt 480
aaccaatant gtcttgatta cttnnncctt tcatttgcct ggatcatcat ntnaatngnc 540
cttgggaaat gtgatgaaaa anggtaancc ctttggntat ggaatantng cntagatgan 600
cattngaatt ttaggggana agactattgn ttngggaaan cttgtaactt nctttttttgg 660
cntnnaaaaa ttgtcnnagg gttttanaan aaaaantttn ggattggntt ccgttgngtn 720
attactngna aatnctanna actttcggnt agggcccann tttaatgaat ttttttntanc 780
ccctntannt ttcntaanct aannettgtc aaanaaanan t 821

<210> 2513
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 2513
ggtangnatg gggtttttnc agcacttggt agttttgcag gatcccttga ttcgaattcg 60
gcacgagcct gcatgcnntg ntgcnnagtg nntgangnct gaaactcngg tatnncncat 120
angnctgtga ncantgatca ntagggacnt aagatncata tnntgctgct ngnnactgaa 180
nnncntgtgg ngntntagng nngntgtatn cctcngngga nantntccan ncatngtggc 240
aggcacctnt agtcccagct actcgggagg catnaggcaa nagantggcg tgaacctggn 300
aggtggagct tgnagtgaag ccaagatcnt gccactgcac ttcagcctgg gtgcagatga 360
gactccgnct taaaaanaaa cagaaaatac gctcaatnan taatacattt ctgcccaaga 420
taagagnctt ccctttttgtg gaatggntat gaaaaatatt ttnaagannn ttttttaatt 480
aaccaatant gtcttgatta cttnnncctt tcatttgcct ggatcatcat ntnaatngnc 540
cttgggaaat gtgatgaaaa anggtaancc ctttggntat ggaatantng cntagatgan 600

cattngaatt ttaggggana agactattgn ttngggaaan cttgtaactt nctttttgg 660
cntnnaaaaa ttgtcnnagg gttttanaan aaaaantttn ggattggntt ccgttgngtn 720
attactngna aatnctanna actttcggnt agggcccann tttaatgaat ttttttntanc 780
ccctntannt ttcntaanct aanncttgtc aaanaaanan t 821

<210> 2514
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2514
nggttttaga tcagctactt gttctttttg caggatccca tcgattcgtc caaccctggc 60
gatgtcacca gcatggtggc tcaggttaga gctctctgag gacccagcat agagcactgg 120
tgccagggac caaactgaga ccccaccacc gtcatcaaca cttacatacc ataaaggtct 180
tcagagtgcc ttggccctag acctcccttc attctttgta gagatggaat ctaagaatga 240
aacatctcca ctcagtcctg caaatatgga agttcttgag atacctttt ttggtagata 300
cttgtgctgg tattctgaga gtcactttac tctgatggtt tgcaagattc ctaaaatcaa 360
ctccagagct tacaagacag gtttgagaga gggagaaagg aaaaccaact tactggcccc 420
catgccatct tttcccgttt agccattggt aggctgggct gcacctctgt caagtgtcct 480
catggtattc tctctgttcc tctcctcagg ccatgggtgt atatggagcc ctcaccaaaa 540
gccccagtgc cagggactnc agactcactc ttcagtggga gcagcagaga tgtccagggt 600
acagatgcaa gtcttgatga ggaacttgat cgagtcaaga tgagttantg gaactgggct 660
tggccaggga gtctggggac aaggaagcag atttcctgat tctggctcta ctttcctgcc 720
aagatttggn tttaattttt aattgga 747

<210> 2515
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2515
gntnggttaa nccagctctt gtgctttgca ggatcccatc gttcgaatnc gnctngagag 60
acagantnct gantggaggg gntgaaactt cnnagggnca cagagctgtn cnagnectgn 120
gngctgcnta tgagcactgg gttcccngag anaagatcct cncnactaat actgggtctt 180
cagagctttg caannt ggcn ncaantgctt ttcttgccca nagaataanc agcatnaact 240
ccatangngc tctgngtgaa gcancangag ctgatgtata ncangtagcn ncagcnattg 300
gaatggacca tanaatngga aacaagtttc taaanccann gtagggntag gtgggagctg 360
ttancnaacg gatgntctga attaggatna tctntgtgan gctctgaatt gccanaatnc 420
nctcgttatt ggcancaggt natagacatg antgactacc ataggangag gttcgcttnc 480
cggatcatag atagcctgtc taatacctaa ctgattanaa gatcctatct tgggattngc 540
attcaaaann gacactggtg attcaagaga atcttctagt atatatctta gcacatattn 600
cgatggatga aggtgcacat tnacntatnt atgaatccan aagtncctan ggaacaantn 660
gtngnggatc ttgnctatca agtgttttag aggatgacca attntnccgg cttggngacc 720
atttcnaagn ntccttttga agcnng 746

<210> 2516

<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2516
gntnggntcn agancagcta cttgttcttt tgcaggatcc ctcgattcga attcggcacg 60
agcctgcagc cactaatgca ttgtgtatga taacaaaaac tctggtatga cacattttct 120
gtgatcattg ttaattagtg acatagtaac atctgtagca gctggttagt aaacctcatg 180
tgggggtggg gtgggggtgt attccttggg ggatggtttg ggccgaatgg ggagtggaat 240
atttgacatt tttcctgttt taaattctag gatagatttt aacatccttt gcggtcccag 300
tccaaggtag gctggtgtca tagtcttctc actcctaatc catgaccact gttttttttcc 360
tatttatatc accaggtagc ccactgagtt aatatttaag ttgtcaatag ataagtgtcc 420
ctgttttgtg gcataatata actgaatttc atgagaagat ttattccacc aggggtattt 480
cagctttgaa accaaatctg tgtatctaat actaaccaat ctgttggatg tgggttttaa 540
aaaatgtttg ctaactaccc aagtnagatt tactggatta aatggccctt cgggtctgaa 600
aaagcttttt taacttcttn gcttaaaatg ccgtttaatt ttgataagat ncttnaaatn 660
gcctccaaaa gtgttananc caatcatttn aaataaaccn ggntgtatat tgcatnatgt 720
gtacatgcnt atncccttct ggttaaaact naaaaaaaaa t 761

<210> 2517
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2517
nggntctata gcangctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agctgggggt cctgcagtgc ccgccttctt agctcagggc ctttgcatag gctgttcctc 120
tgcctgggtg cttttcctgc tacttcccgt ggctgcattt gcttaactta ctcttctgat 180
ttcagtctca atgctgcttc cttaggggta agccttctct gaccctacat tctgtagaga 240
taccccccatt ctgccattct ctcttttgtg gcctgggttt cacttgtaac taagtcatta 300
tccctgtatt tggtttgctt agtacatgtc tgtcctcaag caggggctgg cttcaggctg 360
ctgacccgtc tcactgctcc ttctcacccg ctcctggctg tggcttctcc tcgaggctgg 420
tgctgcacgg ggcgggcagt gcatggccat gtctccttgt cagcgtccta cttacaagtt 480
gaggaagccc acagccagga agtgacttgt ccagggtcac agggaatgtg gagagagaat 540
aagaaggctc tggcttctan gggganggang cttataactc tacactttcc tggccaggat 600
caccagggtc tgttggggaa cacataagtc cctgcctgga tggtaaccct tttgccttct 660
tccaaatgtn caatgcctgg aanacggtgg cctgccgggg gaccaaggac caacttttta 720
tgcaggaaaa ancccggaa cttctgggcc 750

<210> 2518
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(749)
<223> n = A,T,C or G

<400> 2518
gggnggntcn aaagccangc tcttggcttt tgcaggatcc ctcgattcga attcggcacg 60
agctacccta cagatattga atgcaccttg agataattta gtgtttttaa ctgatacata 120
atttatcaag cagtacatga aagtgtaata ataaaatgtc tatgtatctt tagttacatt 180
caaatttgta actttataaa catgttttat gcttgaggaa atttttaagg tggtagtata 240
aatggaaact ttttgaagta gaccggatat gggctacttg tgactagact tttaaacttt 300
gctctttcaa gcagaagcct ggtttctggg agaacactgc acagcgattt ctttcccagg 360
atttacacaa ctttaaaggg aagataaatg aacatcagat ttctaggtat agaactatgt 420
tattgaaagg aaaaggaaaa ctggtgtttg tttcttagac tcatgaaata aaaaattatg 480
aaggcaatga aaaataaatt gaaaattaaa gtcagatgag aataggaata atactttgcc 540
acttctgcat tatttagaaa cataccgtta ttgtacattt gtaaaccatt tactgtctgg 600
gcaatagtga ctccgtttaa taaaagcttt ccgtagtgca ttggtatgga ttaaatgcnt 660
taaaatattc ttagactcga tgctgnataa aatattatgg gaaaaaaaag aaaatccgta 720
ttttgnctct naacttttat tgaagtttt 749

<210> 2519
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 2519
gngtggnnnn nntttctnaa atagcgctct tgtcttntgc aggatcccat cgattcgaat 60
tcggcacgag gaaggggttt aaaaaggaaa aggtgtggaa gagatgcagg agtggtgcag 120
gtctgaatgt cttgttgtga tagttatatt gagtaattgc ccatctggag gtatggtttg 180
tgtcatcttg acttcagctg ggtaatgcta ggctaactgt tcgaaactcc ccccatgcaa 240
gaggagtctg caactccatc tctgcttggt ttgtttcaaa actggccccc gaaatttcta 300
agcaagtacg taattagata agtgaacact gttcatggac atgcctggtg ggaaagggag 360
aaactaaggg tttcaaagta tgcttccagg ctgaaagcaa aaaggaaaaa aaaatgttct 420
aaattgcatt ttgagggttg gatactcggt ctatgaaaag tgatgaatta gcttctctat 480
tagtaagact ttataacatc tatatgnttt taaaattttt acttatttat tgggtaaaag 540
aagcatttaa atgtggccaa gggctnttga caaagttctt angtaaccaa tgttagggaa 600
naatgacttt ttggggcaac tttttgggaa aaattgacct tgcttaaaaa gccaaatttg 660
gttaanncna cccccaaccc ttgacaangg gtttcngnaa ntnnatnggg ggcccgccca 720
aanggnggaa accttggggt tcccaaagaa accttccctt gggggcccct tgggncttan 780
cccantnaaa ttgggc 796

<210> 2520
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(979)
<223> n = A,T,C or G

<400> 2520
gngnagnnnn nttnnnngnn gcgnggnnnn ngnnngnttt ttngatcagc tcttgttctt 60

tttgcaggat cccatcgatt cgcacactcc aggctgagaa aagagtaatt aggaggcctg 120
aggaggggcc cgaggaaagg ctgttggggt gtgctggggt tggtacccga gcgccttccc 180
ctcacctcaa ccagagaaga gcntccggtt gctttttaaa gcttttagcc tgccctanca 240
aggacaaagc atgttagatt agagatgctt ctgctgatcg caggggttct tatttgaaaa 300
catctatgat gggggtgggg tggaaggaac aggttgtggt tntgcaggaa annntgnnct 360
aaaaattntg antnngnggg tnaggnnnnn natnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 900
nnnnnnnnnn nnnnnnnnnn 960
979

<210> 2521
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2521
gcggtcnatg ctgctcttgt tctttntgca ggatccctcg attcgaattc ggcacgaggt 60
gtgagttgca tataacatat ataaaagctg taacctggga aaaagttatt atctggaagc 120
tttagaaatt aatgttattc tttcttaagt atcatcagga aattaatcaa aatggccacc 180
ttgataccaa aaataaggtt ttggggcata acatccttat gaattcaaat gttagtcatt 240
tcacatatct tccactttat ttcattaagt ccttcctagt agacactgtt caaacattat 300
tcaccattta ctaatgctgt tacaacatta ttttagaaga tggatatgga tagctgttct 360
agcttttaaa gttttcagtg taaagcacca tgtgctaaac attggccagg atattctgta 420
tgaaatggct ttagttacag gcctgtctga caacagtttt catcagaaaa gtatgcttat 480
tttccttttct tttagaaaat ttggctgaaa gcaattttgg caaagtcagc atagccttaa 540
gtgtcacatg agaaagatgg aattgaagtg gctgttaggt agacctgacc tgggtatggt 600
gactgtggtg acatgagtcc tttggaggac acagcgtctc tncagcatct ctcttctgag 660
ggtcactctc ttttgtaggg gcttaccccc ttgncaatgc tacacacaaa aaaaa 715

<210> 2522
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 2522
gnggttttnt cttgngcagg atccctcgat tcgaattcgg cacgagcccc tctccacatt 60
gacctctaga agtgggcctg tccaactcct aagtccancn ttcccacacc gggcagaaag 120
ctttttactg gccccgttgc tcccgggtga ggcctaaaca cttgatgatg atgaagatga 180
atatgngatg atggtagcca tcacacagnn tttcccntgt aaccctncga acaaccctgc 240

anggcaaata gtntcaccat cctcntttgg caaatgaaaa gctgatggct canagaantt 300
aaatgacttg cccaaggtga ctgagccant angccacana caggctccaa atcccantct 360
ggaccgattg gatgggcatt cctgggtggg ccggctccct ctctggcaag gctgtcatgc 420
tcccccagtg ccctggcttc agctntggct ggatcagtaa aganccaagt cgaagatcaa 480
gtcagggaaa actcatgttt tgnggctaag aantattgct acccttaatc tcttcacttt 540
ctcttnagct ncatgaagga gcatttaact tttngaagga gtcattttcc acaaaggaaa 600
cagttcttaa aaatnctgng gggttgggct cactggctna cacctggatt tccagcactt 660
caggangcca agatgcagat cactcgagcc ttaanaagtt caagaacagn cccgggtaac 720
gtggca 726

<210> 2523
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(868)
<223> n = A,T,C or G

<400> 2523
ggcnggtctt gccttttgc aggatcccat cgattcgaat tcggcacgag ggccagtagg 60
tgctaaggtg gacaccaccc cttcntccct ntncagaccc atcccaccac cgtggntttg 120
nccnttccna gctgcntaat cactggacca cctggnatta cnngngtgan ccancacaac 180
ngtcctgtac nctatgntgg atncctantt agatntcctg nctntntgga tannnnanna 240
cntnancaga cnatgaacng tntgnacata ttatatnaca tgnangatgg ttgtganacn 300
nttngtacng tagaagtgtc tcttctgagc ccattgnntc nttccnagat atanntngga 360
cntgattttg acttgcattc agcattntan aanactttta cagttgatgn nactnattac 420
cnancgnact gctnnttcat tncaaatnat tattcagggt accnaagggt atttttctaa 480
accattgtan tttataaatc caaggggaaa tttccccntt ccctnnntnt tnttngaaat 540
nttggnngcc nanngaaant tttnanaana aaccaatggg ctttaaaaaa aatggggccn 600
ttaaggatta ttaanccgng nttnattttc caancagnag ggaataaaaa ctgccanatg 660
nggcccaatn nanacccntg atnaaagggt ggtangtatg cctngggtat tnaggaggga 720
tttaanttcc ctttgttttn ccaccncttn ttggnaaacc cnnncgggta aananggnnt 780
tannttgggg tnnnnggntt annncncttt tnaacntnna ntnnnnggct ncttcccgtn 840
gnatcctnan cttgatnnga ncccattc 868

<210> 2524
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 2524
gnagnnnnnn nttttnnagg ngcgctcttg tctttntgca ggatccctcg attcgaattc 60
ggcacgaggt ttctaagcac ttcctgtatt gcatatcaac tcatttaatc ctcacagcaa 120
tgtgagatac atactatcct ccccatttta taattgaggg aactgaagca tagacaggtt 180
acatagctgg tgactggcag atgaattgac ttagccgtgg tcctgcaggt gatgagtggc 240
agcactgtgc tcttatcacc agctcttgag cgtgctgcat cctctcattt gtcgttggtc 300
tcccctagtg ttcagtactg tgccttgcac gtgtttatac tcagtagctt ttgaatgaca 360
gacttacatt gcaaatacaa cagatttcca tgtcttatta gaaactgctt ttcttgaatt 420
actacatgta acttgaagga ttggtgaata tttacagttg ttgaaataca aaaacaggtg 480

gctgaactta gaaaccacca agtggcaggt gactttgcct gacatccgtg ttcacagacc 540
tncacagccc ctggtgaaaa ccacttcttc atgtcccacg tccatctaat tacatgtgtt 600
atttttgnc atttgcagag tcaacggttg caggaaagtt tgaaagaaag tgaattacat 660
caaaatcttg gnatagtata taagtcatct ggtttcaaaa tataactttt tttgaacctc 720
agcaactttg aatggat 737

<210> 2525
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 2525
aggnntntga nccagctctg ttctttgcgg atccctcgtt cgaattcggc acgagaataa 60
gcttttcttt aaattaatta gaaattactt gtaggaaatg tatagaataa caatgatcat 120
ttttttaac taaatgattt acaatagtga gaaagttgac cttgagttac atgttgaaag 180
aatagtatgt aagctggcaa cagaaattga aattgagaca gatttcagca ccactgttgg 240
taacaggctc ttattccaga ggaaacatgt cagttttta ttagtgagta aaggatttct 300
gcgaagcttt aagaatatct catgttgagt attgacatgt attttgaatg atgattttat 360
gaaataacac ttgggattat ttttcttatt ctgnatcccc caaattacct taaaaactta 420
catcttttgt tttgggaggg atcctttagc aaatatgcct tttgtatggg aaagatcctt 480
ttatgaaagg tatacctatt aaatatttta gtttctantt accaatatca cntattccga 540
aggatanttt antaaaaaat tggccaaagg tccaggacct cnttttaaaa accaaaacct 600
tttaatttta aaangaatat tnccaaggga ttacccttag gaatttaatt cccaaggaaa 660
aatcctcaat tttccantcn atggtttttg gccattttnc ttctttttaa aaanccaatn 720
gggttnaatg gcccttggnt aatttgggta ataatngccn tanctggagt ggacctggta 780
ggnccttgga aantnccgga tctnggggtt acctttggna tggactggga taacc 835

<210> 2526
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2526
gngtgtgnnn nnntttntta aatgcggctc tngccttttt gcaggatccc atcgattcgt 60
gcacactaac atggcacctg cntaaaancc acagacnggt aactttaggg acttcacagt 120
ggactcaagc agactgatcc cagattgtag gtagaagtgt gtttgcaaag gccagaggag 180
ctgttaggac ataatgcgat ggagacaatt tgcaacaatc actgantcca cgtttctgct 240
gtttaagggt ggctgaaagg atggaggtnt agcttgtaat gcaaaatata cgcagaggtt 300
catagtgaag ctgaggagga gggccttcaa aagttaagtg ggagatgttt aggtcagtag 360
caaatgggcc cagtgggaga gagtatgccc agagtttgga gagggtcang gtgtcnggtg 420
ctgggatgag ggcttcatgt ttggaagacg caaggtagag agccangaga ggaggaaagg 480
tagaacagga tgganggcaa gacctgtgta agaagaagtc ttaaactgtc aacccaacac 540
aggcatgctc ataaggaaag gttaaaaaaa aaaaanaaaa aactcgacct ntanactata 600
gtgagtcgta ttacgtagat ccagacatga taagatncat tgatgaattt ggacaaccac 660
actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gngatgctat tgctttattt 720
gtaacctttt taacctgcat 740

<210> 2527
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2527
nnngaggntn nanancagct cttgttcttn gggcaggatc cctcgattcn aattcggcac 60
gaggctagtt cgagtttttt ttttttttt ttttttttt ttttttaaat aaggggcaag 120
tttccaaaga tcagtgtgga gtgctacaga aataattata ggagaggaaa tcataatcac 180
agaaggtnta atgcttgttt gaggctccgg aataagaact aaaaaaaaaa caaaaaacac 240
tggtttcatg cttacggggt acacactttg gngcatcccg tgaacacaaa ttttaatacc 300
aaacaatcct tgatgcttca cctggggctg ccaagcagtt tgtaaaacag aggaaaacat 360
ttagtgcagt ctgtattatc cttttccaac ttttctgttt gtgcaagttt ttgaanattc 420
attggccaaa caatgaacaa caaaggnttt ctgagagaag acaaggtgga cttttcattt 480
tgttagtaaa taccagtggc actgttgaac gaaacaaata cttttatctc agtctttcaa 540
atcagtatta atgtctgngt ttccttccac tgacagctct tcttctagtt tcactgaaaa 600
aagggtgtta gtatttttat cttggcactc tnttccaaat ccttnagcag ctcctcttct 660
ttatattctg ccacatngac ctntnaaccg gaattgncct ttantttgcc gnggngcttt 720
gaaaaatccc gtngttctta aaaacttgtt ga 752

<210> 2528
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 2528
ggggnnnnnn ttcttaatag tgcctngtct ttgcaggatc cctcgattcg aattcggcac 60
gaggcaggta ttatattatg aactactagc aattcgagag cctgcatcag tttggagaaa 120
gactatcaac ctggaataac ctacattgta gttcagaaga gacatcacac tcgattattt 180
tgtgctgata ggacagaaag ggttggaaga agtggcaata tcccagctgg aacaacagtt 240
gatacagaca ttacacaccc atatgagttc gatttttacc tctgtagcca tgctggaata 300
cagggtacca gtcgtccttc acactatcat gttttatggg atgataactg ctttactgca 360
gatgaacttc agctgctaac ttaccagctc tgccacactt acgtacgctg tacacgatct 420
gtttctatac ctgcaccagc gtattatgct cacctggtag catttagagc cagatatcat 480
cttgtggaca aagaacatga cagtgctgaa ggaagtcacg tttcaggaca aagcaatggg 540
gcgagatcca caagctcttg ccaaggcttg tacagattca ccaagatacc ttacgcacaa 600
tgtacttcgc ttaaatagtc caagtatatt ctctgagang aagtactgaa agatgaattg 660
acatacaacg tatgtttcca gtgaaagtca attgagtaag gacaccttca gccatacaga 720
aaccaacact gtgg 734

<210> 2529
<211> 682
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(682)
<223> n = A,T,C or G

<400> 2529
gnnctnntna gtgncatccg ttcnatcgga cnaggaaaaa caagnatact aggcttgtca 60
ggtttagccc natgtttgcn agctagctgc tggtgcagaa atacaagaca taaatattat 120
ttcgtagaca gttattattt ccttactgtg aatttagcag aatttataga agtcttttgg 180
gtagtaaagc tttggttaaa ttatttgttt ttaaaaaatc gcagttcatg aaacatttct 240
acttattaaa tacaatgtga atactatatc tattcttgct actgggtcat aattgttagc 300
cctctcccat gcctcttctc ctcccctgaa tataacatgc gtattagaag gtttctttgt 360
gttggatgct gctcatgaac catatgttaa gaggttgtca tattcatgta tttaagcccc 420
attgtgtgtt gtgatttcat gacttttata tctaaaaaaa ccatattgta gatgttcttt 480
agcttgaaac acgagtgctt tgaaattttc cctttacctt tctatttggg cattcagtaa 540
atctacacat ctgntttang ctctagttta aatagatgat gtgatgcatt tctgngatgg 600
nctggttgct gatttttttg gtaatggttt taatagtgaa atttctgggt catgcttacc 660
tggtgagttg gtaagtcgtt at 682

<210> 2530
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 2530
gggnnnttgt ctaatgcagg atccctcgat tcgaattcgg cacgagagtt tccatttagt 60
ttgattttaa aagctgcctt tntgaatatc taataccaat tataaaataa atatgtgtaa 120
gtaaaataaa atggtaactt gtttttttata agaggggaag ttggttggtt ttataaatta 180
aatgaacatt tatgcggncg gttatttttta cgtaaaaata gttgttatat tctaggtaac 240
agaaatttag aaacctattt ttctgtagaa gaaaggtgtt gctatctgct tttgatttct 300
cagatatttg cttctcctta gaatgctatg atcagatttt tattagaatg aagttttcta 360
aaggctttga ttggcattag cttcattact tatttgctta ggttaagatt agcccaatag 420
acatattatc tttatggacc attgcaaatt tttctaatat ctaaccattt ttaacctttt 480
atatatgaat aattaaggaa acattcaatt ataataaaat ttattcctgg cactatgtag 540
gcactcaata agtatttgtt aattgagtaa atgatcccag tagataggta catacaatat 600
acagggaatc tttttctact acgtgtgttt ttcctcaaaa tatttttta gttccacttc 660
atcatgaaaa tacttggaaa ctgacaccca agagaatcat gtttngggca cagt 714

<210> 2531
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2531
tggggttntt taganccagc tctgttcttt gcggatccct cgattcgaat tcggcacgag 60
aattttcctt atatgttctt tgacccttga attacttaga aatgtatttn ttaatttcta 120
aatacttaca ggtttaaaaa ttttgttttc aattactaat ttaattctgt ttcatcagaa 180

agcacgacca tcgtggcatt gaaacttgag ttatagccta ctatcatgat caatttaaaa 240
aatatatata tagggctggg tgcagtggtg cacatctgta atcccagtgc tttgggaggc 300
tgaggtgggt gaatcacctg aggtcaggag ttcaagacca gcctggtcaa catgacaaaa 360
ccccatccct acaaaaaatg taaaaattag ctaggtgtgg tgacacacac ctatcagtta 420
cttcaggggg ccgatgtggg agaatcgctt gatcttggga ggtcgaggct gcagtgagct 480
atgatcatgc cactgtctcc acctgggcaa caaagtaaga cactgtctca aaaggaaaaa 540
aanaataaaa tatgagaaag gttatgatac aatgttaaat gccaaaagta aaatgtaaaa 600
tgatagctag tgtttaatct caatcatgta aggaaaanaa aaaaaaaaac tcgagcctct 660
anaactatag ngagtcgtnt acgtagatnc ngacatgata ggatncatgn tgagtttgga 720
caacccaact tgaatgcagg 740

<210> 2532
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2532
ggnggtnttt taacccttgc tcttgtcttt gcggatccct cgattcgaaa aaaaattgtg 60
gtgattcaca cctgtaatca cagcactttg ggaagccgaa gcgggagggt cctttgaggc 120
caagagttca aggccagcct gggcagtata atgagaccct gtctctacaa aaaatttta 180
aaagtaaaga aattttaaga taactaaata ctacatagtc atatatttta aatatttatt 240
acataaaggt aaaccaaata gaagaggaaa taatgttatg ccctacttca tatgaccaaa 300
aactggaaga tagtgtctga aaatgaaaat gattgtattg ggaaggtaga attgtggcct 360
ttttttttt ttttctcag ttttcttctc attacatttt caatttagtc tttgtatata 420
gattttggtt tattggagaa tatataatgt gctctattaa tgtttaagtc ataaaaatat 480
aaatttcaag taatttaagc tccaatagtt atctaacctg ccttctaata aatgggaaat 540
aaatatttac tttttgtttt gataaacata tatttgttgg caactagcac atgattttaa 600
aagtatagtg gaactataca tttatgtctt aaaattaaaa ctataaagtt atgtgactgg 660
gaaaggaaaa ataattcatt caggattatc tgacatctta gtattatagt agtggtaata 720
ctacnttttn gggaaatgng tatcc 745

<210> 2533
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2533
gntnggnttt ttnanannca ggctacttgt cttttgcagg atccctcgat tcgaattcgg 60
cacgagaatc cttcttggga aacatgttat tgtcctcatt gtccagatta gaaaactgag 120
tgtaaagtaa gttaaattat agtcctaagg ttgaatgcta ataaagacag aatacaagtc 180
caatatattg gactcaaaag ccctcactta actatggtct ccatgggctt cccttggctc 240
tctctgcctt tttttatttt ttcttattgc ttgaggccct ttctggaagg taagtctgga 300
ttatctactt cacactgttt tagagaagac ttgtggtttc catttacccc ttactccctc 360
cgctccatgg cctttcaggg agaacactgt gggtatcatg ctgggtggcc tggagggtcc 420
aagtaacagg aatctanaag gatggaccag atgtgaacaa aagaaagcct gagtaggaca 480
caaaacagag aagtggggct gtaacatctc taagatatta cagcttgcta cttccactct 540

ctttgcaaat gtggtgaaac ccangctgga gtcataaaat aatagcatag gatcattaac 600
taaagtttgt ctagtgcttc cttgtgttca cacattatct cattgaacct ctgacgatgc 660
taggaggagg taaatagggt ttcctcttac cttgggtgaa ctgagtcttc tgactaagtc 720
tcaggtcctt tctaccattg ngctgcan 748

<210> 2534
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 2534
gngngngnnn nnttttttnaa nncgctcttg tcttttgcag gatccatcga ttcgaattcg 60
gcacgaggca gaagctgccc gtgggcacca cggccacact gtacttccgg gacctggggg 120
cccagatcag ctgggtgacg gtcttcctaa cagagtacgc ggggcccctt ttcatctacc 180
tgctcttcta cttccgagtg cccttcatct atggccacaa atatgacttt acgtccagtc 240
ggcatacagt gggtgcacct cgcctgcatc tgtcactcat tccactacat caagcacccg 300
gaataaagcc cgcctgcccc agtcggaaaa aaaaaaanna nnnnnnnnnn nnnnnaaaaa 360
aaaaaaaact cgagcctnta naactatagt gagtcgtatt acgtagatcc agacatgata 420
agatacattg atgagtttgg acaaaccaca ctagaatgca gtgaaaaaaa tgctttattt 480
gtgaaatttg ngatgctatt gctttatttg taaccattat aagctgcaat aaacaagtta 540
acaacaacaa ttgcattcat tttatgtttc aggttcangg ggaggtgtgg gaggtttttt 600
aattccggcc gcggggccaa tgcattgggc ccggnaccca gctttggtcc ctttantgag 660
ggttaattgc ccncttgggg gaaatcatgg gcataactgg ttcctgnngg aaaatggtat 720
ccggttanaa ttncacn 737

<210> 2535
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2535
agnaggnnnn nnnnnggnna gnnnnnnnnn gnnngnnttn taatcggnat ttctaatgct 60
nggctctngt tctttttgca gatcccatcg attcgaattc ggcacgagcc ttcccacctt 120
gtgagttctc ccagcagttc ctggattccc ctgccaaggc actggccaaa tctgaagaag 180
attacctggt catgatcatt gtccgtgggt ttggttttca gataggagtt aggtatgaga 240
ncaagaagag agaaaacttg ggctgaccct gttatagtgg ttatagtggt gtccctaaag 300
ggaggaaatg atttcancaa aactggttga acagcggatg aagatatgga attcaaagct 360
ctaatggacc tttttgaaga agaagttgtg gcttatgtgg gagttacatg ggcctctgat 420
ggaagaaact aatctgttaa gtatttgtgc attttactaa aatggcagct taaagttgtg 480
tatctgctat tgtgatgcca atgcccggtg ttttaagtgg aaaaaaaaat gacctctttg 540
atttgtgctg ngtacacaag aatttctggg aaaagtaaag aaaaaccctt ttttatggct 600
cacacactta agantagctg ctcttaaacg tgcgctcaca gttgaactgc tttggttaat 660
tctaaataaa tngttctttg aggaaaaaaa naaaaaaaaa ctcgacctnt anacctatgg 720
gagtcntatt accgtnatcc anacttataa nan 753

<210> 2536

<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 2536
gagnagnnnn nttttngaaa gccnnnnnna ggnagntttn nagaggnntt tgaagccctn 60
ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggcc acttgacaca 120
gtgagtggcc tcttaaatct ctcgttactc taccatgtct ggctgtgtgg tgtctttctc 180
ctgacgactt ggtatgtctc atggatactc ttcaaaatct atgccacaga ggctcatgtg 240
tttcctgttc aaccaccatt tgcagaaggg tcagatgagt gccttccaaa agtgttaaat 300
agcaatcctc cccccatcat aaagtattta gccttgcang acctgatgtt gctttctcaa 360
tattctcctt cacgaagaca agaagttttc agcctcagcc aaccaggtgg acatccccac 420
aattggacag ccatttcaag ggagtgtttg aatcttttaa atggtatgac tcagaaactg 480
attctctatc aagaagctgc tgctacgaat gggagagtgt cttcatctta cccagtggaa 540
cctaagaaaa ttaaattctc cagaagaaac tgcttttcag acaccaaaat ctagccagat 600
gcctcggcct tcaatgcccc cattagttaa aacattactg gtttcttcaa aattatctac 660
accctgatgt ttgtgaaccc cattttggga cccccatttg gcttntantg gtaatggaat 720
cggattggct tggaattttt ggntgtnaac acctggctat tgggcacccg caaaagtct 779

<210> 2537
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2537
gagnaggnnn nttttnngaa agccnnnnnn nnggnagntt tnaagagncc ttgaagccat 60
tgctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg gggcagtaaa 120
taataatagg gaggatagaa aagtcagcat ggcattccag atgagaaaac tgaagcaagt 180
taaactttct acatggtaac cgtgattatg tagttgatat acaaagtaat gactgtgggc 240
cttcaagaag aggtaaaata cattcattat attaacgagt gcatcttaga aagatttctt 300
tcaaaaagta gttgaagttt ttttgcttta aggagtaaat ctcaatcatc tggaaattta 360
acttctgtgg aatacctctt tacatcttaa aggaaatgtt aatgcattat attgaggtta 420
ttattgcaat ggaattttca aaaatgtgag tgtgctcttt ntgtttctag aatctataag 480
acacatatct ggtctaagta tagtgtctac taagacaatt tcacaatcca naaaatagtt 540
ggttagccaa ggatatcaag ttcaacccca gagactagcc aaagagggaa ggctatgaaa 600
taaaaagctt atagatggct agnctcatat ctnnggcttt atncctataa aaggatctca 660
ngaaatatgn aatcanaaat atnggtattt aatctcctcc ttttttggnc catngcctct 720
ttagggccaa nggtttttgg gngaaatcat tggtnggcca attnggttn 769

<210> 2538
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(754)
<223> n = A,T,C or G

<400> 2538
gnnnnnnnnn gnnnaggttn nnagnnnnnt ttctaatgcn aggctacttg ttctttttgc 60
aggatcccat cgattcggtg gtcctcactg aagaaagaaa cattcttcct aaaagacttt 120
ttttcctcag agttggagcc cacagcgtgg tcaggaaaga gaagtagcca ctggtggctc 180
ctggcatcct cctgctgggc agccccttct caaagtgtga ggggtcccct tgtgtacaag 240
caggaagctc tgagaaagtc aggtttgctc ctaccacagg ataattccga tgaacctgaa 300
aagcgggttt tggcttgtgt gcagggactc tggtggaaga aagggtgaca gcacctgcct 360
gggcatgaca caagttagga cccgtaccaa gaggccctgg aattgagggt gggggttgct 420
gtggactctt tctccctctt aggaaactct attgggtctc catctgtcac agaagcagta 480
aatgatgtag gggctgccag gtatagggtc ctgtggggat gctggaacat gccgangcag 540
gacgtgccag ccaccctctg cccatatgtg cacanggcca cagatgtgct tgtcggtagg 600
agagaccaag ctgtctgtgt gcccatgtct tgacacctga gacttcaggt tcaccccatc 660
ctggttctgc catttccatt tgcaaggtgg ctttcccttc cttttgggga ctctttaacg 720
cctttggnnc tgtttaaaaa aaaaaaaaaa aaaa 754

<210> 2539
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2539
gnnnnnnnnn ggnnngnnnn nnnngnnnnn tttnaatnga cnggctactt gttctttttg 60
cagggatccc atcgattcga gtgcatccat gcgttttcac ttgttcttag gctacttcat 120
ccaataatat atttgagtag ttctgaacag gaacacaagt aaggagaatt ttttttttt 180
tttctgatac agggtcttgc tgtgtcaccc aggatggagt gcagtggtgt gatcttggtt 240
cactgaaacc tcaacttctg tggctcaagc catcctcccg ctcaagcctc cgagtagctg 300
ggactacagg cttgcaccac cacgcctggc taatttttgt atttttagta gagatgggat 360
tttgccacgt tggccaggct ggttttgaac tcctggcctc aagtgatcca cctgccttgg 420
cctcccaaag tgctgggatg acaggtgtga gccactgggc ccacgtgagc agcatatttt 480
taaaagctcc cctgatgatt ctagtggacg agaaccacca gtctatgtaa ttatttgtct 540
gtttagtgtc tgtctgtccc gaaggtttag aagttacaca aggggaggga ctgtaaatat 600
ttgttgaatg aaaaatgaat gcatgggaat gaggatattt ctttgcaata ctgattttat 660
ttccttatac acccataaat gggaatgctg gatcatatgg agctctattt ttaatgtttt 720
gaggaccctn catactgctt cc 742

<210> 2540
<211> 892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(892)
<223> n = A,T,C or G

<400> 2540
gctagttnga agaggtgttt ctaangnntn ggaatcgaca tctnnnnagg cngnccntgc 60
gattcgcttt gctctctcca ttccaagttg ttctctgttc tagaaagcng atgnngggnt 120

acatctactg tttttgccta aacagaatcc ctttntcctt tttttgttaa aaggctcatn 180
cctaatatta cattgctctg gaacgantga caataccana actcagcacc ntgatcggac 240
cgggacaatc agattatcta attcctcagc aaacggagat cgatccgaaa agtggaaata 300
tganctcntn ctttgtgntg gcatatggac cctgagagaa agaaacttta atcttttact 360
cttggactgc aatnaagtnt agctgcctaa aaatcnnttt cntgacactt ngnaggtttg 420
tccacaatcg ggngaaatta nngggtnnga cntaancact ggatgaaaaa aaatnccgnt 480
tanttntatt ncnnttccan ncttntnaaa tanananttt ntcanccttn nntaatacta 540
ttanntatat ntnttnnncc cnnatnnncc ttcttnctcc tacnncnntn cnatntnnnn 600
nnangntcnn cnannnnttc tnttatttct annatatntc ntancnttna ctaaaacctc 660
cnctcgtnna nattncnnta taatattntc tctaganntt ntnntntntt gnnnncttaaa 720
anctcntcta tccctantat nantnattct taccatnaaa tacactanaa gtnntntcac 780
gagacncgnt atgttantnc anactataat cgcttncatn tanntatatn taaaantgct 840
atncagnnag nngntnttat atntttanct ngnnaggnta tcctcnatan cc 892

<210> 2541
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2541
gnanaggtct atgtggctct ngttagttgt gcaggatccc tcgattcgaa ttcggcacga 60
ggatctactg ccttagcaaa tgtcatatat atgattacaa gattattaac tatagtcacc 120
atgctgtacc ttggaaaaga aaacctactt ttcttgctta agtaaaactt ttacccttt 180
caaggactgg gggaccttga gtatgtgcag attttggtac acgcangggg tcctagcacc 240
aatctcctgc gtgtaccaag ggatgaccgt gtgtatagaa aatcacatgt ttattaccca 300
tgtatttgtt gttggatgct tagtctgttt ccatatcttt ctattgtaaa tagtgccgca 360
gtntacatga gtgtgcagat aactnttaac aatactgatt tcaatccctt tgtggagttg 420
ctggatcgta ttaattntgg ggggaacctn cgtctgtttn ccataatggc tgtaccaatt 480
tacattccca ccaacantgt acaaagatgn ccatttttnc atgtctcact agcactcggg 540
tgtnttttttg gtaatagccc ttctaacagg tntcaggtga tacccttatc naggttttga 600
gtcaaatttt ccanatgatt taagaagttg acaantnttc atatcctgtc aancgtnagc 660
gatgnttttt ttttatagnn agacaggntt tnntctgttg tgcagantgg tttaagatgg 720
tgcgancatg gntcanttnn tcctttncc 749

<210> 2542
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 2542
gnnagnnnnn nngngnnntt tnagatacag ctcttgttct ttttgcagga tcccatcgat 60
tcgatcagta tgaactctta aaacatgcag aagcaactct aggaagtggg aatctgagac 120
aagctgttat gttgcctgag ggagaggatc tcaatgaatg gattgctgtg aacactgtgg 180
atttctttaa ccagatcaac atgttatatg gaactattac agaattctgc actgaagcaa 240
gctgtcccag tcatgtctgc aggtcccgag atatgaatat cactgggcag atggtctaat 300
attaaaaagc caatcaaatg ttctgcacca aaatacatng actatttgat gacttgngtt 360

caagatcagc ttgatgatga aactcttttt ncttctaaga ttggtgtncc atttnccana 420
aactttatgt ctgtggcaaa gactatncta aagcgtctgt tcanggttta tgcccatatt 480
tatcaccagc actttgattc tgtgatgcaa ctgcaanagg aggcccacct taacacctcc 540
tttaagcact ttattttctt tggtcaggag tttaatctga ttgataggcg tgaactggca 600
cctcttcaag aattaataga gaaacttgga tcaaaagaca gataaatggt tcttcttaga 660
cacagttccc ccttgcttca tctattgcta gaactatctc attgctatct ggtataacta 720
gt 722

<210> 2543
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 2543
gnnngnnnnn nngnnggatt nnancgantt tgcnaatnna nagctacttg ttctttttgc 60
aggatcccat cgattcgaat tcggcacgag gcggttgcgg ctggacacgg gaccccagag 120
cctgtctggg aagtcgacac cccagccacc atcaggcaag acaacaccca acagcggcga 180
cgtgcaggtg actgaggatg ccgtgcgccg ctacctgaca cggaagccca tgaccactaa 240
ggacctgctg aaaaagttcc agaccaagaa gacagggctg agcagcgagc agacagtgaa 300
cgtgttggcc cagatcctca agcgactcaa ccccgagcgc aagatgatca acgacaaaat 360
gcacttctcc ctcaaggagt gaggcttggt ccaatacatg gctctgcccc ccagaactta 420
aggctctact gccccttcgc catcctagan tgaggctctg tccaatacat ggctctgcct 480
ccagaacttc agctctcagt gacccttcga catcctgctt gctcctgact tccaaggccc 540
cgtagttagc aattctggaa aagttaagcc atctncttcc tctggncctt tccttctggg 600
aatcttcaaa atgcctgtta nggnccttcn ttattggccc tccntccttc cttggcttcg 660
ggccttccnt taaaacttga ccaaaggggc cttgttgctt ggcccaactg gggtaaactt 720
ttttacaagg ttctttccct tttccacttt cccctnaaag tntt 764

<210> 2544
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 2544
gnngnnnnnt tttnnaagac cangcctctn gnnctttttg gcangcagtn cntaganctt 60
ngtgcaggat cccatcgatt cggaaaacat gagacataga aatcattgag attcatcaag 120
aaaatgttta attataatga gcatgaagtt agtaaaaggt ggacatttga agaaggtatt 180
aaaagacctt actttcatgt gaaacctttg gaaaaggcac aactaaaaaa ctggaaagaa 240
tacttagaat ttgaaattga aaatgggact catgaacgag ttgtggttct ctttgaaaga 300
tgtgtcatat catgtgccct ctatgaggag ttttggatta agtatgccaa gtacatggaa 360
aaccatagca ttgaaggagt gaggcatgtc ttcagcagag cttgtactat acatctccca 420
aagaaaccca tggtgcatat gctttgggca gcttttgagg aacagcaggg taatattaat 480
gaagccagga atatcttgaa aacatttgaa gaatgtgttc taggattggc aatggttcgt 540
ttacgaagag taagtttaga acgacggcat ggaaatctgg aagaactgaa catttgcttc 600
aggatgccat taagaatgcc aaatcaaata atgaatcttc attttatgct gtcaactacc 660
cggcatcttt tcaaaatnca gaaaaacctt ncaaaatcaa gaaangngct ttttggaagc 720

aatcgaaaga gncaaggaga acacaagntn tncctcaatt tact 764

<210> 2545
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 2545
gnagnnnnnn ttttnnaang tccngncnnn gnnngnnttt nnagagnnnt ttnaancnnc 60
ntgttgcagg atcccatcga ttcgaattcg gcacgagaac atctcctctt gtcattccta 120
ggacatagac ggttagggaa actctcatct ttccttcacc acctcatgag tctaaaaaca 180
atgataaacc cagggaagct tgctgaaaag catcctccat ttggttatng ctctttgtct 240
aggaaaatca gnactcagct gtgaatngtg gaccaagtgg tgcagaactc attactttga 300
acaatgcctc ctcggcctgg gaagcatgtn ctctcttcta ctagcagggg cttattccag 360
gctggctttg gtcacaagga aaatcattta gacacagttc agtggtttct tattctgtct 420
cctccttacc ctgccctgca cccctgtcct taagagggaa aaggtggnag gtgctgtctg 480
gtatcattgc tgcctcgcca gtaganggtt gcccgctgtg caagggtaac tgcccgcctg 540
ctcccttcct gacctcccct ggaccccgaa gatcacttac ctctggtcat tcangccntt 600
gggggtacaa tcctggataa agtcgngtca aaaactggcc aaatttcaag gacttgaaaa 660
tgnggttttt taaaaaaacc aaatccctta tnaacntcca ctttggnacc tttaanattt 720
taaaaactgg gggnaaaaat ggngaanatt cctttgggac ccacttttt taaattnaat 780
ttaagccctt naatggaaan 800

<210> 2546
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G

<400> 2546
gnagnnnnnt tttnngaaag cnnnnnnnnn gnnngntttt atagatcant tnacttgctc 60
tttttgcagg gatcccatcg attcgaattc ggcacgagca cattttcctg ttttcttcca 120
agccctccac agtgttccaa cctctgccgg ttacccattt ccaaagtcac ttccacattt 180
tcgggtatcc ttatagcagc accccactct accagtccaa tttactgtat taagtccatt 240
ctcatgctgc tataaagaac tgctcaagac ttgggtaaat tattaaaggg aaggagggtt 300
taaattgacc cacagttcct cagggttcgc aagggcctca ggaaacctac aattatggtg 360
gaaggggggaa gcaaatgccc tacttcacat ggtggcagga aggagaagaa tgagaaccaa 420
atgagggaga agccccttat aaaaccatca gatcttgtga gaacttacta tcatgagaat 480
agcatggggg aaactgccct gtgattcaat tacttccact aggtcactcc accatacatg 540
gagattatag gaactacaat ttaggatgag aatttgggtg gggaacacag nccaaaccat 600
atcaaggtnt taaccagcag gaatttaacc caagcctgag ggaaaagact tttcaagaag 660
cttcaaaaga ctgggttctt nccaaaaatt ccaggttagg acccaaaaaa tttaaannnn 720
annnnnnaaa aaaaaaaaac nttggaagcc ccttttaga aaacttttt ngtggaagtt 780
cccnnanttt acccgttnnn aattcccnag naccccttgga attangggaa tncccaattt 840
gggttngnaa gn 852

<210> 2547

<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G

<400> 2547
gnagnnnnnt tttnngaaag cnnnnnnnnn gnnngntttt atagatcant tnacttgctc 60
tttttgcagg gatcccatcg attcgaattc ggcacgagca cattttcctg ttttcttcca 120
agccctccac agtgttccaa cctctgccgg ttacccattt ccaaagtcac ttccacattt 180
tcgggtatcc ttatagcagc accccactct accagtccaa tttactgtat taagtccatt 240
ctcatgctgc tataaagaac tgctcaagac ttgggtaaat tattaaaggg aaggagggtt 300
taaattgacc cacagttcct cagggttcgc aagggcctca ggaaacctac aattatggtg 360
gaaggggaa gcaaatgccc tacttcacat ggtggcagga aggagaagaa tgagaaccaa 420
atgagggaga agccccttat aaaaccatca gatcttgtga gaacttacta tcatgagaat 480
agcatggggg aaactgccct gtgattcaat tacttccact aggtcactcc accatacatg 540
gagattatag gaactacaat ttaggatgag aatttgggtg gggaacacag nccaaaccat 600
atcaaggtnt taaccagcag gaatttaacc caagcctgag ggaaaagact tttcaagaag 660
cttcaaaaga ctgggttctt nccaaaaatt ccaggttagg acccaaaaaa tttaaannnn 720
annnnnnaaa aaaaaaaaac nttggaagcc ccttttaga aaacttttt ngtggaagtt 780
cccnnanttt acccgttnnn aattcccnag naccccttgga attangggaa tncccaattt 840
gggttngnaa gn 852

<210> 2548
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(879)
<223> n = A,T,C or G

<400> 2548
gngngnnnnn ttnnnnnagn nnnnnnngnn nggtttngat cagctcttgt cttttgcagg 60
atcccatcga ttcgaattcg gcacgaggtt gtattggaaa gcagtagtgt ggacgaattg 120
cgagagaact tagtggaaat cagtgggatt cctttggatg atattgaatt tgctaagggt 180
agaggancat ttccctgtgg atattctggt ccttngntnt tcatccanga atttaanaac 240
tgggaattcc taaaagtttt cttacccctt gaaatggtcn tgggcccctc tttttaataa 300
tcctggtgga atggaatggg ttgcccggtt ccantaattt tttaattang ggggatttaa 360
aaaaccaaga aangnaaatt ttaaatnggg aaaatttgga accaggaatg gaagcccaaa 420
angaaaaatt ggaaacctgg gattgnaaaa aaaanggaaa aagnccagtt ccgaactttc 480
ccagaaaaga acntggggac canttcgggg gttaaccant accttcaacc ntcggttaaa 540
aggaggaaaa ggccacctta aaaaaantat tantcttggg attggaagcc accccaaant 600
taaaggaatc tggacntcaa ggactggacc tctggatagg tggtagccat tttnccctgg 660
ggggaagttt ttggttttaa ttagatggnt cacttccact gggtagtgcc attttggncc 720
ggacatggtt ggggtaccca tgacccacac tgatggactg cctacccatc agaactcatg 780
cccaatggcc ctggtttgac tcggatcatg ttggcctata gtcaaatgtc tgtaagtgaa 840
anggatgtgc aaaaataaaa aaaccccaaa aagctccna 879

<210> 2549
<211> 797
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 2549
attttnnaan ctttatnnca ttttgctact tgttcttttt gcaggatccc atcgattcgc 60
acactccagg ctgagaaaga gtaattagga ggcctgagga ggggccgagg aaaggctgtt 120
ggggtgtgct ggggttggta cccgagcgcc ttcccctcac ctcaaccana gaagagcatn 180
cggttgcttt ttaaagcttt tancctgccc tagcaaggac aaagcatgtt anattagaga 240
tgcttctgct gatcgcangg gttcttattt gaaaacatct atnatggggt ggggtgggag 300
gagacaggtt gtggttatgc angaaaatct tgtcctaaaa atatatgact tnggggggtaa 360
ggggtgggat agccaagcaa aatcactnat tattntaaaa tgaacatatg tnttttnatt 420
aactttnagt taaatacaga ttttacaact aggtcagcat angcctnaat ctatatagag 480
ggctaactca ggcattgtct ngtttatttg gtagactgga ttcaaaacaa cctgtcctgt 540
tttgtcagnt cccagcttnt tcntttagaa taaattanac caaaagnaac aaactgtgct 600
cgctcttgta tacccgcaga atgaactact gttgtaaaac tggatttttt cattatacta 660
ngttncgaaa agcnagatgc ttggtanatg tacaatacca ngatcctttt taaattgaat 720
ggggtgcatt taaaaatcct cncttaacat ttctaagaaa gaattgtttc aataaaataa 780
ntggaatctt canangg 797

<210> 2550
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 2550
ggnagnnnnn nngggnnttt cnacgtgaan nccttgttct ttttgnagga tcccatcgat 60
tcgcacagat ccaggaaaaa tcaaacgtat tagaggaatg gcgtactctg tacgtgtgtc 120
acctcagatg gcgaaccgga ttgtggattc tgcaaggagc atcctcaaca agttcatacc 180
tgatatctat atttacacag atnacatgaa aggagtcaac tctgggaagt cnnnggggctt 240
tgggttgtca ctggttgctg agaccaccan tggcaccttc tcagngctga actgnggctt 300
caaccccccag ggccagggan cancagtact tncanangac cttgncntga actgtgcccg 360
gctgctgntg gatgaaatct acaggggtgg atgcgtnnac tnnaccancc aangcctggc 420
gctactactc atgacccttg nacagacgat gtntacaaag tcctgctagg ccctntntct 480
cctacacgat agaattttgc ggcatttgaa gagctnttnc cacattatgt ttaaaattga 540
aaccaagcca tgtngtgaan aactcaaggt ggggataaaa gtgctgatga ccctgtgtgg 600
cattggnttc tncaacctta gcaagaccct caaagtgata accatnacaa agataaggnc 660
ccattgccta cngacaaagc aanagcttgc canggnccca atggggacca agtncaattg 720
gttt 724

<210> 2551
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)

<223> n = A,T,C or G

<400> 2551
tatatataca gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagctg 60
ggtctcaggc ctttgaactc aaactggaac tacatcactg gcgctcctgg tctccagctt 120
gctgactgca gaccttgaaa cttctcgggc tccattaacc tcttttatat atagagagag 180
atacatacac acacacacac acaaacatac acacacacac acattggttg tatatctgga 240
gaatcctgat taatataccc gataaattca aaacaaaaca aaacttgaaa aaaaaatttt 300
tcaggtgaat atttgttttt tagcatctga gtttcagtcc aaacagggaa ggaaagagag 360
gaagtgtctt caaaaaatat agacaccccc caaaaatata ttaaatcaat aataatttag 420
atccaagatg ttattgatgg ttggagtata gaccactacc catacaaaaa gcactgtagg 480
aaatggagtt cttcagagag tagaattgtg gttccaangg ctaggcagga aggcagattg 540
ggaagatgtg gcaaaggatt caaaatttca gttagagang agttaagttt gaagagctct 600
attataccaa aatggtggac ctatgggtta ataaccaatg ganttaatat ncctcgaaat 660
attgcttgaa aagtaggttt tnaagtattc ttggccccaa antaaaaaaa aactggggtc 720
t 721

<210> 2552
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 2552
agngttttta nacccgctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gaaacaatat aactcaaatg cctttctaca ggactacaaa ctgtctgtat caggttatgg 120
ggttaaatca taatttctgg atcatgatct taaaccttta attggttcca tttctacttt 180
actctttact aacaagtatc ctgatggcct gaaaatccat gttgaaattt gaagtttgaa 240
ttttccagat caaatatgaa atttattttc atttttaaa gtacaaaata tcagttgtat 300
aatcatggta aaacataaaa ttttgctata aaagattttt aaaggctatt tgattaaaca 360
tttatttact taaactcttt gctagaattt tttttagaat tcagcatcgg aggaggaatg 420
tgacataata atgatcgaaa gccgaaagtt taaaagttgt gatgccctca catggttgga 480
gggttattct agcttctaan ggactgaatg ttgtccacaa gaagtgtcat cagggtcata 540
aattggtaag gacttaaatg gcttaagaat tttatggtat tatacctgaa ggttattggn 600
atttgaggaa tgaaatattt aatggaacca aaaatggagn ccccatttgg ggttaaagaa 660
gttttaggta ntttaaaatt tttaaggttt aaaaaccttn gggaaatttt tnaaaatacc 720
tttgggaagt tattgttaaa gccctttttc gaaaagtcct cntttgnang gccttgaaaa 780
g 781

<210> 2553
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2553
gtngnggntt aatancagct cttgttggtg gggaggatcc cttgattcgn attcggcacg 60
aggattttcg aaactcttca gctacttgcc ctttttttatc tgaaaccatc ataccttctg 120

aaagaaaaaa gcatatcttc attgacataa cagaagtgag atggcccagt cttgatacag 180
atggtaccat gatatatatg gagagtggca ttgtgaagat aacatcttta gatggtcatg 240
catacctctg cctgcccaga tctcagcatg aatttacagt acatttttg tgtaaagtta 300
gccagaagtc agactcatct gcagngttgt cagaaacaaa taatanagcc ccaaaagata 360
aactagttga aaaaactggc aaaatctgta tacgtggaaa tttaccagga cagagactga 420
agaataaaga aaatgagttt cattgccaga tcatgaaatc caaagaaact ttaaagaaga 480
tgagttgtgt aaatggaact gaagggaggg aagagctgcc ttcgcctggt acaaagcaca 540
catgtgtata cacatgggtc aancagtgct ggnctgtggc tgcctgtcca gaggaatgga 600
aatatccttt ggctttagca cttcattttn taataaaatc ancantatgt cttnaaaaaa 660
naatttaaaa naaaaacttn ancctntana actttangtg ngtcgtttta cntanatnca 720
ccttgataag accattgatg agtttggaca acccn 755

<210> 2554
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2554
nnngngnttn anancagctc ttgttggtng ggcggatccc tcgattcgct catttgtttc 60
attcacattc ctcacgtgca acaacataat tatattttaa gaaaatgtaa ctttgttaca 120
tcaaaatatg ttgtctagta aaaagttgat attcagtaga acaaggatca tgtaaataaa 180
catctatttc acatgtaccc aaaagcattt aaaaagcaga atccagggcc cagagcatga 240
gccagggagg aggatgtttt tcttcttttc tctatttttc cctaaattgt gcaaacatag 300
gtgagtctct taacctttct gtgcctcagt ttttctacct ctaaaggggt gggatggttc 360
ttcaaattgt ttctaaaaca ccggcacttt cagcagtgtt ctggtggcct gagatgagag 420
caccgtgttc agaagtgcct gggagtggca cagtggaaac tccgcttgca cggaccatgg 480
agtctgctca ggaccatgct gtaggacaca cagcctcatg cgctgagaaa gcaaaggaag 540
tgctgggtgt aaagtttgca tgattccatg aagctttagt tttccttttt ttggtttaaa 600
agaaagggtt ttatatgttc tattgtaaaa tatggaaatt aaacagggac ttcagaaagc 660
cgacagaaag atcaccttct gatggtgtga tgtgctcctg acattcnggc cgaggctgta 720
ttctgaaaaa gattaatggn ctgtgaaan 749

<210> 2555
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2555
gnagagggtt nttcnnatan nctgctggtg gncangatcc cattganncg ctttgccatt 60
gtggctgtgc gagctcagcc tcctggaaac ccgccctgag cttggttaac agcattcact 120
ccaggtttag cccagctcca ggttatcgca ggcaggactc ccgagaacag gttcatgttt 180
gctttttggg aggtgctgcg ctaaagtgga aaaccaccct gggccgagtg ggacctcccc 240
agctgggcgg ctgttaacca gccaggatgt ctgaccctga gaagtcaccg tgcactcttg 300
ggactcattc ttctcatcag caggatgggg tgatggagcg ggccttactg ggtgctgggg 360
atgatataaa gaggtggcgt gtgcatgtgt gtgtgtctgt gtgtgggcga acatgtttgg 420
taagtgatag gctctgcaca cgtgcacggc accatcatgg ttccctccct gcagcacttg 480

gcacgcagtg ggggctcaaa gcacaggccg actgatggcc tggggttgca gccctgctcc 540
gtgtgtccct gggcacttgc ttactgacca ccccacaggt gaacacgggc aggtgggtgt 600
ttggaggtgt gaggctgaag aaggtctgga tcttgcaant cttgcncctg gatagttatg 660
gggtctggaa ggggctttta ttgcgcctgg tgctttctgc taaggccaaa tttgggcttg 720
cctgaccttn gggttttggg gccctcttan 750

<210> 2556
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2556
ntctatagca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgaggcca 60
cggcgctcgg cctgaatttt ttttaatact taatttagat caataacttc gactggtact 120
gaaatttgca ctcactttca gcttacagtt tgggtaggac tgctagaccc agttcttttg 180
tcatctcatt cttagagagc tcttgaaaac caaagtattt aaaaccctgc aagtttctgt 240
gcagatgagt gcaaatttcc acccagcatt ggttcctgag taattagagg aaggaagcca 300
tgcaaaagct gctattgccc aggctccaga aaaacatcat gtaaggtttg attccatact 360
aattgttcaa agtgtaaaag aaagctgact gtggcagttt ttacctcctt ttctttttt 420
tccttttaaa aataatccag agacattaag cccaacagtt tctctttgct tttttccctc 480
tctagcacat tttcttgatg agtctaaggt gtgacctcta ctgaaatggc tcccacccac 540
cttctnctat ggaagtggat ccccagcccc atctncttgg acctcgtggc tgtgtttaga 600
aaattagcat cagcctaagc caggggcatc agcatggagc cccctggtca ttggctgatt 660
gccaccctnt ntctggtgga agcccgacta gggantggtn ggangtcaac ctaaagttaa 720
ngcaacctga tgaatggtta ttgactn 747

<210> 2557
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2557
gngnnnnnnn nnnttnnnag nnnnnnnnnn gnnnnnnnnn nngnnnnnnn nnnnnnnnnn 60
ntttttnnat acagctattg ttctttttgc ngatcccatc gattcggcca catcgggggc 120
accaccctcc atgcctttgc aggcatcggc tcaggccagg ctcctctagc ccagtgtgtg 180
gccctggccc aaaggccagg cgtgcggcag ggctggctga actgccagcg gttggtcatt 240
gacgagatct caatggtgga ggcagacctg tttgccagtg gccaggccta tgtggccctt 300
tctcgggccc gcagcctgca gggcctacgt gtgctggact ttgaccccat ggcggttcgc 360
tgtgaccccc gtgtgctgca cttctatgcc accctgcggc ggggcaggag cctcagtctg 420
gagtccccag atgatgatga ggcagcctca gaccaggaga acatggaccc aatcctctga 480
gcctcaccca caaagaggag acaaagggtg gcctgtggcc tncccgtctn ctgctcctag 540
tggcccaagg ccccagggaa taactggagt aggcaggcaa gtgtcccctt ctgnattttt 600
tanggactct aaccttctgc agggttaaan ggagagtact ttaaacccat atccactgtg 660
cttnatttct ctnctttgcc tggtaactgc tgtagggtag aagtaccttt ctgtgccagt 720
ganaatgacc tgtgtggtac tgatgtaaaa n 751

<210> 2558
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2558
gnngnnnnnt ttnnaagacc nnnnnngnng nnttnagnnn nnntnnnnnn cnntggctct 60
ggttcttttt gcaggatccc atcgattcgg gaaaattgta attctgaagt ctgggtgaac 120
ctagcttgca cctacttctt tcttgggatg tataaacaag ctgaagcagc tggatttaaa 180
gcttcaaaaa gccgactcca aaaccgcctc ctcttccact tggctcacaa gtttaatgat 240
gagaaaaaat tgatgagctt tcatcaaaat cttcaggatg tcacagaaga tcaactcagt 300
ttggctcaat ccactatatg cgatctcact accaagaagc tatagatata tataagcgaa 360
tactgctaga taacagggaa taccttgccc ttaatgttta tgtggccctc tgctactaca 420
agttggatta ctatgatgtg tctcaagaag ttttggctgt ttaccttcag caaattcctg 480
atagtaccat cgcactcaat cttaaagcct gtaaccattt tcgcctttac aatggcagag 540
canctgaggt attgatggaa gtgtgttttt aatgtacttc attccaattt gaattacttt 600
atctttccaa gttattcatg aaactctggt atctgtactc ttgatnatat ccctttatca 660
ttgncactgn gatctataag acctaattat atgttatcag gtattctnaa aagaatgttg 720
acttctgaat taaaaaaaaa aaaaaaaana a 751

<210> 2559
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2559
gnagnnnnnn nnnnggnagn nnnnnnnnng nnngnnnnnn nagagnnnnt tnnnnnccnt 60
ttgtaannnn acagctactt gttctttttg caggatccca tcgattcggt gatttacttt 120
ctcattcaaa atacatattg gatattgtat ctaattttgt attggtaatt ttgggttatg 180
aaaccccaga tttgaagccc caaattgtat agggttcaat gcccataaaa cccagatctg 240
cccctgctta gaggccggcc cctctaggag acagcatgtg gggccaccca gagatgcagg 300
actcttctgt tctgccctat cgcagcagag aggccatccc tggagctgga aggtgcagac 360
tgggaattgc tccttctctg aattgctagc tcctgctaat gcctgcattg ctgctgcaaa 420
ggatattcag aaaaagttgc tcgtcagaaa aagaattcat gctagctctg gccctgctgc 480
tgatgcattg tgtgaaaccc ttgagtgact tcacctcttg gaactcagtt ttcccatttg 540
taaagtgata tcaatacttc cggtgtgggc tcangtttgg gccctgtgaa ttgtaaagct 600
ctatgccatg ggaggatgta tgattataag ttgngttgct attacttgna ttgctaaaat 660
cttgctatta ttgaaaaatg cccaaacctt acatttcagt gactaaagag caaaaccagt 720
gttcactctg acatagnttt tttaaatttt cattcattca ctcat 765

<210> 2560
<211> 763
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 2560
gnngnnnnnn ttnngnaann ccnnnnnngn nagnnnnnna agnnnntttn aannnnnttt 60
ncnaatgcna ggctcttgtt ctttttgcag gntcccatcg attcgaattc ggcacgaggt 120
agagacgggg tttcaccatg ttggccagga tggtctcaat ctcttgacct cgtgatctgc 180
ctgccttggc ctcccaaagt gctgggatta caggtgtgag ccaccacgcc tggccggctt 240
atttttatcc acagtaaatc ttcagcaact cattgtctcc accagatagt atttttctgt 300
aaatgaaatg ctgacttcgc ctcttcctgc tgtatgctca tccctgcact gagcacagat 360
atgacaagca gtagccatgg gggangtggg tgacaaagat aggaccccgg gagggggcgc 420
aggtacatgc tagtttcaat taccacagta ttctagagac nggttgcaat gacaaggggg 480
gcaaatgaaa tcaatgcaag atttcttaat aatgggcaga cagaaaaatg taaaaccaca 540
caaaacggac tgctgataat attttaaaat atacttattt gncttctttt tgcattgtga 600
aaaaacaaaa taaattttgt gtgataattt tgatgatgaa aggtggaaag ttctacctan 660
atttgaatga ntgtttttt aangggaatg aaaatgtcat ggtgctnaac cttgccaatt 720
agaagaatca ttgaaaatgc tgaaaaattt nacagtcttn tta 763

<210> 2561
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 2561
tatatataca agctacttgt tctttttgca ggatcccatc gattcgctcc agcctggggc 60
gacagagcaa gactctgtct caaatagata aataaataaa aatacaaaaa aaagaaactc 120
aaggtacagt ggtgggagtc aaaaaagcat aagggagaaa accaagactg aaaactgtta 180
ttgagcttag tctgtgccta gttcagtccc tagcatttta caagttttct ctgagttaac 240
aaacttgtgg gggaaactga ggctttcaga tgttgaataa cttgtgtaag ttgtagagca 300
ggttcttttc catagttccg catttttac ctgcaataca gcaatgcggt tgcccaggcc 360
cctcccagga gagttgcagc ttccccggag gccacacttc ttcaacacct tttgcctaaa 420
ggctcttttt ccctaaaggc tcaactcatc ccttgcaaaa tacccaaagc caaatgagtc 480
taganggtaa accagccatg taggatgtgg acctttacaa ctgaaggaaa ctgaggtatt 540
tcaatatgat gaaatactct gtagtcatta aaatgataga tgtgaatgtg tagaaatatg 600
aaaaagtttt gggaaaaagt tgcacatatc tgaagaaacc aattgaaagc aatgggcatt 660
tattaattta ttttggttnt ggtttttttt tgagaacaag cccnct 706

<210> 2562
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2562
gnaagnnnnn nnnngnnnng nnnnnnagag gnnnttgaaa ncnnttgcna atgcnaggct 60
acttgttctt tttgcaggat cccatcgatt cgctgaataa caacctaact actacccctc 120

aacctcaccc ccaccccagg aaaagtaagt ctttttctaa cgatccacca gattagggtt 180
acatttaaca gtaactagaa aggttaattn taaccttaat cagaaagatt aatttctgtc 240
ctttcagtct tctttctgtg ctcataaata agcattgntt cttttaatca acctgggcag 300
tatctttctc attttaacag ttgtctagag ctcagttgtc ccagcattta tttcactggt 360
ccctgatgga tggagggtgg tgttgcttca gtgtttgggc agtgcagacg atgttgagat 420
tcacattcgg tctcgtctct ttgttgttat aggataagtt ctcaaaggtg ggattcctag 480
atccaaggct tctgacacac acactgctga ttgaacctca gtggcagtgt ttgagtgcac 540
ctgttcctca ctcccatttc acctttattc acatgttgat tcactcagca tttaatgagt 600
gcctattatg tgccaggcct tccttcagtg ctggggccct tcancaatca aggcagataa 660
agattgctgt tgtgagccat gtgtggtagt gtgcacctgt agtcttagct acttgggaag 720
ctgaagtggg aggattgcgt gatccccgg 749

<210> 2563
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(701)
<223> n = A,T,C or G

<400> 2563
aaatngctag gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggg 60
ggccatagcc tctattcctg cccagctgtg gatcctcagc ttgccatgtt aggtacactg 120
gaccagcttg tggagccata gcccaggagc tcagggacat tgagtgcagg tttcttactc 180
ctacctgctg gccctgtggc tgtccctggt ggccagccca gctgcagcaa aacctacaaa 240
gcctccagcc atggtaggcg tcttggacct gccccagtca gctggggctt gggctgctag 300
gggttttggc acacgtccat gtttggcgga gggtgtgcct tcaaaccctg aagggcctaa 360
tttcaccatt ctttctggct gcccaaggga acttccctgc ttttctccct tgctgttggc 420
tggataaaac tggcaatcag aaagtcaaga gctacagctg atggtcatgg tgttcccaga 480
gagtcaggaa tatccatgga agctgagcag atgccctgtt gctctcccat ctcagctctt 540
tgattctgag accatcatcc gctcattgac ctttgatcac aaaactttga acttctgaat 600
tctgctccaa atccctngct ccttttttncc ctatccctgt gccaaccagg aagtttcttc 660
tatttncang cctcctggca naagcaggct tccggttgtt t 701

<210> 2564
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(697)
<223> n = A,T,C or G

<400> 2564
aaatagctag ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgagattaa 60
attcattagt gtgaaagagg tgggagtgag gttttctggc ctgaagcagt ctgcactgaa 120
aggtacccaa gtggcctgaa acagtgtagg gaaagacctg ggaaacactg gaccaaaaaa 180
gcctgatctc atggagacct gcatggccct gttagagatg gcgtagaagt gaaagtctta 240
aagggagcat tagagatcct tttaatacac gactgagtgc cagcttattt gtgatgcccc 300
ttcccagacc aggttaggat tcctgggaag gcccgcggat tccggccctg gaagaggcag 360
gatcctggag cagttttgtg aggcttttgt gctcccatac gccccctggt ggtgagtgta 420
aagaagactt tgcctctcac aactacatgt atgtgtggca tttttgttag agatgagaaa 480
aggattgaga aggataaact ggaatcctgg taagaacctt tatgccaccc gacacctgct 540

gtaattgggg tgcatgagct atggagtcag atagttgttg gganggggan gacaagaagt 600
ctattgtttg gactgtgttt gctcacaatc accacaaaat aaaatgtnga aaatgaaaaa 660
aaaaannnaa aaaaaaaact cgagccttta aactttt 697

<210> 2565
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2565
gnnnnnnnnn nnnngagnna ntcnannnnn nttttatnna tacangctac ttgttctttt 60
tgcaggatcc catcgattcg aattcggcac gagctcattt tattttgcat atattaaatt 120
gagtaggttc agctctaaca taccttaaga aaaatgcata tcggtgcact gtatgtattt 180
caaaatgcct ttcctatgat tgtcatgtcc tcctttaagg cttttccctc aaatttatta 240
caaatttagt atttttagta cttgatgact ctaattacat gaatgcacct ggaatgacat 300
ttgtaacaga agacagtctg acttgctttc agtattcaca agttctttcc agtttccaag 360
tcttttccta gcagtaattt aggggagaca gaggagtttc atgtaaagag catgcagttt 420
ggagtcagaa cctgggtatg actctgtggc cttgatgaag caagttactt aaactcttga 480
gttttagctt tctcctttac aatgcatgaa tgcctatccc cctacaaaac aaagattaaa 540
tgtgatgatg tatgccaagg ggctttgnat attgtaaaag tgctatataa ttattaagat 600
ggtctaaatt ttcaagggat ctaaaaccan gggattggca aaccgttttt ncaggggagt 660
aaatattttt aacgcttttg catatattaa attaatggaa ggtggttgaa aagggattng 720
anttngacca ctttgaaagt acctcangga taggggc 757

<210> 2566
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2566
gnnnaggttn tagancagct cttgttcntt gngcaggatc cctcgattcg aattcggcac 60
gagagtgtca gttttcctaa tctcagtcca ggtaggaatt aagaaatatc tcaagtgttg 120
atgctatcca agcatgttgg ggtggaaggg aattggtgcc cagaaaatgg gactggagtg 180
aggaatatct tttcttttga gagtaccccc agtttatttc tactgtgctt tattgctact 240
gttctttatt gtgaatgttg taacatttta aaaatgtttt gccatagctt tttaggactt 300
ggtgttaaag gagccagtgg tctctctggg tgggtactat aatgagttat tgtgacccac 360
agctgtgtgg gaccacatca cttgttaata acacaacctt taaagtaacc catcttccag 420
gggggttcct tcatgttgcc actccttttt aaggacaaac tcaggcaagg agcatgtttt 480
tttgntattt acaaaatcta gcagactgtg ggtatccata ttttaattgt cgggtgacac 540
atgttcttgg taactaaact caaatatgtc ttttctcata tatgttgctg atggttttaa 600
taaatgtcaa agttctcctg ttaaaaaaaa aaaaaaaaaa actcgancct ntanactata 660
gtgagtccnt attacgtaga tccagacatg atnagatcat tgatgaattt ggaccaaccc 720
aactagaatg cagtgaaaaa aatgcttttn t 751

<210> 2567
<211> 756

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 2567
gngnngnnnn nnnnnnngnn agnnnnnnnn nngnnngnnn nnnagngnnn nnnnnnnnnn 60
nttttnanna tacagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 120
gggtagaaga agaaatgatt acgaaaatcc tggataagcc agctcccttt caaggggatc 180
agtgtcctca gtcccccacc cccacctaaa aagcaggtcc cattcagccc agccagctca 240
tccctgcagt tccatccagg acctacaggt gtcgccctcc gcatggcgag gcccggaagg 300
gcagctggct gcaggaggca gaggagtctg gaccgctaac ctgagcatgt ggaaataata 360
tatgtcttca agtgaactgt ctggtcctgg agaaataaaa taggacattc ataagcagtt 420
caccatctgt ctttatacca tcatcatcaa cagcaagang aaaaatagct ctttaaaatg 480
gatgaaagcc caagctgcag taaccggaaa actgtgagct ctgaatacca ataaaggtag 540
agaaatgatt aaaaaacaga gatgcaaact gaaaatttgt ctggacagct cangcccacg 600
atgctttgca ggcanggtgt gtttattggt tccgaaagca taaagcaagc tgnttaccaa 660
gagccagcct ggggaaggct tggtctccgg ncctggaaca cgtnggaacc agggcaaaat 720
ancttccgct ttgaacaaaa tctggtccca ccttac 756

<210> 2568
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2568
ggnnggnnnn nnnnnnnntn ttntananac angctacttg ttctttttgc aggatcccat 60
cgattcgcca ggtctctcca ctgtcaagtt actattattc cctttataat ttgcagttta 120
agatgaaatg cactagtttt agtgcttcat ctgtaaaact actttttat gtgaatttat 180
tttttaaaaa atgtctgtca ctaaagagaa aatcatcatc gcttggcatg gataaaaaca 240
ctaactgcca aagtcattaa cttttggcca aataccaaag ccagctaaag tcacagggcc 300
ttggcctgta ttctttgtta aaaagagatt aacaactgtc gggtgataaa cataagatat 360
accagcacca aactgaactt tctcctctaa ataatcataa ggattgacca aaaactgaaa 420
agcaaattgc ttgctcacta tatgtgattc cttgttactt agggtcacct ccgtataccc 480
tctaaaattg ttacttacat gctttgcagt tggacatatt ttggtttaaa tcccagctcc 540
accaacacct cagacttcat ctcctaagcc tcggtttcct tctctgtaaa acagggataa 600
tagtagcacc tgcctaaggg cttgtgcaaa ttagattggg atagtgaatg atgtatagtt 660
ggtgcttgct taatgaatga cgtggtcagt gtcaatggcg tgtcagaccc tgaaggggct 720
ctagcccagg aagccttccc 740

<210> 2569
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)

<223> n = A,T,C or G

<400> 2569
gnnngnnnnn nnnnntnntn ntgncgttct aatgctngct actcgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagattac aggtgtggcg tgagccaccg tgcccggcca 120
agctcctggc cttcttattc acttgacagt tttgagaatc tttgatttca gggatgttga 180
gagctgctcc tgtcatctgg agttgagtct cacccatggg ctacagtgta cacaggagtg 240
ggaccttctg ttcttgaact taggctgtgg tgtgatcacc cttttctctg catccacctg 300
acaggctggg acttgggcta tgctctggac aaggctggct ggtgcaatga tgccctctag 360
aggatggatc aggcccagtc accacctcag attcagtgcc tgctgctctt cctctttcca 420
cttggccctg gtgacagaca gatagaggcc cagctgacgt gtctatcgga acgactttat 480
ttcagtacac tgggccccac caggcaatgt ggtttgtgcg agctgtgcga gggacangct 540
tgggctaaga gaagggaggt gaagttggnt aaacgcactg cantccgcgg gcgctacgtt 600
gctttcacac atacctgctt cttgtggccc acacctggca ngggcctttg gcataggacg 660
gcntggggga naatcttgtg tgaagtctgg gattggggtg gggtcttggt gtncaggtga 720
nggtgccggt gaaaaaac 738

<210> 2570
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2570
ngaaancagc tttgtncatt tgcaggatcc ctcgattcga attcggcacg agcccagagg 60
ccaccaatgg caatagtagc cgaagcgtac ctgtagttca gcttttgaca tgtgtgtaaa 120
acatgtccat taacatgtgc ttaatctgtt ctgtgaaagt attttcagaa atgataaaaa 180
gtaatgatgg ttacatctga atataagtta gatcatgaca ctcactcctt ttttcagaaa 240
ctaccagtgg catcacatct tactcagagt aaaaaccaca gtgggcttac tgtgggctgc 300
aaggcctcgt aggatttgcc ccccatgact ttctgacttc atctcttgtc acacatctcc 360
ttattcgctc cacgcgaagc acagtggctt tttcactgat tcttaaacat gccaggtaca 420
ctggcctcag agcctttgca ctggcttttc caggcactgg cttttcactc tgcctggaaa 480
gctctttcgc cagatatttg catggctagc tccctcacat tctcctggtg tttactcaaa 540
agtcatgctc tcagtgaggc cttgtatcac caccctaact aaaattatac ccatttattc 600
cttgncttac atcttcctgc ttatttggtc ttagcattca ccatttttctt atgtgcaacg 660
tgtttgtgat ggttatatca tttatttctg nctttccaat tgggaatgta agcatcagga 720
atcagatttt gcc 733

<210> 2571
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2571
ggngatagca ggctcttgtn ctttcngcan gatccatcga ttcgaattcg gcacgagact 60
ccatctcaaa gaagaagaaa gaaaatgaaa aatggntgag aaaagttaag taacgtnctg 120
aggctggagg ggccccgctc ctcctcacct tggggagaag gacagcgtga ggctagcctg 180

ccctacactg ggtggcccct tcccctggcc tgaagttgca gcacctgcag gctaaaccag 240
cacatgcatg agggctgctg ggccggggct tngggagcag ccgatgcttc taaaaccctg 300
ctctgggtgg actctaggga tgcagtttgg gtctgtgtct ggggctggca gacaagccca 360
cgtgcccacc tctgcagaat gagaagtaag ggtgggcacc aggccctgcc cctcacgttc 420
tgctctttct ctaagaactg cagaaccttg gcaagccctt tgcctctgcg tggggtgccc 480
gtgtgccccc catgaggata agcccttcgc ccctgcgtgg ggtgcctgtg tgcccctcat 540
gaggataagc nctttgnccc tgcgtggggt gcccgtgtgc ccctcatgag gataagccct 600
tcgccntgcg tggaatgcct gtgtcccccc catgangata ancccttgg ctttgggtgg 660
antgcctgtg tgcccctatg angataaacc cttttgcctt ctgcntggaa tgnctgtgtg 720
ccccttnggt taagccccaa tgnaa 745

<210> 2572
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2572
gtgnnannca gctctngtnt gtnngcgacn cgatcgattc gctcagctga aaattctttt 60
ccctatctag ttttgttaag gaattcaaca catgccagtt aagctgtcag aaatgaaata 120
atctacctcg aggctgtatt ttaacagatt attatatcga aagaaaaaaa tgaatgttta 180
taaaataaca tttctttttt ttttttttg agacagggtc tcacttggct cactgcagtc 240
ttgacctcca ggctcaagtg atcctcccac ctcagccttc cgagtagctg ggactacaag 300
tgtgccacca tgcctagcta atgtttgtaa ttttttttt ttttttttgt aaagatgtgg 360
ggttttgcca cgttgcccag gctggtctca aactcctggg ctcaagctat ctgcctgcct 420
tggtctccca aaatacttct gtaaatgtaa gaaaagggga ataatgaagt aatagagacc 480
tctgatgatt ctcattactt gnctttgnaa taagatctta aaaaagaatg tgtggcaaac 540
aaaggaaaat accagttcta ctaaataaat gtctgctctc cctgaactct nccatctttt 600
aaacatgaat ctggattttc tgnaanggtc tcttncccta tccacccact taaaaaaaaa 660
aaaaaaactc gagcctntaa actatgggga gtcgnttacg tgatcngaca tgataagatc 720
nttgatgagt tcg 733

<210> 2573
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 2573
ttcnaatagc nagctcttgt tctttttgca ggatccctcg attcgaattc ggcacgagag 60
agggttggtg aaaattcaga cagaatgtaa cttgacaaag agaagacagc aacaactgta 120
acaattatct tatgaatatt tgcgaactca aagggatctg attggtgacc tctgggcttt 180
atcaaattaa catcacaact tctagaagaa agtcaacctt catcttttac aatagaaatc 240
atatgttttg ctaacccatt cctatttagg ctgaaaacaa ttaagagtta tgggtactta 300
aaaaaatcat tatgtttata aaattagtga tagaaggagc atagtgttca tacagtcaca 360
cacatacact tccttatttc ttttatttaa actttgagta acatagcagt ctatgtttgg 420
gtcagttttc cctttttttgt aattacattc agtggttttt gtaacttcat tatttattgg 480
gaattaagtg atttagtcag tgggagtttt gtaaaactta agattttggg cattttcccc 540

cctcctcctg gataaccagt taacccaata atggcttggc ccgatggaag ggtaaaatga 600
ggacagttat atttttaaa tgtcattact gncaccaaat cacacatatc attttctaag 660
ataaggaaat tccaccattt tttcaagttg caaaaaagta ctctggcttg caggttata 719

<210> 2574
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 2574
gnngttaatc agctcttgtc tttttgcagg atccctcgat tcgaattcgg cacgaggctc 60
ctggcntgaa gaagatcaag ttagacactc cagaggaaaa ttgcacggtg gagggaagaa 120
agaaggaaaa actatccaac tctggccaat attgaaagga agaagaagtt aaaacttgaa 180
aaggagaaga gaggagcagt attgacaaca acacaatatg gcaagatgaa ggggatgtcc 240
agacattcac aaatggcaaa gatcagaagt cctggcaaga atcacaaatg gaaaaacgac 300
aattctagac agagagcagt cactggatca ggcagtcact tgtgtgattt gaagctagaa 360
ggtccaccgg aggcaaatgc agatcctctt ggtgttttga taaacagtga ttctgagtct 420
gataaggagg agaaaccaca acattctgtg atacccaagg aagtgacacc agccctatgc 480
tcactaatga gtagctatgg cagtctttca gggtcagaga gtgagccaga agaaactccc 540
atcaagactg aagcagacgt tttggcagaa aaccaggttc ttgatagcag tgctcctaag 600
agtccaagtc aagatgttaa agcaactgtt agaaattttt cagaagccaa gagtgagaac 660
ccgaaagaaa agctttgaaa aaacaaaccc ttaagaggaa aaaagattat cccactatca 720
aacgttattc gaccagnaca cac 743

<210> 2575
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2575
ggnnggnnnn nnnnnnttte aaatagnnag ctacttgttc tttttgcagg natcccatcg 60
attcgaattc ggcacgagca aaggtgatct caggaaaggt ctaagctagt ttacagtatg 120
cccatttcct gtgtaaacca tttaatttaa atgactctgc ttgtctcact gttatgataa 180
atttgtgtgg tagatcgcag cctgttagct attactggaa gttttctgct tttattacag 240
gcctctcaaa taggtaggtt ttaacatttt attggacccc ctgccccttc ccaatttcaa 300
ctattaaatc cttaaatttg ttgttttggt tatgcagaag ttagttatca ggttatatgg 360
ttcccaatga gtgaggaaat tgggaaggtt ttgtgttttt tttgtcttgt taactagaaa 420
tgggttttgt agtttagctt aagggcccca acagcttgtt tgagaagaca gctatggaac 480
ttgagctgtt tacatgtttt ttaatactgc gagtgtatta ggaaaattgt acaagtcctt 540
ctcttggtct ttaggactta agtgagttta aagagatgac aacatgtgtt ttccccaggt 600
aagctttctt tgaggatttg nctttctttt aaaaaaagtt gcttgggcac ggtggctnac 660
acctataatc ccccactttt gggaactgan gtgggaggat acttgancct anggagtcan 720
aaccagcctg g 731

<210> 2576
<211> 745

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2576
gnnngttaga tcagctcttg ttctttttgc aggatccctc gattcgctga cctcctcctc 60
agagaaagca ctggccaacc agttcctggc ccctggccgt gtgccaacca cagccagaga 120
gcgagtgccc gccacaaaga cggtgcatct gcagtcacgg gcgcggtaca ccagcgagat 180
gcggagtgag ctactaggca cggactctgc aggtgagtca ccatgaacac aacaggactt 240
gagggccagc tgactaggac aagacatgta tccttgctgc cccggggcct ccatgccgag 300
actccatgcc ctgactccaa caggagcatc accaaactac acctggagga agagccagga 360
cagaggaaat ggccccgaga ggaaacaaag ctaggcacag tggctcacac ctgtaatttc 420
ggaggctgag gcaggtggat cacctgaggt caggagtttg agaccaacct ggccaacatg 480
acaaaaccat gtctctacta aaaatacaaa acttagccgg atgcagtgcc acgtgtctgt 540
agtcccagct actcgggagg ctgaggcagg agaattgctt gaacccagga ggtggangtt 600
gcaatgagct gagatcacac cactgcactt caacccgggg cgacagagca agactccgtc 660
tcaaaaaaaa aaaagcnaaa aaaattacca ggcgttggtg accacacctg tagtccagca 720
tacttgggan gctgangcag gaaga 745

<210> 2577
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2577
gtgngggnnn nnnnnnnttt naaatagana gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc agcagcagcc cgaggcctga ggagaggaga ccggcggcgg 120
cgggcaatgc tggagaccct tcgcgagcgg ctgctgagcg tgcagcagga tttcacctcc 180
gggctgaaga ctttaagtga caagtcaaga gaagcaaaag tgaaaagcaa acccaggact 240
gttccatttt tgccaaagta ctctgctgga ttagaattac ttagcaggta tgaggataca 300
tgggctgcac ttcacagaag agccaaagac tgtgcaagtg ctggagagct ggtggatagc 360
gangtggtca tgctttctgc gcactgggag aagaaaaaga caagcctcgt ggagctgcaa 420
gagcagcttc agcagctncc agctttaatc gcagacttag aatccatgac agcaaatctg 480
actcatttag aggcgagttt tgaggaggta gagaacaacc tgctgcatct ggaagactta 540
tgtgggcagt gtgaattaga aagatgcaaa catatgcagt cccagcaact ggagaattca 600
agaaaaataa gangaaggac ttgaaacctt caaagctgaa ctagatgcag agcacgccca 660
gaagtcctgg aatggacaca cccacaaatg aactgaagga ccgcagaagt tttttgagga 720
accttccacn g 731

<210> 2578
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(801)

<223> n = A,T,C or G

<400> 2578
gtgnggnnnn nnnnnntttc aaatagnnan gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagga ggaaagcggt gcgtgaggcg ggcggccagg gcacgacttt 120
gaagattatc caatgagaat tttatatgac cttcattcag aagttcagac tctaaaggat 180
gatgttaata ttcttcttga taaagcaaga ttggaaaatc aagaagcatt gatttcataa 240
aggcaacaaa agtactaatg gaaaaaaatt caatggatat tatgaaaata agagagtatt 300
tccagaagta tggatatagt ccacgtgtca agaaaaattc agtacacgag caagaagcca 360
ttaactctga cccagagttg tctaattgtg aaaattttca gaagactgat gtgaaagatg 420
atctgtctga tcctcctgtt gcaagcagtt gtatttctga gaagtctcca cgtagtccac 480
aactttcaga ttttggactt gagccggtca tcgtatccca agttctacca aacccttcac 540
angcagtgaa caacttttaa gggaagagcc cgtaattgta accccacctt accaaaccaa 600
tcacttagtn aaaagttcct aaaaaacttc caaaaatggt gccacttaaa aaatgggatt 660
gnatttttgg aaatggtggt aaacttncct aaaanttagg aaccaccttt tngggnattc 720
ttctggnaat tattncctaa tgggggnttt naaaatggaa agaantttcc ccccaattgg 780
gggacctttn aaaaaaatgc c 801

<210> 2579
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(841)
<223> n = A,T,C or G

<400> 2579
tttnttantg gggtnttcng gctttcnaat ngcttggcta ctcgnnctct nngcaggcat 60
cccatcgatt cgcgccgggc tgcccagcct ggctctgtct acactggccg agtctctggg 120
tctgtctaca ctggccgagt ctccgactgt ctgtgctttc acttacactc ctcttgccac 180
ccnccatncc tgcttactta gacctcaccc ggctccggac ccggtacggg cagtctgngg 240
cancangaat gaanggcgcn ccgnnccctn cttcatagga ggctctgggt gggggcctgc 300
tncccatacc cacaagctca cccagcantc tcattgctgc tgtnganttc agctttacca 360
gcctcagtgt ngangcttca tncnagcnca cangcctngg gcttgncang ggccnanctg 420
gggctnggcc cctgggtntt gaganactcg ctggcaccac agtgggcccc tggaccccgg 480
ccgnncanct ggtngactgn aggggcttnt gactgngcac aggngctncc caacttttgt 540
tcnacnngca ataaagaatg ggcntgaccc tggtnattat atacttgggn ncntaanggn 600
ggctaaaggc ccccccatta aaatgcgcct aaactttnaa nggntttgna nggnaantaa 660
antgcctgna taatttaatn ttaaaacntt ggncnannng aanttnacct cntnancgaa 720
taaaacctgg gcaacnnaaa nttanttgga cccnnnataa tttttgntaa aacccccttt 780
ataaaacttn gggatntctt tttgggtaaa nnnnanctgg ccctnnggan tcttaaaacc 840
g 841

<210> 2580
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 2580

aggtggttnn gangncattc naatnganag ctacttgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggac ccaccctctc caggcctcag tcttatctct gaaatggggt 120
gggtgttgag aggtggcttc taagatcttt ctacttccca aacttggaat tctcttttta 180
ggagcatctg cgtgcccaga tgtatgttgg agcccatggt gtatgggggt ggggtggggg 240
gaagggntnn gtnnccnaat ncactgtggc cttnnntcgn ngtganatan nnnttnannt 300
ntnnacntca tcntnntnnn gtttgnctnn tnnnanacnn tcttnnnnnt nnnttattat 360
ggannnttct ncanntntat nntanatnna cntnnnttca tnnnnattnn tnggnnattn 420
tccnnnngnt nnnanatnnn tnaantncnt angnntnctn tntntnntat nnntgnantt 480
nananatnnn nnnntntann atnnntatnn nnnttnnnnt nnatntntng gnnntnnnnn 540
annncnnttn gnnnnnnnnt nnnnntnntn nntnnnnnnn ntnccnnnnn ntnnnnnnnn 600
nntnnctgnn tntntntaan nnttntgtna nnnntnnnna nnntnngntn nnnnnctnnn 660
nccnntnnng ntnnanattn ntntannnnn angtcnnttt nnncnnanac tntntnnnaa 720
ntgnntnnnn cnaannaatt nnnnntntcn aananngngn cnntattntn ctannntatn 780
ngnngntntt ttannnnnnn nnnnnnntat tntattnngt ntnntttnnt ntatnnnnnn 840
ngntntatnt ttncncntnn ntgntctnat ncttnnngna ntnnnnnant tnntatctna 900
tntgtcnntn atnttntatn acacttntna tattnnngcn nntntaannn nnatatnnnn 960
taatgtnctn nntnnntcnc atntttctta nnnntnnnnn ntnttntttn ncntntatcn 1020
tnntgtcntn ttnctntann ntnanntntn nttaaannat ntcntntnnn ntnntntnnn 1080
antccnntnn tnntnnntat nnnnntnnna ntnnnntntt nncacttnnt anantnactt 1140
ntnnannata nntnnnnact annatnantn gcncnnantn tatatcccnc c 1191

<210> 2581
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 2581
gggnttanta ncagctctng tnggtggggc aggatcccat tgnnaatntc agctacttgt 60
tctttttgca ggatcccatc gattcgaatt cggcacgagt gagacagagc agccccagaa 120
cacacaccgg ggagtacagg agcctaggcc acgtacccaa cattgcaggc agagaaaaaa 180
gaaagtgtat tccatgtaag caaatgttat ttggaccttt ctctctgtct gacctaatca 240
tggctcacag aaagtaatca tactcctaat aatacatcaa cttatctgat ttatccacac 300
aatcacgtag attaatgtat gcttctattt cctggtcgct ttagcataat attgatcata 360
aattgataaa taggaataaa acaatataat tagattaatt tacaatacgg tatagttgac 420
taataacatt ttcacgattt acatactaag aataaataca tttttaatca aatgtctccc 480
ctaggtggtg cattccaggc cttagaataa aattaaaagg gaaatcaatg aagacacatc 540
cactggtcac actctcatct tcaatgtttg accagtggct gaactgtttg gagttgcaga 600
atggatattt ctcttttata gttttagggt gcttggaaat tgctctttta atgctcatgg 660
ttactcttat tctgggnggc ctttaactca ttaaagacag ttttccattg agaaaaaaaa 720
nnnnnnnnnn nnnnnnnnna aaaaaaaaaa gnctttaga actnttn 767

<210> 2582
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2582
tggnggnttt taaaanncag gcnctngggn nngannnttg ntataganag ctacttgttn 60
ctttntgcag gatcccatcg attcgaattc ggcacgaggg gattacaggc gtgagccacc 120
gcgcccagcc tcatatcccc catttcaaac acgctgtaaa caatgctcaa ttactttcct 180
cttaagttga aaccaccaat tactggggaa aggggcagtt agattttatt ggttgacttt 240
gtgtttttac taatccttgt tgaaaagtag aggaattggt ttagttgaga aaacaaaata 300
ctaaaaaatc tgccactaga ctttttaagt caagagtttg tataaaatga aacatatcta 360
ctatctaatc tataaaattt agaatctttt taattctaaa gttaacttaa gtgtgatttt 420
tagtgctgtt gctgaggcca gtgttgctta aagcaggaac ttctacagta attgacaaaa 480
cttgagtttt tctgctctca tttatccatc cttcagaccc ctcagatgtc atctatttcc 540
tgaaatctga cttctccagt tttagtaatt cttacaattt ttcaggattt agatagtact 600
gtcagtttac tgctatgtat atgtctttaa tacttggtgn tttcagatat tacactaatg 660
nctcatctgt agtataaatc agactttctg ncttctacca gttacataat ttatataatg 720
gtgcagtaca tgtttggtga ttactaggct gga 753

<210> 2583
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 2583
gggnttaanc cntnnnnntn nnaggggnn nnnnnnnttn tangantcag ctcttgttct 60
ttttgcagga cccatcgatt cgaattcggc acgagnaatg cctctatgta ggtgaagtgt 120
tctctctgca tgcaacagta aaaattaata taatattttc cccacaaaag aaacacttaa 180
cagaggcaag tgcaatttat aaatttatat ctaaagggga atcatgatta taagtccttc 240
agcccttggc tctaaattga ggggattaaa aagaatttaa aataattttg aacgaattta 300
ttttcccctc agtttttgag ggcattaaaa aggcattaaa tcaagacaaa tcatgtgctt 360
gagaaaaata aaattaatga aacacagcac ttatgttggt taactgcagc ctccttggag 420
gtagaattat ttatttaaaa ttactggtgc atcaagaacc catagggtgt ccaaaaggtc 480
tataaaatcg cattttggag ncaaagaggg caggcaaatc catgtcacaa gggtaaagct 540
tccaagttnc caaattgggg aacgccaggg gtgtagggat ttaaaaaacc ccactnttgg 600
agaaacccaa aatgtaatca gggggggctt gaaaaacctt gcatggggct ttttaaaaca 660
nttagccctt tgngttaaca aaaatttctt ggngatttgg cacgatcccc taannggngc 720
ccattnggcc cnaacaccaa tttttggccc cttatgggcn ctttnaaaaa ttttaatttn 780
aaaaataccc ctttttnccg ggn 803

<210> 2584
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2584
tgggtttnga tcaanngctc ttgttctttt tgcaggatcc catcgnttcg aattcggcac 60
gaggcaacac aaactgaatt tccttattgc tgatagctgc ctgtagaggg gtggtcaaag 120
agactctacc tggaaaactc ttacagaaaa acattattga ataccctctt agtttcagag 180
tttccagtct catttctcct taaatctatt caccaaaaca ccaccagttt cccctaccac 240

aaacacacac ataagtacac actcacctat tttcaccttc tcttccactt ccacctttgt 300
gttgaacctg attaaactct gatactttta actccaaaat atgctatgct cttattaaca 360
actggatctt agtagtttgc aaatgtttat ttctcgttta tatgcagttc attgtgagca 420
ggtggatgtt ctgctccata cccactgcag tccgagatct agacagaaaa gtagcttttc 480
tctagaatat tgngggttcc ataccagaca ggaaaaatga aattacacag tggcttatat 540
aatttttgct tgtactttca cccacatttc attgcaaaag caagtcacat agccaaggtt 600
attgggttta ngaggggtct ctgaaaatgg ccagtagggg agacaaaggg gatatttgtg 660
aacaatattg caatctatcc tatatgtcat tctttaaggt ttaacacagn 710

<210> 2585
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 2585
agttangtcg natcgngttc tttttgcgga tccctcgatt cgaattcggc acgaggaaga 60
agctgcagaa gaaatgaaga aagtgatgat gatttagatt ttgatattga tttagaagac 120
acaggaggag accatcaaat gaattaatat cactgtatta aaagtctgcc gggcacagtg 180
gctcacgcct gtaatcccaa cactttggga ggccaaggag ggtggatcac ctgaggtcag 240
gagttcgaga ccagcctggc caacatggcg gaaccccatc tccactaaaa gtacaaaaaa 300
ttagctgggc gtggtggctc atgcctgtaa tcccagctac tcaggaggct gaggcaggag 360
gattgcttga accctggagg cggagattga agtgagctga gttcgtgcca ttacactcca 420
gcctgggtga cagagtgaga ctctgtctca aaaaaaataa aataaaaagt caatttagaa 480
tgtgaaattc tgaccacctt ttggctttga gtattttcca aaagatattt gaaatcctaa 540
tgaggaaatc agaaaaagct atggaaaaat agacaaattt catacccttga acaatataaa 600
ttgngtatat taccttaaca tcaaaactaa accaaggatt caagaattga tggttggatt 660
aaagaaccta gcntcatgtt aaaaattaaa attaaccttt aattaccntt gncctcaaaa 720
aaaaaaannn nnnnnnnnaa aaaaccttng aagccaangg gccctttttg gaggcccttt 780
t 781

<210> 2586
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 2586
nnnngttana ncagctcctt gttctttntg caggatccca tcgattcgct cgagttttgg 60
atttggagag aaatatttta atttttaaat gcagttacaa attataatgt attcatattt 120
gtactttctg ttaaaatgca tgattgcaga attgtttaga ttttgtgttt attcttgatg 180
aaaagctttg tttgttcttg tttttaagtt tgcactcaaa tcttaagaaa taaatccacc 240
catgttatca aaaaaaaaaa aaaaaaaact cgagcctcta gaactatagt gagtcgtatt 300
acgtagatcc agacatgata agatacattg atgagtttgg acaaaccaca actagaatgc 360
agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta 420
taagctgcaa taaacaagtt aacaacaaca attgcattca ttttatgttt caggttcagg 480
gggaggtgtg ggaggttttt taattcgcgg ccgcggcgcc aatgcattgg gcccggtccc 540
agcttttgtt ccctttagtg agggttaatt gcgcgcttgg cgtaatcatg gtcatagctg 600

tttcctgtgt gaaattgtta tcccgctcac aattccacac aacatacgag ccgggagcat 660
taaagtgtaa aagccctggg ggtgccctaa tgagtgaacc taacttcaca ttnaattgcg 720
ttgccgctca ctggcccgct tttccantcc ggnaaaccct 760

<210> 2587
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 2587
ngtaaatcag ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggcg 60
tgtgtgtgca caaagcccct aaggtttcat gtgtacacac cggtgctaag tgtttttac 120
acccttgtgc atctctcggc ctggggctcc tgtgcaggtt gccctgagag ttgggttttt 180
agttcaaaaa gaaggaacac agatgactac tctgctggcg acacggccac tctgctggca 240
cgcacatagc atggcgcctc ctttttggg ggactctcct tggtggcatc tctggcaggc 300
tgtgtcctct ccagctgcag ttctggaccc tgtctgggtt ggggaggggc atttggtcct 360
caggctgagc ccacctggat tccccaggcc cttggtgagc gccactctgg ctgcaactcc 420
ccttgcctgg cccgtcctga ggcccctctc tcgtcctcag tggtggttct ggcggggctg 480
ttcgtgatgg tgttgatcct cttcctggga gcctccatgg tctacctgat ccgggtggca 540
cggaggaacc aggagcgtgc cctgcgcacc gtctggagct ccggagatga caaggagcag 600
ctggtgaaga acacatatgt cctgtgaccg ccctgtcgca agangactgg ggaagggang 660
ggagactatg tgtgaacttt ttttaaatag aaggattgac tcggatttga ntgacattaa 720
ggctgagtct gttctt 736

<210> 2588
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 2588
gttttnnnnn ttnnnantct ctngttcttt ttgcaggatc cctcgattcg aattcggcac 60
gagcacaggc tttggttcag aatataggtc agccaaccca ggggtctcct cagcctgtag 120
gtcagcaggc taacaatagc ccaccagtgg ctcaggcatc agtagggcaa cagacacagc 180
cattgcctcc acctccacca cagcctgccc agctttcagt ccagcaacag gcagctcagc 240
caacccgctg ggtagcacct cggaaccgtg gcagtgggtt cggtcataat ggggtggatg 300
gtaatggagt aggacagtct caggctggtt ctggatctac tccttcagaa ccccacccag 360
tgttggagaa gcttcggtcc attaataact ataaccccaa agattttgac tggaatctga 420
aacatggccg ggttttcatc attaagagct actctgagga cgatattcac cgttccatta 480
agtataatat ttggtgcaag cacagagcat ggtaacaaga gactggatgc tgcttatcgt 540
ccatgaacgg gaaaggcccc gtttacttac ttttcagtgt caacggcatg gacacttctg 600
tggcgtggca gaaatgaaat ctgctgngga ctcacacatg tgcaggtgtg ttggtnccag 660
gacaaatgga agggccgttt tgatgtcagg tggattttgn gaangacgtt c 711

<210> 2589
<211> 774
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 2589
tgggtnttat gnatncagct cttgttcttt ttgcaggatc ccatcgattn gctgaaattg 60
aagatgttgg ttctgatgag gaagaagaaa agaaggatgg tgacaagaaa aagaagaann 120
ngaagcaata tataaagaac gttggccaga ttatgtaagg gaactgcgaa gaaggtattc 180
tgcaagtact gtagatgtta tagaaatgat ggaggatgat aaagttgatc tgaatttgat 240
tgttgccctc atccgataca ttgttttgga agaagaggat ggtgcgatac tggtctttct 300
gccaggctgg gacaatatca gcactttaca tgatctcttg atgtcacaag taatgtttaa 360
atcagatnaa tttttaatta tacctttaca ttcactgatg cctacagtta accagacaca 420
ngtgtttaaa agaacccctn ctggtgttcg ganaatagta attgctacca acattgccgg 480
agactagcat taccatagat gatgtcnctt atgtgataga tggcngaaan ntngaanaga 540
cncattnnga tactcagaac caatatcntt tacaatgtcc ctcttnagtg gggntagnna 600
aaagcnttaa tgcccnaaac catantaana agggtcnctc ctnggnaaaa annttcaacc 660
cttgggncca attcgcntat ncaatctngg cttaacnggg nncntttang acnccaannn 720
nntttncctt angntngnnc ctnttcnaac ctggncccnn aannnttttt cncg 774

<210> 2590
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G

<400> 2590
ggnnanagca gctcttntct ttntgcagga tccctcgatt cggagaggta atgcttcatt 60
ttgcatagtt gggaatcaag ataatctgtt tttaataata caagaaacaa aagcataact 120
atattattta tattacaaaa gcaatcttta gaaaaactaa aaggggtata taagtattga 180
gaggagagga aaaggaatga tatggtatca tgaggtaatt tttgatcaat tatagtagga 240
aatagacaat atctaaaatg gataaaggga aaatggcaat attatctttt tattttatat 300
tattttaatt ttttaagaca agtgctcgct ctgtcgccca tgctggagtg caggggtaca 360
atcacagctc actggagcct tgacctcctg ggctcaagtg atcctcccac cacagcctcc 420
cgagtacctg gtactacagg catgccacca cacccggcta atttttgnat tnnnnnnnan 480
ncnnnnnntt nnnnntnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn cc 840
852

<210> 2591
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(715)
<223> n = A,T,C or G

<400> 2591
ggnttnaaat atcangctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gagaataaaa ggttccaatt tgagtttcat ctgctcagct gccagcagca gtgattcccc 120
aatgactttt gcttggaaaa aagacaatga actactgcat gatgctgaaa tggaaaatta 180
tgcacacctc cgggcccaag gtggcgaggt gatggagtat accaccatcc ttcggctgcg 240
cgaggtggaa tttgccagtg aggggaaata tcagtgtgtc atctccaatc actttggttc 300
atcctactct gtcaaagcca agcttacagt aaatagtatg tgatctgact tttcctttag 360
catttaaaga taccttttag aaatagaaag cacctgtttt tctctcttaa tcttaaccct 420
gtcttttctt ctcacagttc cccacctgac tcttcctttc cctacctttc attccacaaa 480
attaagattc ttggttattt gtatctaaac ctgcaattat gttgaagacg acaccgtact 540
cagtgtggtg agtaacacag agatgaacca gacatgtttt tgctctttnt ttttttcttt 600
tctttttttt ttttgagacg gaatcttgca cttgtcaccc caaggnttgg atgacatcct 660
gggttgcant gagctgaaaa tggtgccaat gnacttccaa cctgggtgac aaaat 715

<210> 2592
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 2592
ntnaggggnn ttgaaggncn ntttctanat gctaggctac tngttctntc tgcaggatcc 60
catcgattcg aattcggcac gaggtcatga tcaactcagt ataggttttc ttaaaaaatt 120
ttttcttaaa atgtttttg aacttcaaat aagtttggtt ggtgctacag atttaaatcg 180
acttgtttgt gaggataata gaattctttt tgctatgaac ttatcagtca gcccagcgtc 240
tgtgagacgg tgcctgcttg catggtgcag tccagagtgt attttgcaaa cgtctagcac 300
tgcctttatg taggacgcgt gcttcgtttt attggtctaa aatttcccat gtcataacac 360
tttgatcatg ccttagagaa gtcttacagc ttattcagag cactttggag acattaacac 420
ccagcgtgca aatgcgtctt cttgcttagg cgtcttgtgc cttgtgttca gcatcagtct 480
ctaggcccgc ttggtgtggt tctggaccan agaaagtgct ggtgagaaga tattcctcan 540
cagtgttggg agagcangcg atggaccctg ggtttgnttc gatgtggttc acgtgcggta 600
ctgtttctca aaagtggtca tttggagtac ttgatgtacc tggatttttg ctaacccttg 660
tncanctttg ctgttcttta tgtaaaatat attcattttc aaaggaaatg gttgggccgg 720
acacagtggc tnacgcctat tatcccanca ctttggggag gc 762

<210> 2593
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 2593
agnnntanat cngctctctt gttctttttg caggatccct cgattngaat tcggcacgag 60
aagaaaccag tagctagctg ctatttatat ggtgaggggg tgctgcctgg taacagaata 120
gctccacacc acagcttgag attttgttta gtttcactgt gtgagctttc ataaagtctg 180

ttgccattcc atctctgtgt taacacttca tatttttatg aaattcagat aatttgtgag 240
aggctggcat ggatctaagg atttattatt tttattctag tccatcagtt cagtcgcagt 300
ttttatacta ggactttagg atgtacataa atgtgtgact gtttgtcttg attaaaagtg 360
cactgtgccc agcatggtgt ttcttatatc aggtgtttta gggagctcgc ttgcttattc 420
cattctttaa tccttacagt gtgccacacg tataaagttt ataacgtatt aatgatctca 480
ttacccaaaa ccagaacata atttcacaag ggttcctact tctgtattgn tttattatct 540
caaaaattta aataacatgt tctgctgttt attggtcttg ntatccactg nattagcacc 600
ttccctgatg tgctttggag gttgatcaat gaattctgag actttctgct ggaattactt 660
taagggtgct tattagatga tgaaaaagtt ggctgagacc cn 702

<210> 2594
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 2594
nntttagatc agctctcttg ttctttttgc aggatccctc gattcgaatt cggcacgagg 60
ctttatctct aaattagaat cacaaatgcg taatcttttc agggtaaaaa tgtgtcatct 120
ttaaagtctg tttcagatat attttaaatt actatttttaa atgaattcat atggaaaagt 180
cgtgggagct taaggccttg tttaaaaggg aaaaaacaac tgagtctttt tagattaatc 240
aaaaactatc ctcttccttt ggagaggaga gagtgtttgt cacacgcgga atgaagtgcc 300
atgttctttg aggcacgatt tgtatgccat ttggaggang gagtccgttc aagagaatgg 360
attccctgac aagctacgtt tgccagaata ttccaagaca tgttttagaa gctacctatg 420
gcattaacat cataacgcct agagaggatg aagatcccca ccgacctcca acatcngang 480
aactgttgac agcttatgga tacatgcgag gattcatgac agcgcatgga cagccagacc 540
agcctcgatc tgcgcgctac atcctgaagg actatgtcag tggtaagctg ctgtactgcc 600
atcctnctnc tggaagagat cctgtncttt tcagcatcaa caccagcgac tcctagagan 660
cnaaatgaac agtgatgaaa taaaaatgca gctaggcaga aataaaaa 708

<210> 2595
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2595
ggttnntagc ngctcttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
ttagggtcag atccatgtat ttgtagcttg gaggtgagcc caggggttca tacacaactt 120
tgctccctac tgtctgtgat ccctctgcca ctttctggtt ccttggagct ccctttcatg 180
atcctcctgt cagaatacca gggctttaat ttgcccactc tctgccatgc acttctcatg 240
actgcatctg catccagggc caagcggtag gaggacagag ggagcctaaa taaacaatag 300
gatttgtttc acagtcttga agctacagct tctctggtca gagaaaagaa ttcaaagccc 360
tcagagtttt aggtacctgc tcaaattcta cctctgttgc ctaaggttag agagaacaaa 420
ataagaaaga aaaaaaaagc aggagatttc ccttattttc tctgaacttt tggcattcct 480
ttttctgttc tttggaccag aaaatgagtt gaagttcctc tgttcacacc tggtgtttac 540
tttcatgttt caagctgctc ttaagtctag accaggtaat atctgagggg gaaaaaatgg 600
gacactcact actggcttgg tggtagttta aaccctggct ctttcccggt gtgctcatta 660

tcatttactt tcagagtttc cagaaagctg ctccatgcat tctatctaga 710

<210> 2596
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2596
tgttnctaat gcnaggctct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggcttagaa aattaacctt tttctattag gctggtgcaa aagtaattgc ggtttttttg 120
ncnttaaaag taatggcata aaccattact tctattaata aaaccctcaa ttntcatttt 180
catagccttt cagaatggga gtaagctttg caatcaacct gctccttcat cttatctgta 240
cacttgataa atctgattca gtggttggaa cggaatctgc ttttcctgta ttggttacaa 300
gcaagcactt tgcctgggtg agtgtagctg cagtatagca tagaattaag actacagttt 360
catagtcagc gcagcttgaa atgntggctc tatcatttac tagctgtgtg atcttgcaca 420
aaatcctnaa cttctctgcg cctgtttcct cacttaaatg gnantnacat tgttatctac 480
ctcatggagt ngntatgaag attaaataac ntgcatagna acntgcanaa gctncnnacn 540
nnnnnatatn ancctnanac canctctnnc ncctncctcn ctnctnanct aannaanacc 600
nnnnggtgng gngnaaattt cttctanaaa gaaaaatntc cttgaaancn ttttnaaann 660
nnactaantt tnctcantna atctngtnna tnncanggnn naacctaaaa tccanncnnn 720
nnganacntn cccnntntat tntatantnn gncntannag ggcanntanc ctncn 775

<210> 2597
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2597
gntttanat acagctactt gttctttntg caggatccca tcgattcgcc ccgaccccgg 60
gccacctggg cccccgggtt ccgccggcac tctcgccacc accgcgtggg tctgacaaga 120
tgtaccaggt cccactacca ctggatcggg atgggaccct ggtacggctc cgcttcacca 180
tggtggccct ggtcacggtc tgctgtccac ttgtcgcctt cctcttctgc atcctctggt 240
ccctgctctt ccacttcaag gagacaacgg ccacacactg tggggtgccc aattacctgc 300
cctcggtgag ctcagccatc ggcggggagg tgccccagcg ctacgtgtgg cgtttctgca 360
tcggcctgca ctcggcgcct cgcttcttgg tggccttcgc ctactggaac cactacctca 420
gctgcacctn cccgtgttcc tgctatcgcc cgctctgccg cctcaacttc ggcctcaatg 480
tcgtggagaa cctcgcgttg ctagtgctca cttatgtctc ctcctccgag gacttcacca 540
tccacgaaaa tgctttcatt gngttcattg cctcatccct cgggcacatg ctcctcacct 600
gcattctctg gcggttgacc aagaagcaca cagtaagtca ngaggatcgc aagtcctaca 660
gctggaaaca gcggntcttc atcatcaact tcatctnctt cttcttngng 710

<210> 2598
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 2598
gttcaatgct nggctcttgt tctttntgca ggatccctcg attcgtttgg tcagttgcac 60
cttctgggtc actggtagcc gcgggagccg ggtggggcct aggcgatgat ccggcattaa 120
ggagctggga tcatcctccg tctcaggtgg tttggggaaa gtgtaggggc aaccaaagat 180
catcggcttg actaggccct ttgccctgaa cctcatgaag aaatgatagg aggcagacat 240
atgtgcctaa aaagagcgtt gagctcagag aagagcaact cggagttttg ggggtgtgct 300
ttgatttgtg tacatcaatg gcagaatcat ccagcgaatc agatcacttn cgctgtcgtg 360
accgattgag tccatgggct gccagatcaa cgcacagggg aactcgaagt cttcctacag 420
tagaagttac cgagaaggtc aacactataa caagtacttt acaggatacc agtcggaacc 480
tgcgacaagt ggaccagatg cttggacgat accgagaata cagtaatgga caggcgggtg 540
cgatagaaca tgtgagaaac tacatttgtt tgcattttct cctacccacc ttttttgggg 600
aatgaantgt tttggggaat ggggcttgtg aactaaaagg aaaaaaacca ttggtgaaag 660
tgcttttaga attttaaaac tgnatttaat tattttatan gtttnaaagt ttaaggttag 720
ct 722

<210> 2599
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 2599
agtgcttcta ntnnattgct acttgttctt tttgcaggat cccatcgatt gcgaattcgg 60
cacgaggttg atctctcatc agtgtttgac agttaatcac ttttttcctcc ttgaaatacc 120
gggggntgag gcttncaaga caccacacac aactggttta cctctctctg nctctctctt 180
ttttgtttcc tttgctgact ctttctcagc atttcngcta gggttnagtc catggcattt 240
cttnacattn ntggctacct ttctccctta angtacntnt ctagacttcn aantccatnn 300
attcctagtt tnaagatntc cctttancaa cttaattnca tnnannnttn nanacacagt 360
ccttgaanat tnccnanagc caaaacacgg antcgtacnt gaacccctnn nnnntctcat 420
atcacataca cggtntgtca tcanntcatg atatncttcn cnctttnttn nanantnttn 480
ccnntntctt atnaattcnt ttngnanctn ttcctnccnc aatccaaang annnttannt 540
gcttnnatta aactatatnt annggngntt ttnttcnntc tcngnganan aaanatnttn 600
naaancccgn tnncttaaat ncaattntnt gcncctttct nnnaaatgnc nanngnccnt 660
taatcatcca actnggtngg ntccaggggn ncanatggct ntaccaatcc ttgcnnaanc 720
cntcacgnnc tttttggcnn nnggccnttn tantncggcc nanatctacc ctcgtnnngg 780
aangccantt nc 792

<210> 2600
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 2600
ggcngntnta tgnagctctt gttctttttgc aggatccctc gattcgcaaa gccactttga 60
attctggaaa gttgacctga tggagaagaa ccaggaaaac caagaccagc atttgaggaa 120
agctggtttt gtcaacaaca aaatactgat ggaagacaga aatagtgttt taggagaaac 180
atttaatata aattcaaacc ttgttccaat gagaaaaata cctgataaat atgacttatg 240
tataatgaac gtgaattata tttcagaatt aattgttagt aatagaaact cctttggaag 300
gaagcttgat gagctcagtg cacatgcgaa attgctcctt catatgacat gagcatcctt 360
atgccagaga gaaacatttt gagtgtgata gaaatgagaa agccatctgt tagaatgagg 420
acttatttca gcatcaggat attcaaactc tgaagcaaat ttttgaatac cttgagtgtg 480
ggaaagcttt tcatgaggag gcagccttca gtacccataa gagagtgtgc ttcttgggag 540
aaaccttgtg aatataatga acaacttaag agccttttct gacaatncaa accttcttgg 600
tcatcagagt actcacagaa gggaaaatca ctacgagttt aattgctggt gggangaagt 660
ctgtngtgag aaatctntaa ttaacaccat ggaggaatca tggggaaaaa ta 712

<210> 2601
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2601
ggngnntttt atagatacan gctacttgtt ctttttgcag gatcccatcg attcgaaaca 60
acggagttct ctttttctgaa tctgcaaaaa agggtactca ctttgtccag ttatgctgcc 120
aaagaaatat tcctctgctg ttccttcaaa acattactgg atttatggtt ggtagagagt 180
atgaagctga aggaattgcc aaggatggtg ccaagatggt ggccgctgtg gcctgtgccc 240
aagtgcctaa gataaccctc atcattgggg gctcctatgg agccggaaac tatgggatgt 300
gtggcagagc gtatagccca agatttctct acatttggcc aaatgctcgt atctcagtga 360
tgggaggaga gcaggcagcc aatgtgttgg ccacgataac aaaggaccaa agagcccggg 420
aaggaaagca gttctccagt gctgatgaag cggctttaaa agagcccatc attaagaagt 480
ttgaagagga aggaaaccct tactattcca gcgcaagggt atgggatgat gggatcattg 540
atccagcaga caccagactg gtcttgggtc tcagntttag tgcagncctc aacgcaccan 600
taganaaaga ctgactttcg gnatcttcag gatgtaactg ggaataaaag gatgttttct 660
gttggacatg tactggaaaa ttaacacatg tngtagcctt aaaaatttta gacttnttct 720
aacatgangn ttg 733

<210> 2602
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 2602
ngnggnnttt tagatcagct cttgttcttt ttgcaggatc ccatcgattc gaattcgtca 60
cgagaactcc tactgttgaa tacatctgca cccaacagaa tattttgttc atgttattga 120
aagggtatga atctccagaa atagctctaa attgtggaat aatgttaaga gaatgcatca 180
gacatgaacc acttgcaaaa atcattttgt ggtcggaaca gttttatgat ttcttcagat 240
atgtcgaaat gtcaacattt gacatagctt cagatgcatt tgccacattc aaggatttac 300
ttacaagaca taaattgctc agtgcagaat ttttggaaca gcattatgat agatttttca 360

gtgaatatga gaagttactt cattcagaaa attatgtgac aaaaagacag tcactgaagc 420
ttctcggtga actactacta gatagacaca acttcacaat tatgacaaaa tacatcagta 480
aacctgagaa cctcaaatta atgatgaacc tgctgcgaga caaaagtcgc aacatccagt 540
ttgaggcctt tcacgttttt aaggtgtttg tagccaatcc taacaagacg cagcccatcc 600
tagacatcct cctcaagaac caggccaaac tcatagagtt cctcagcaag tttcagaacg 660
acaggacgga ggatgagcag tttaaccgac gagaagacct atttagttaa acagatcagg 720
gn 722

<210> 2603
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2603
ggngggtttc taatagnnng ctacttgttc tttntgcagg atcccatcga ttcgaattcg 60
gcacgagaac cagagctggg cccaggccag gaaacaggca ccaattcccg aggaaggtcg 120
cctagcccca ttggggtggg gtcagagatg tgcagggagg aaggggggaga gggcacgcca 180
gtgaagcagg acttatctgc tccccctggc tacaccctca ctgagaacgt ggcccggatc 240
ctcaacaaga agctgctgga acatgcctta aaggaggaga ggaggcaggc tgcccacggg 300
cccccgggtc tccacagtga cagccactcg ctgggggaca cagccgagcc agggcccatg 360
gaggaactac cttgttctgc actagctcca tccctagagc cctgcttctt caggcccgag 420
agaccagcaa acccgtcgcc cttcgtcccg ttgggcccca cattccccca ctgcttacag 480
gcttagtcac cccggagacc cgacgtnctt ggangancat ggtggcnaag agcccgcccc 540
aggagcancc acaccgagat gcaaacttgc attggattat cacaagtnta aattcacttg 600
gaattttgca ttaacccccn cccnttaccc ttgnaacaaa aatttttgnc caacagggag 660
gaanatctta nttttttttca anggncaaaa naaatgtttt tttnaaaaac cccaaaanct 720
tgnttnaaat gttnaaacct tgggaaaact tgggaatttt t 761

<210> 2604
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 2604
ggggnttttt naccacgctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gagaacggtg tctggtggag aagagctgag cttccctggc cccttctgaa atggggtcag 120
gaaggggatc angagggnna ttntncatgg tgttcctgcn natangtatt tctttnnctc 180
nctnatctct ctnagtcatn nctcagtcaa ccacatatat taagacctat gcacagaaca 240
attctattcc tataaaattc tataaaatgc anactanncc ataatgacaa aaanaatatt 300
actggtttcc tagggatggn atgtnngcaa agagagacga cagatgnang nattaccaat 360
gagcacagng ganacttntg natgcangga tatgctcatt gtccttgact gctgatggtt 420
tnacnaggtg ggcccaaaac tatntcaaac ttttcacttc atctatatga ccanctgtca 480
tatgccaatt atacctcaat taatcctgat taaanncatt tanngntatc tctactngta 540
aantttaaaa ccnctttta cnttaccncn cctgtantca ntcatgtngc cnttcctnaa 600
aaacttccca anngtatttc tancnataaa nnaggctttc tnnntaaccn anttnnacct 660
tccnttngnn natnctnnnn naccttattn cttaattctt ctgaaanaat tcaacntant 720

attataccta tttnaaancc ttctnccaac ttctttantn nnngcacctt tcttctcntt 780
ataatcccan cnanncncg 799

<210> 2605
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2605
gggggtntct aatgcnggct acttgttctt tttgcaggat cccatcgatt cgccgtcttc 60
gccaaggccc cgcccgagcc tagttgttct ccccctgaat gtgtagaacc ttcctttgaa 120
atttcttaat cggtgcattg aggtttccac atctttttcc aagcagtgcc ccacttcatg 180
gatttatagc tatagtctat gcagtcgtta cctctttttt ttttttaag aaaattgaag 240
attggggtgg tggaggcagt agggagatgg gattgggcac ctccccgtg ctggggcctg 300
gatttttgta aataaatttc ccaagcgttt ctttccacct ggagggaaag gggggacgc 360
ccccagtgag attcaaatca cgcatctcta ctcctctgcg tgagtgcgtg tgtacatgtg 420
cactccccac cctgctccct tcccagaggg attgctgtga aatttttttg gtggcaaata 480
aagataaatt tcattctgtt caaaaaaaaa anaaaaaaaa actcgagcct ctagaactat 540
agtgagtccg tattacgtag atccagacat gataagatca ttgatgaagt ttggacaaac 600
cacaactaga atgcagtgaa aaaaatgctt tatttgngaa aattggggat gctattgctt 660
taatttgnaa cccttntnag ctggaattaa ccaagttanc accaaccaat tgcnttcatt 720
tttatggtt 729

<210> 2606
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 2606
nnnagnggng gnnantnnnn nnnttttgna aagncgttgc tacttgttct ttatgcagga 60
tcccatcgat tcgaattcgg cacgagggtg aacaaaaatg gcccagattc ttattcagaa 120
accaattcac attttaaaaa tatatactgt acactacccc atcctcttcc taatagctaa 180
agtgatctac cctaaaacac caagcagtcc ttcttacagt ttgttccctc ctgacagttc 240
attgattaca atgtgaaagc accaacctga gctaaaatga aatgagaagc ctgatgtttc 300
aggcaccaag tactttaaaa atgtctactg gctgtcctgc agcattttac ttaatcattt 360
tttagaggag ggatgaggac tggttgggta aaggaaatca tcaaatggag ccttaaataa 420
ctgattacaa aagctttttg taaaatcaca caaatatttc aagaataaat gcattccaga 480
gatacaaatc aggccaaaag aaacaaaaat caatgaaatt ggcattacac ttgtaaaagg 540
ccaaatggac acaagccctc gagcctctag aactatagtg agtcgtatta cgtagatcca 600
gacatgataa gatacattga tgagtttgga caaaccacaa ctagaatgca gtggaaaaaa 660
atgctttatt tgtgaaattg tgatgctatt gctttatttg gaccattata agctgcaata 720
aacaaggtta acaacaccaa tggcttcatt tatgtttcag gnt 763

<210> 2607
<211> 740
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2607
aggggnnnnn ntttntnagg gcagntttnt nnatacangc tacttgttct ttttgcagga 60
tcccatcgat tcgaattcgg cacgaggctg tttgtgcaaa taccttgaaa actttgaaac 120
ttgaccccgg acaggcctgg tgccaggtcc tttccgactt ttgtgttttc tttccacctt 180
tcactactga ctttgcctct ttcctaccag gaatggacag ggccgatgga ggtgaagcgg 240
acagcagctg cactgccctg tagagattcc caggccctgc ccacttcaaa gcacacaagc 300
ccacctcttc ctcatcacat ttccctttgc aacccaggga ggcactcacc aggatgctgc 360
caagaaggaa acattttatt aacatgtttc tttgtttccg atgcacttaa aacacttggg 420
cctcttgacc aagtctagtt ttaggacttc aaaggggcgt tgaaagccac attttgatga 480
ctttggtgta aaatgagtag ggcatatcgg gatttaattt cccttgaaag ttgcacagac 540
ttaaaaatta gcagaatagg ctagcagaat angccggatg ccgtggctca tatctgtaat 600
ccagcacttt gggangccga ggcangcgga tcacctaagg caacagttnc anaccaagcc 660
tggccaacat ggtgaaaccc cctcttacta aagatngaaa aaattaanct gggccgttgt 720
ggtgcaacct gtaatcttac 740

<210> 2608
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 2608
gcggnnnntc ttcanatgnc ngctcttgtt ctttntgcag gatcccatcg attcgaattc 60
ggcacgagtt catttttaaa aagcttctcc ttattatgtt gttgtttaac aacttaaacg 120
ctatctctag accaggaata attatttgct atatattaca gcaaaaaata tgtatgtata 180
aatggactca ttcaaaatat ataaagaact cctattacaa agaaattgac aaacagccca 240
gtatatcaat gaatataaaa atttgagaag atattttcca taagaagata tctaaatgaa 300
cattaggcat gagaaaacca aattttagga tatcactaca cacctggcat agtttaaaag 360
actgaaaata ttaagtgtgt gggaatgtag agcaactgga aatggcctac atctttcata 420
gaaatgtaaa acaatacaaa tactttgcaa aactctgtcc aacattttct acccattcac 480
caagcaactc catccctagc tatagatacc caggaaaata agtatgtatc ttcacagaaa 540
taattgnatg agaatattca tagttcttat gcacagtagt tatcaagtaa acctgtctnc 600
catcagaaaa atggatatca aatggggtga taatcatnca atcaatagga tattacttgg 660
ccaaaccaaa tgaaacaagg gaaaaccaca tcaaccaaat tagtggcntn tttncccc 718

<210> 2609
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2609
ggcagctctc taatgcnngc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagcaaa gtactgggat tacaggcatg agtcactgag cccagcctaa taaagaactt 120
tctgacagtg aaaatggtct gtgcatggtg tgggtggggt gagggtgagg ccgggcgtgg 180
atggagcagc agggaggttg tagacaatgt ccagacatca gagagagggc tgggctctga 240
tcctgtgcca ccctgaaagg ctttgatcct atggtttggt cagaaacaga gcctgtaaaa 300
cccatgtatg cagctgttgc taagggcaac cacaagatgc tcaaaggacc ttaaagatgt 360
agatgcagtt agttacctga agaagtgaaa gtagaagtga agtcttttct aaaagaaaaa 420
ccacagacac aatggcaatc tggggagaaa gagagcctgg gattgggaga agatatccag 480
gcatttagct ctctcttccc cccatattta gtgtgacata tttattgtga ctttataaat 540
tctttttta attttaattt ttattttaat gtttgtgggt atgcagtagg tgtatatatt 600
tatgggacac atgagatatt ttggtacagc aggtgtttat cttgaccgac gtcttgnctc 660
tactgcctgt cccgntctta acatccttct ctttctactc cccttacccc gtntt 715

<210> 2610
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 2610
gcggnnttnn ttctaatgcn ggctcttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagat ttaaatagtc tgtctttaag agtagctctg agatttttt ctggtaaatc 120
actatttaac ctctctgatt tgtttagttt ttctcatcta taaaattgaa atgataaaat 180
gaaggttaaa ttagaaaatg tagaaaatgc ctagaacaga gtcttgcata tggttggtac 240
taaagtgttt tgttccccat ggatagtatc ttctcttaaa gatcctttga aagggcttta 300
aagtgaacct tgtaggatgg taatttttgt tcattttaat ttttttagta agttttgatt 360
gagatcttga atttcattta gaaaatttct gctaagcaag aagcagtgga aaaattacag 420
gaaaagctgt ctagacttga ctacatagaa attataaatg tttgcatatc acattgtcaa 480
aaaacaaaat taaaagatat tgacatgaaa atatttgtat gtgggcagaa aaaagtttaa 540
tattcttaat attaatgagc tcttagaaat cttaaaaata attaaacatt tgatagaata 600
atgaacaaag gacatgaata ggtggttcat aaaagaaata taaatagcta ataagcatat 660
gaaaatggtg tttagcctag gataatcaaa gaaactcaaa tccatctttt ggttggcaaa 720
ttg 723

<210> 2611
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 2611
ggggactctg ttctnacagc tacttgttct ttaggancca atccangagn aatnngnccc 60
gancncagnc cnnaatnctn ttttccgcnc ctgggtncnt cacttcctng cggaanagac 120
agnnatttte nnggntncat tcntatgaaa ncanggnntg gnntgaaaat gtcttnccag 180
ntncaacagg cnatnaacac atgcctaaaa gatcntgtaa ggggtttcag nacacgacga 240
gtcctctagc gctttgtgtt cacaccttta ctccatgatc cgtggaaacc ggccaacaca 300
gacgagcctt ncttattnct nntactcagc ctctttgatg acacancaga ancagacgtg 360

actatgctct cgtatatatg cagacaatct angcctgttt tncataccag acncaggaag 420
aagcccgttg ttataatgca tcatatatac attacactct nnagtttctt ggnagtcacc 480
tactgcagtc atttcaaggg agnctnatgg gtaaaggnnc ataaaggaaa ngangaggaa 540
aantantcnc ctantannng gaaaattgag tcnangctga caggtgnnat angaaaantt 600
ttncnaggcc tttgggaang tcaccgggaa aaccgtggtt ngatttncag aatttccana 660
atttccggaa tttcangaat gaaccgattt ttaaaattcc agtngnttgn aaaatggttt 720
ttgnccngga aaaaatttan nttcccnttt taaatccgna atttttcaaa antgntnttn 780
cccaaggggn cattttnaaa taaccnttnc tcaan 815

<210> 2612
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2612
gngggnnnnn nnttttnnan ngcgtntata gcnggctctt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga ggccagcttg acctggttgt gggcccgttg ggcgagaatg 120
aagctncact gtgaggtgga ggtgatcagc cggcacttgc ccgccttggg gcttaggaac 180
cggggcaagg gcgtccgagc cgtgttgagc ctctgtcagc agacttccag gagtcagccg 240
ccggtccgag ccttcctgct catctccacc ctgaaggaca agcgcgggac ccgctatgag 300
gtgcgtgaag tgggcaggcc ctgtcagtct cgcgttcttc ttggaagccg agacgcgggc 360
caccctcggt cctcatgctc ccggctgctc cctaggcgaa agcccgcctt gggggttcct 420
gaactcccag ccttgagacc taccatcagc ccgaccccan ggtcctgtgc gtcttcctac 480
ggacccgaaa gaagaaagct ttgagagtgt acctttcgc tatttttcct cccactttta 540
cgactttgaa tttacagtgt tgctatttag tagtggatgg caatcccgcc tgtttcaagt 600
ttctgaaatt ttgcgtgaaa caagcgcaaa tgaagcaact tgtccagttg gggaacagta 660
aaataactgc agttcttgtt caatgaaaaa aaaaaaaaaa aaactcgagc ctntagaact 720
atagtgagtc gtattacgta na 742

<210> 2613
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 2613
ggngcgtcta tgttgctctn gttcttttgc aggatcccat cgattcgctg gatccagtcc 60
aggccagagc ctcctctgca gagaaggtac taggtgccca tgcacagggt gactgccagc 120
ctcgtggagt gggggcagtg gtgtccctgc gggcgggctt ggtcttctga ggccatgtca 180
gtgccacccc agggccgccc tccatggcag tgtggggcca acaagcctgt cttcccattt 240
ttctgagaga ggctggaaat cctgttcttt ttatatataa agtgtttcct tttcaaaata 300
ttggcaacta agtaaatcca aacaaagtat gggccaaatc atggcacact cctgccccac 360
aggtggccct ccagctaaga gtcatgttta caattttaga ggtttggtgg gctccagtgg 420
gaccacgcct gggggtggag tggctgtggg tgaaccgtgt ctccactccc acacctcgcc 480
actgagaaga cagagcacgg gatcgtgaca gccgagctcc accgccttca ctagtcactg 540
tggcctgcag gggctgncag cctctgattc aagagccagt gggccgccga ggacacactn 600
ccttccttcc ctgcctgggg tcctgtgcnt ttgagctgaa actgttctng gccttttctg 660

aaaaggatng tagaacgccn gantggcatt ttantggtga atgggccttt gcaggaacac t 720
721

<210> 2614
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 2614
ggngttttat agcngctctt gttctttttg caggatccct cgattcgaat tcggcacgag 60
cctaggcttt accctcaata ctgcttctgg cnngnccaan cngtctntnt ccngtggctc 120
tgngtgatgt gactngtcct cttctccaag gcagtattac tcataaattc ttctttagcg 180
gtactgatct atctgtgtca tcgctcagtc aaccacatat attaagacct aggcacagaa 240
caattctatt tctataaaat tctagaaaat gcaaactaaa ccataatgac aaaaagaata 300
ttagtgggtt tcctagggat gggatgtggg caaagagaga cgaaagaagg agggattacc 360
aaggagcaca gggaaagttc gggatggagg gatatgctca ttgtcttgac tggtgatggt 420
tttacaggtg ggccaaacta atcaaacttt acacttcatc tatatgacca gctatcatat 480
gtcaattata cctcaataaa gctgtttaaa aacatttaag ggtatatcta ctggaaagta 540
aaactgcttt taattacnag actgnatcat catgtgcata gaaaaaatcc aaanggattc 600
ttccaaaaaa agctactaag aaccactggc cttcatcgag atgccaggtn caaaggttta 660
atattggaaa atcaactatt atttcctatt tcaaaagcca accanaanaa naaannnann 720
nnnnnnnnnn nnnnnnnnnn n 741

<210> 2615
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2615
gnttggnnnn nnttttttnnn ancgcntttt tatanataca ngctacttgt tctttttgca 60
ggatcccatc gattcgaatt cggcacgagg gggcccccac gcaaactcaa attccctgag 120
cctcaagagg tggtggaaga gttgaagaag tacctgtcgt agggagattt gggtagaagc 180
cctcatgctg agctttgtgt ccctggtgat gttggaacat taatgatgga acatggccaa 240
acttcagtca tgatcctgaa accatggctt caggatcatg actgaagtca tggtttcttc 300
cctgccagaa atgaaggttc agttatgagg caaccctcta gtaaggcatt gtaaaagtta 360
ctggatttgg tttaataaaa gttgaaataa agtanaaaaa aaaaaaaaaa aaaactcgag 420
cctctagaac tatagtgagt cgtattacgt agatccagac atgataagat acattgatga 480
gtttggacaa accacaacta gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga 540
tgctattgct ttatttgtaa ccattataaa gctgcaataa acaagttaac aacacaattg 600
cattcatttt atgtttcaag gttcaagggg gangtgtggg anggtttttn aattcgccgg 660
gcncngcngc caatgccntt gggccccggn ncccagcttt tggttccttt aatgangggt 720
taaatgcccc cttnggcgta atcatgggna ata 753

<210> 2616
<211> 722
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 2616
gnggggnnnt tctaatnnna ggctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg gtaagtaacc tgtgcagagc acagaactag gattcagacc tacagaccca 120
caagtcagcc tctaaggccc acttataact gctctttctgc ttgcaaggcc ctatggatga 180
aatccagtta taacctcctt ttgctataac tagacacaga gggaggcgtt tctccctaat 240
ctgtatttat ccagacaagc tgtccagcaa gatttctgag tgaggggctt taaggaagca 300
atctgcgggt gtgtagcctt ttctccctca gcaaatacag aaggagctta tagcccgggc 360
tcaccctgct tcagaacaag ggccaacatc tgtccatacc cctgttatag tgagatggga 420
aaccttgtag atgttggcac tgtgtggctc ttttctttta tatactgggc tttagggtca 480
atcccattta accaaagggt tcaatagcta taaaaaggcg ttgaaattgt atggttattt 540
gagttatagc tcagtaaagg cattaaatct tcagcctaga tgaccctatt ccttcccact 600
ctaaccagct gtgactncag atggagacat tgnectgcat cctctacgtn cccatnccca 660
catnccancc agaaacaaat gtgtgaagtt tcataccaac aagaatgggg gggtaggaat 720
ca 722

<210> 2617
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2617
gnnagnnnnn nnnnngnnng ntttnnaaga ncagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga gggaaccccc accattaagc taaagtaaaa ccctttgag 120
ggaagaggga gactggggag aagggaaaag agagaaggca gggagagtag ggagagaaaa 180
ccttccagca gcccagtaaa ctgcgggcga agagatctac ccgtctccct ccctcccaca 240
gttaccattg gccttgtcat cgcaagcatt tgacaaagac ttgcttgtct tgggcctgtc 300
acctcctgaa aggctgcttt agctgtggat gcccttgatt aagggagaga gcgcctagga 360
gctgcctgcc ccagctgggg tgacggctgt agggctgggt ctatgttgca agccctatat 420
cctagcatgc agtggaaagt gcttagctct ctccctcctg acctctgggc agccagtcat 480
caaagcagag agacgtggcg gcatgtgggc agcatgccca ggttccttgc tgactcagca 540
cttatttctg tagttttaaa aaagaattta atgtttttgg ttgtattttt ttgggggggt 600
gagggtgggc aaaaacatgg gggtagttct gagttgttag aaatgtttct tgaatcaaag 660
tttgtttgaa gacacctgtg cctttgtacc cattataaga tggtcattaa gacccaagaa 720
actgataact ttggnttttt tt 742

<210> 2618
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2618
gggntttaan nncnntttnc naannagnna gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagga gaactccaaa tagcccaaga gggtggtgca cccccaactt 120
cataggggta gaggctcctg agattaggag aaccctttt aggctttact ctatgtacct 180
cttcatttga gtgttcattt gcgtccttta taaccagtaa aacaaagtac gctgttttct 240
tgagttttgt gagccctgta gcaaattatc aaacctgagt agggcagtgg gaactcggaa 300
tttatcacca ttcagaactg caggttgtcc ttgtgagtgg catctgatgt gggggaagtc 360
ttggactgag ccccttaact tgtggagtct gcactaattt agactgcact aactaacttg 420
cactgcacta acttggactg cactaacttg tggagtctgc actaacttgg agaagttagt 480
gtcagaattg aattatagaa cacccagttg ttcagaattg aattgtagaa cacccaattg 540
gtgtgggaga attagagaat ttatttgtgt cagaaaatac tccagaacaa ccaccccata 600
ttatgattag ctcttttcct ttctttggct ctgagcttaa ttgtacatta agcaaactta 660
agtagaaaag aaactgaata tgttaaatat attaacaaca tatttggact tgcttaactt 720
aagattatng agatgatcag ttataaaacc ccc 753

<210> 2619
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2619
ggnggntttn tanntncttn nctaantagg agctctngtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagat gcagtgtaac tggcaggagg ggagtgagaa ctacttgggt 120
agatgatcag gagatactct gcaagaggaa acatacagaa ggagcctgac atgagaaaac 180
tggggcagca gttttccagg aagagggacc agcacaggtc caagttgaaa ctcagaatgg 240
aattttagga aattatattc ttcatgatgg ttagatcctg tgggctatca tcactgcagt 300
tcaacaatgt ggtgcctagt aggaagagtt ctcccaggaa ccctccacgt gtgctatggg 360
atttctgaga aaaccagttc tgagttctag gcagtggact cacagttgaa cttggaggga 420
accaagaatt gcttccatca tagccttact aagaaatgac catggcatgg cctgagtgct 480
tcggcatgga ngaccagaan gggaagccct aatttgccag ttgcagactc ttgagccttg 540
tgactctaat gacgacnaaa attaggagat tttctaggac tcacgtttgc gattttgaga 600
gtagtgctgc tggggttcct ggtttgggtt ctattgattg tttcattggt tctgtgtgca 660
agttaccctt ttctaagctt aattttaatt aatattatat taagtgaggt aattagatta 720
tatgaaccct aangcttcct tttattctta accctta 757

<210> 2620
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2620
nggaggtatt nnnnnnnntt tncnantagn nngctcttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg ctctgtgaca ccctttttgt gatcttcagt gctgttttta 120
tggttacacg actaggaatc tatccattct ggattctgaa cacgaccctc tttgagagtt 180
gggagataat cgggccttat gcttcatggt ggctcctcaa tggcctgctg ctgaccctac 240
agcttctgca tgtcatctgg tcctacctaa ttgcacggat tgctttgaaa gccttgatca 300

ggggaaaggt atcgaaggat gatcgcagtg atgtggagag cagctcagag gaagaagatg 360
tgaccacctg cacaaaaagt ccctgtgaca gtagctccag caatggtgcc aatcgggtga 420
atggtcacat gggaggcagc tactgggctg aagagtaagg tggttgctat agggacttca 480
gcacacatgg acttgtangg ccactggcaa catactcctc ttggcccttc ccatatctac 540
tcttctgtga ttgggagact gcaaggcact gangagtatc aaagaagcaa atattttcac 600
tttgaaagaa aactgccatt ttgtatttaa aaaaaaaaaa aaaaaaaaac tcgagcctnt 660
aaactatagt gagtcgatta cgtagatcca gacatgataa gatncattga tgagtttgac 720
aaaccacact agaatgcatg gaaaaaatgc 750

<210> 2621
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 2621
gnnngnnnnn ntangtggtn ttaagnnntt ttnnaatgna gctcttgttc tttntgcagg 60
atcccatcga ttcgaattcg gcacgagggg actacagctg tgtaccacca caccggcctc 120
tcctggcttn ttaaccactt acattanaat tgagaggana aaggcagttg acaggggntg 180
tantnaatna ctngaacnca ttcanngagg anttttntnc ntggccntna tnagtncnnc 240
tattcatcna ntntaatgnt gancnntacn nttgntncaa agccntnnca atcntaaacg 300
ncatncttan atangtatnn tcctactgcn gcatngagca gntcatnaca tcagatacag 360
attctcagca tggaaaacaa agctnggata ctgtgtcant gctgctctgt ggcaaagaac 420
acctnccttt ntaagnnaca gcctcactct actagaatan gtcngagcgc gcccattcat 480
ggctgattgc aacttccact ggctgggatc cagatctaga atntgtgttc agatgcctta 540
cntaggaata catnctaaca cattcttaac aggtttcaag gggagatant tngcgatagn 600
acgtagttta tgcttnagtt atatgtgtct gcatctgntt ttganggtaa acggcttaac 660
ccnttantta gggtngttta nagaattgat gngtaaataa cnttgatgna aaagtttcan 720
atggacnttt nnantttgcc ttnaanngtg gatatnggtc tattgcccan ngggntaatn 780
nngaaatanc g 791

<210> 2622
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2622
nggngggntn nnnnnnnntt ttcnaatgct agctcttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagga aaaaggaaag atggatatgg aagaaattat tcagagaatt 120
gaaaacgttg tcctagatgc aaactgcagt agagatgtaa aacagatgct cttgaagctt 180
gtagaactcc ggtcaagtaa ctggggcaga gtccatgcaa cttcaacata tagagaagca 240
acaccagaaa atgatcctaa ctactttatg aatgaaccaa cattttatac atctgatggt 300
gttcctttca ctgcagctga tccagattac caagagaaat accaagaatt acttgaaaga 360
gaggactttt ttccagatta tgaagaaaat ggaacagatt tatccggggc tggtgatcca 420
tacttggatg atattgatga tgagatggac ccanagatag aagaagctta tgaaaagttt 480
tgtttggaat cagagcgtaa gcgaaaacag taaagttaaa tttcagcata tcagttttat 540
aaagcagttt angtatggtg atttagcaga acacaagaag agcaagaaaa tgtgtcacat 600

ctataccaaa ttgaggatgt tgagttatgg tactaatgta tgcaacttta attttgttta 660
acactatctg ncaaaattaa actttattcc ctataacttt aaaatgngta tatatatatt 720
aatagtttat ttatgtacag gttnaattct actgggtttt ggcng 765

<210> 2623
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2623
ntnggnnnnn ntttnnnngt nggtttttag atcagctctt gttctttntg caggatccca 60
tcgattcgaa ttcggcacga ggattcattt ttgtactagt taatatcaac tctttctcag 120
aagtagtcaa aatataaata aaagttcttc aaaagtaacc caggagcaac agctgagcag 180
tgccagagtt gtgaggtaaa catcaatcat ttcacaaatg ttctgacttg ttgagcagtg 240
ttcatttcca ggtttcaaac ttaaagtatc tattaagcaa tcttaaaaga aagaacaccg 300
ccttaggaaa aaagagattt gccaaactct tcatacttcc ttcaataact gcttagcaaa 360
cactcttgag tgtcttctat gggcaatggt ctgtatccat agggatacag agatgaatga 420
acatgaactt ggaaaaaatt attatacaac acaaagtagg aaaacggtgc acaaagcata 480
aagaaattag cggagggagg gattgtttga tggaaggtct tagggagtag gtgggatttg 540
aatttgggtc ttggatgggt aaagtaaggt agggcagcag ggtgggcggc aaaaagtggg 600
aggttacagt aagtagaatg gtcaatagcc tattttgact gaagtaaggg ttaaggcttg 660
ttgggagcct gatgatagat ggggatgctg taaactcact gggatgtttt ncaaaagaga 720
acccttaaa aactgcgtnn aggagcn 747

<210> 2624
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 2624
ggnggnnttn tttatntata cangctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gagagcgagt ctctctttgt tgcttaggtt tgtcttgaaa tcctgggttc 120
aagcaatcct ccctcctcag cctcccaaaa tgctgggatt acaggtgtga gccaccacac 180
ctggcctcta ctttcttata tttccttaaa tagatttcct ttctttttgg attaagaaaa 240
aataaacaga aaattaaaat ttgaacatat tataaaaatg aaagataatt gtaaaatctt 300
ggtttggaga gtgtctctct gagcccagaa atcatccaga aaaatggaca gatttgactg 360
catcacattt aaaaacttta caatgatgaa aaatacaagt gaagctattc atacaataga 420
ttaggaccaa gtatttttaa catgtattat agacaaaaaa ttaccatcca aaatatagaa 480
ttgtacaaaa attttaaaaa catggttaaa aaatgggcat agggatataa cccggataat 540
tcacaggang gaaaaaaaat ncaaatggcc caataaacca tgaaaanggt ggttggtaag 600
gctggggttg aaggtgggct tcacttccta ttanttttcc aaccactttt ggggaaagcc 660
caagggaaaa aagggattgn actttgggga tcanggcttc gaanccttt agaacctttt 720
ggtggagtcc gnanttancg tnngatcccg gaccttggat aaggatccca ttgg 774

<210> 2625
<211> 746

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2625
gngggggnnn nttttnnaag gcgcgcntnt tctaatnnna gctctctttt tgcaggatcc 60
catcgattcg gaaaatggta tctttcagat ttctagaagt tcaagtgtca tacaacaaaa 120
caggaacccc ctttactctt atggacctca tttcaatata ctgtttacag tttgatggaa 180
ttgtataatt taatatttct cttgtactgt agtttatatt tatttacaga tttttttgta 240
ctgtgtgatt tgaacttttt gttccttgct atgatcaatg tttatgtagt agagcactta 300
tgatcacaaa ttaagttttt tggtttgatt gcactacatt aaatttttta atgcagttct 360
gatttttgac tggactaaaa ctgtgtctta atgtatgtga tgagtactta aaatttaat 420
ccatgtggtc ccccccctt tttttttgc attgtatgnn aaaagcgctt ggtctttcgt 480
gcatgtgtan tatntaatgg tacccattgn ntagttgacc atgacatttt tgganaaaca 540
ttncagctgn nangttgngt atggnngctc actggatgct anacttttn aaatncnaat 600
tnntntaaat aanannnnnt tnngaantan tnnntntntn nnnncncnnn nnancnntnn 660
nnccnttnnn nnttntnnnn nngaactnnt nncnnnttcc ctgntttann nntnnnntnn 720
atngcnnttt ntacnccnct tnntcc 746

<210> 2626
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 2626
gnggnnnnnt ttatanatac agctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg ctgggagtat aggctgagtt aggaagattg cttgagcccg gaaggcagaa 120
gttgcagtga gccaagatcg cgccactgca ctcccaactg gacgacaaag cgagatactg 180
ggagtatagg cattcgccac cctgggcaac atagcaagac cctgtgtcta caaaaaattt 240
aaaaaaaatt agcctgtagc cctagctatg caggaggtgg aggtgggaga attgcttgaa 300
cccaggagtt tgaggttaca gcgagctgtg atagcaccac tgcactccag cctgggccac 360
agagcaagat cgtacctctt aaaaaaaaaa agaaaaacac aagcaaccaa aaaaaaaaaa 420
nnnnnnnnnn nnanaaaaaa aaaaaactcg agcctntaga actatagtga gtcgtattac 480
gtagatccag acatgataag atncattgat gagtttggac aaaccacact agaatgcagt 540
gaaaaaaatg ctttatttgt gaaatttgng atgctattgc tttatttgta accattntaa 600
gctgcaataa acaagttaac aacaccaatt gcattcattt tatgtttcag gttcangggg 660
gaggttttgg aaggtttttt aattcncggg ccgcggggcc aatgcattgg gcccggtacc 720
caattttt 728

<210> 2627
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)

<223> n = A,T,C or G

<400> 2627

ggngngnnnn nttctnaata gcnaggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagcagaagc acaggcaagg atcaatgccc ggcttcagca gtatcgtgcc 120
aaagcagaac tagctcgatc taccagaccc caggcctggg ttccaaggga aaaattgccc 180
agaccactca ccagcagtgc ttcagctatt cgtaaactta tgcggaaagc agaactcatg 240
gggatcagta cagatatctt tccagtggac aattcagata ctagttctag tgtggatgga 300
aggagaaaac ataagcaacc agctctcact gcagattttg tgaattatta ttttgagaga 360
aatatgcgca tgattcaaat tcaggaaaat atggctgaac aaaagaatat aaaagataaa 420
ttagagaatg aacaagaaaa gcttcatgta gaatataata agctatgtga atctttagaa 480
gaactacaaa acctgaatgg aaaacttcga agtgaaggac aaggaatatg ggctttacta 540
ggcagaatca cagggcagct ttgaagatgc tttatgtgaa aagaatgtgt gtggcttgga 600
tcctaaagaa tgttttaaaa ggtgagaatt agtantcgcc tntgggagga tcagcctttg 660
gtcctgttaa tagaagttga atatnccggc aattttgcga gcccccaagg nggagaaaac 720
caagttaa 728

<210> 2628
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2628

gngngncctt naaatcncng gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagga ggattagcca tgctggggtc tcttggacaa aaggctggta ctgattgaaa 120
aattccctga gtatgtctag aagtgtcagg ctcctctgga atcagttaca gtgggattgg 180
ctgcttaggt ataatcttta taagattaaa aattatagat tatttggcag cttgtttgaa 240
agtgttggtc ccaagaaaaa gttctgctgt gtgttatggc agaattatta aaaaaaatac 300
attcttaagt tgaggtttct aagtaggctt ttgtaaaaac aggcaattac ttgctggagg 360
cagttaattg catgcacaga tgggtacttg tgttacaaat tcctcatttg cacttgtgat 420
tacccatttg caataattca tgaaacctag ggaattctta ggtacaagga aaggttttag 480
gcatttaaaa aacgtatcac taccatcaga ggagatggag aaaacaaaga gctaagtata 540
aagccttatt ccaaatgcta agttcagaga atattttctg aagctcgcgg ttgttgaagg 600
taagaggttt acttaagcta ttggttccat ggactctntt cactttnaaa aaaaaaannn 660
nnnnnnnaaa aaaaacntng agcccnttan aacttntngn ggagtcntat ttccgtnnaa 720
tccnnaacnt g 731

<210> 2629
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2629

gngtgnnntt ttnagataca ngctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg gggtatccct tgagaccacc ttgggaccag tgcttgcaag cagcgagata 120
tttccccagc aaaaccaggc agctgctaat taaatgctta gaaccaatga aagctggctg 180

tggtcctgcc tgtgagctgc ctactgctgc cttctgaatg catatatctg ctactgtagc 240
cccgggttgt caaactatgg cctgtgggcc aaatccagcc acagtcggtt ctttaaagtt 300
ttatcgaaac acaagcaatg gaaatgccca tttccattgt tgtctccagt tgctctgctc 360
cgagggcagt gttaagttgt gcagcagagg cccctccatg caaagctgaa tatgtttact 420
atttgaactt tttcagaagt tctgcttaag gacaaaataa agcctaaatc caagaacact 480
tttaaaaatg aggaaatagt gaacacaata gacggaagtc tggaagtttc tacccatgcc 540
aagaaaagca ttttatgttt ggtcacatat gttgtgcaat tcaaattttt ttccctatat 600
tctctgacta gacacttgta ctgagtcaat tggcgagtgt gtctgtctaa aagcccaatt 660
tcaaaatatc actttaaagg catctttaca tagtggggtt taagaaaaaa gttgttattc 720
agcaana 727

<210> 2630
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2630
ggnggnngtn nttcnaatgc naggctactt gttctttttg caggatccca tcgattcgct 60
tttttaagca aagcagtttc tagttaatgt agcatcttgg actttggggc gtcattctta 120
agcttgttgt gcccggtaac catggtcctc ttgctctgat taacccttcc ttcaatgggc 180
ttcttcaccc agacaccaag gtatgagatg gccctgccaa gtgtcggcct ctcctgttaa 240
acaaaaacat tctaaagcca ttgttcttgc ttcatggaca agaggcagcc ggagagagtg 300
ccagggtgcc ctggtctgag ctggcatccc catgtcttct gtgtccgagg gcagcatggt 360
ttctcgtgca gtgctcaaga cacagcctgc cctagtccta ccagctcaca gcagcacctg 420
ctctccttgg cagctatggc catgacaacc ccagagaagc agcttcaggg accgagtcag 480
attctgtttt ggctacatgc ctctgccggg tgccggtatt gaggcaccca aggagctgnt 540
actggcgtgg aaataggtga tgctgctacc tctgctggtt nactcacaag ccacacttga 600
tacacgatga caccttgctt ggttgggaaa catnttaaac atctagtnna tgacttgcag 660
gctgntggct accagtttcc tgtcttgaag gggtaatatg gttaactttc gggancaggt 720
tggaatgtnn g 731

<210> 2631
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2631
ggtgttatan nnnnnnnttt tcaaaganac agctcttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagat tatttaaagc ttattcaatt taaaagacta cttgtaattc 120
cggacttatt ctttgaatag ttggtattaa ggtttctttt gtaaaataag aggtggtagt 180
atttttcaat gcccttaatt aacaaaatta aaagtttgaa aaccatatgt tgattctccc 240
tcattttaaa aaattttgta attccactgg tccacaaaaa tcccaattga ggagagctct 300
gggaagagca cattctgtca atgggtctca acattttggt ctcaggacca ctttacattc 360
ttatttagga aatgacctaa atgtctttca actagtgaac gaataaactg gtacatctgt 420
gtaatggaat actacttcac aatcaaaagg aatgtactat tgatacacac agctacatgg 480
gtgaagctca aatgtattat gctgaatgaa agaagccaga ctcaaaaagc tgcttactgn 540

tatgttctat ttatatgaca ttcttgaaat gacactactt agggatggat aatagattag 600
tggttgccag gagttggggt agtggaaggg gtttactaca atggantggc ataagggaaa 660
ttatttgggg tgttgaaact cttaattggt ggntacataa ttctatgcat ttggcaaaat 720
tcatggagct gcacacccaa aagagtgaat tttntcc 757

<210> 2632
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2632
tgnnnnnntt tttnnaaggn gcnnnncntt naaatnnctg gctacttgtt ctttttgcag 60
gatcccatcg attcgctaaa gccggctatg ggaagccatg tcatacttgg ctaccttcct 120
atgttccttc tcacagcaaa actcttggac tgatcatttg aagtcacccc tctgtgtctt 180
cttgtgaaat ggcttgggcg tctctgggct ctgacttgct catctgggaa gagatggggt 240
agagggagtt ggattataaa tcatgcttca ctcagtcaac agaatgctac tcaggcacta 300
aaaatgatgg cgtagcccta cgtattctga catgggaaga tggccacaat atcttattat 360
gtggaaaaaa ctagttgcat aggatttatg gtttgattac attttagtaa aataaattca 420
tttatggtgg tatatgcaaa gaaaaaataa tgccgggcgc agtggctcac gcctgtaatc 480
ccagcacttt gggaggctga ggcaggtgga tcacttgagg ccaggaggtt gagaccagcc 540
tggccaacat ggtaaaaccc catttccatt aaaaatacaa aaattagcac caagccgtgg 600
tggcacgtgc ctgtagtccc agctactcan gangcttaan atgggaaaac ttgcnttgaa 660
cctggaaagg tggaaggttt gcggtgaagc ccaagaatca cgccanttgg acttncggcc 720
tgggcttaca agcccanact tttgcttnaa aaaaaaaaaa a 761

<210> 2633
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 2633
naatngcnag ctctngttct tttncggatt annaagcctt agcaggcngg gaagatgaaa 60
ggtagccgga tcgagctggg agatgtgaca ccacacaata ttaaacagtt tnaaagattg 120
aatcaggtca tctttccagt cagctacaat gacaagtcta caaggatgtg ctggaggttg 180
gcgagctagc aaaacttgcc tatttcaatg atattgctgt aggtgcagta tgctgtaggg 240
tggatcattc acagaatcag aagagacttt acatcatgac actaggatgt ctggcacctt 300
acccgaaggc taggaatagg aactaaaatg ttaaatcatg tcttaaacat ctgtgaaaaa 360
gatggtcttt tgacaacatt tatctgcatg tccagatcag caatgagtcg gcaattgact 420
tctacaggaa gtttggcttt gagattattg agacaaagaa gaactactat aagaggatag 480
acccgcagat gctcatgtgc tgcagaaaaa cctcaaagtt ccttctggca gaatgcagat 540
gtgcaaaaga cagacactga caaattacaa atgaactttc ttgcacttgc ttgtcgccca 600
ataaaagaga ngcccattga ttcttcccca ccccaaaaaa aaaaaaaann nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn annnnnnccc nnnnnannnn nnncnnnnnn 720
nnnnnnnann nnnnnnnnnn nnnnnnncnn nnnnnnngnn nnan 764

<210> 2634

<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 2634
aatcagcctg ntcttttgca ggatccctcg attcgcttga gcccaggagt tcaagtccaa 60
cttgggcaac atgacaagac ccttgtctct ttaaaaaagc aactcaaacc atgtcttgaa 120
aagctattta atggtcagac acgatggctc acgcctgtaa tcccagcact ttgggaggcc 180
gaggcaggcg gatcacttga ggtcaggagt tcaagaccag cctggccaac atggcaaaac 240
ccagtctcta ctgaatgaaa atacaaaaat tagctggcct agcagttggt ggtggcaggt 300
gcctgtagtc ccagctactt gggaggctga ggcaggagaa tcgcttgaat ttgggaggcg 360
gaggttacag tgaacccaca tggcgccact gcactccagc ttgggtgata gagtgagact 420
ctatctcaaa aaaaaaaaaa aaaaaactcg agcctctaga actatagtga gtcgtattac 480
gtagatccag acatgataag atacattgat gagtttggac aaaccacaac tagaatgcag 540
tgaaaaaaat gctttatttg gtgaaatttg tgatgctatt gctttatttg taaccattat 600
aagctgcant aaacaagtta acaaccanca attgcattca ttttatgttt caaggttcaa 660
gggggaaggt tttgggaagg ttttttnaat tcgcgggncc gcggcgccna tgcattg 717

<210> 2635
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2635
gttctngttc tttttgcagg atccctcgat tcgaattcgg cacgaggcca agcctcggcc 60
tccactgcac ctgctgcgga gtgggcacct ttgcctgcaa ggccttttnc ccantgncca 120
atggtanttt aaccagggtt tttgncnntt aaggaggcct tngtggtggg tngttaatct 180
ggccnttccn tattgaaaag ctcctgttat tgtccacaga ccagaaggac ttgtaacctt 240
ggtcccacag tctgacttng gcttttcaag cacccagaaa acttagaggg aatcttatag 300
attccagaac ttaaggatac ctcaagggat agggtcacag ccaagaagtn caaaggaatc 360
ttcagtctgg aacaaaaaca gaacccttтc atgattgaca aangtcactt tctgtttgcc 420
tggaccaagc tactncagat catctgacca actcttaaaa atcacggcca ggcacagtgg 480
ctcatgcctg taatcccagc actttgggaa gcaaaagtgg caggatcatt ncagcccaag 540
agttcaagac cagcctgggc aacacagtga gtgagaccct gctctattta agaaaaatna 600
ttaagaaatt tattaaaaaa gaagaatcag gaaaccaagt ncaacccaac ttaacctcaa 660
tgaaccagcc cctaacacag atgangggat ttgggactga taagctctgt gctgngtcca 720
tggcccgtca nttatcaagg ttgcactttt aaatgnggta tttttatgn 769

<210> 2636
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)

<223> n = A,T,C or G

<400> 2636
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tccactgcac ctgctgcgga gtgggcacct ttgcctgcaa ggccttttnc ccantgncca 120
atggtanttt aaccagggtt tttgncnntt aaggaggcct tngtggtggg tngttaatct 180
ggccnttccn tattgaaaag ctcctgttat tgtccacaga ccagaaggac ttgtaacctt 240
ggtcccacag tctgacttng gcttttcaag cacccagaaa acttagaggg aatcttatag 300
attccagaac ttaaggatac ctcaagggat agggtcacag ccaagaagtn caaaggaatc 360
ttcagtctgg aacaaaaaca gaacccttтc atgattgaca aangtcactt tctgtttgcc 420
tggaccaagc tactncagat catctgacca actcttaaaa atcacggcca ggcacagtgg 480
ctcatgcctg taatcccagc actttgggaa gcaaaagtgg caggatcatt ncagcccaag 540
agttcaagac cagcctgggc aacacagtga gtgagaccct gctctattta agaaaaatna 600
ttaagaaatt tattaaaaaa gaagaatcag gaaaccaagt ncaacccaac ttaacctcaa 660
tgaaccagcc cctaacacag atgangggat ttgggactga taagctctgt gctgngtcca 720
tggcccgtca nttatcaagg ttgcactttt aaatgnggta tttttatgn 769

<210> 2637
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2637
taananatnc agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
ccaagcctcg gcctccactg cacctgctgc ggagtggcac ctttgcctgc aaggcccttc 120
taccccatgg cccaatgtca tcttaacaag gtctttggcc acttcaagaa ggccttgtgg 180
tgggttgctc aatctggcct ttccttcatg aaaaactact gnttatgtcc acagaccaag 240
aaggaactgt cacgctggta ccacaagtct gacttgggct atcaacagcc agaaaaacta 300
gaggaatctt atagattcca gaactcagga tacctcaagg ataggtcaca agcaagagta 360
caaaggaatc ttcagtactg aacaaaacag aacccttcat gatttgacaa aggtcacttt 420
ctggttgcct ggaccaagct actccagatc atctgaccaa ctcttaaaaa tcacgggcag 480
gcacantggc tcatgcctgt aatccagcac tttgggaagc anaagtggca ggatcattnc 540
agcccangag ttcaagacca gctgggcaac acagtgagtg agaccctgtc tctatttaag 600
aaaaaattat taagaaattt tattaaaaaa gaagaatcag gaaaccaagt ncaacccaac 660
ttaacctaaa tgaaccaacc cctacacaga tgangggatt tgggactgat aactctgggc 720
tgggtccatg gcccgtcatt atcaaggttg aactttgtaa aggggctttt tttatgt 777

<210> 2638
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2638
taananatnc agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
ccaagcctcg gcctccactg cacctgctgc ggagtggcac ctttgcctgc aaggcccttc 120
taccccatgg cccaatgtca tcttaacaag gtctttggcc acttcaagaa ggccttgtgg 180

tgggttgctc aatctggcct ttccttcatg aaaaactact gnttatgtcc acagaccaag 240
aaggaactgt cacgctggta ccacaagtct gacttgggct atcaacagcc agaaaaacta 300
gaggaatctt atagattcca gaactcagga tacctcaagg ataggtcaca agcaagagta 360
caaaggaatc ttcagtactg aacaaaacag aacccttcat gatttgacaa aggtcacttt 420
ctggttgcct ggaccaagct actccagatc atctgaccaa ctcttaaaaa tcacgggcag 480
gcacantggc tcatgcctgt aatccagcac tttgggaagc anaagtggca ggatcattnc 540
agcccangag ttcaagacca gctgggcaac acagtgagtg agaccctgtc tctatttaag 600
aaaaaattat taagaaattt tattaaaaaa gaagaatcag gaaaccaagt ncaacccaac 660
ttaacctaaa tgaaccaacc cctacacaga tgangggatt tgggactgat aactctgggc 720
tgggtccatg gcccgtcatt atcaaggttg aactttgtaa aggggctttt tttatgt 777

<210> 2639
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 2639
nnnnnnnnnn nnnnntntga aacccttttn aagccttttg naggaccctc gatcgaattc 60
ggcacgagga acagacaagt tctgtcccag cctctgttac ctctaacccc atggcattct 120
atccttttct acactgggct tncatttctt acccaacaat ggactggtct ttcaaggtgc 180
tggcatttaa attcccaaan acttggncct cttctgantt ggggacctcc ttcaaagntg 240
aattgcagtg agtgacaata aactgggcta aatacttatc ttgccagaag actcaaaggg 300
nttaaggctt ttactaactg aactctatgc tagaaggtaa ggataaaagg gtaacaggac 360
acaagtcttg cttaacttgc tatgggctgt caagccttat caaactaacc ctatctctct 420
tcacctctta tctttatcac ccgtagattc cttggtggcc actgggttct ttcaagcctt 480
aattagccct ttgncactac ctgnctacac atgctggttt tccgtctcat tccatcttga 540
cattggctat tttgaganct caacttaatt gcagaagaac tggcttccca tctggcaacc 600
cattatatgn ggcaaaagac catgttgnac catagagcta gaccangtgc catggtgggg 660
cttgnaaagn attcaccaac ttncaaaggt tacctaaatc cctttactca agaagcctaa 720
ntntactgga cagtgggaaa aataacccnt ttggnataan gnncccaaaa aaaagnaag 779

<210> 2640
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2640
taaanatcag ctcttgttct ttgcggactt atcgatccna attcggcacg agggtatttg 60
ttcttgaacc acacccgttc gatcctagag ttctcttttc tgctggtcat gatggaaacg 120
tgatagtgtg ggatctggca agaggagtca aaatacgatc ttatttcaat atgattgaag 180
gccaaggaca tggcgcagta tttgactgca aatgctctcc tgatggtcag cattttgcat 240
gcacagactc tcatggacat cttttaattt ttggctttgg gtccagtagc aaatatgaca 300
agatagcaga tcagatgttc tttcatagtg attatcggcc acttattcgt gatgccaaca 360
attttgtatt agatgaacag actcagcaag cacctcatct tatgccttcc ccttttttgg 420
ttgatgttga tggtaaccct catccatcaa gatatcaaag attagttcct ggccgtgaaa 480
attgcaggga ggagcaactc atcctcaaat gggagtactt cctcaggact gaatcaagtt 540

ttaagtcagc aagcaaacca ggagatcagc ccactggaca gcatgattca aagactacaa 600
caggacaaga cctgagacgt tcttggtgaa gcaggtttaa taatccaccg ttaagtagan 660
gctccataag tctacctcaa aggtcattcc caccaacgta ggcttanacg tatggacaaa 720
ttgaagtgtc cgnaaatgcn cagaacgccc aagaaat 757

<210> 2641
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 2641
nnnnnnnnnn nnnnntntga aacccttttn aagccttttg naggaccctc gatcgaattc 60
ggcacgagga acagacaagt tctgtcccag cctctgttac ctctaacccc atggcattct 120
atccttttct acactgggct tncatttctt acccaacaat ggactggtct ttcaaggtgc 180
tggcatttaa attcccaaan acttggncct cttctgantt ggggacctcc ttcaaagntg 240
aattgcagtg agtgacaata aactgggcta aatacttatc ttgccagaag actcaaaggg 300
nttaaggctt ttactaactg aactctatgc tagaaggtaa ggataaaagg gtaacaggac 360
acaagtcttg cttaacttgc tatgggctgt caagccttat caaactaacc ctatctctct 420
tcacctctta tctttatcac ccgtagattc cttggtggcc actgggttct ttcaagcctt 480
aattagccct ttgncactac ctgnctacac atgctggttt tccgtctcat tccatcttga 540
cattggctat tttgaganct caacttaatt gcagaagaac tggcttccca tctggcaacc 600
cattatatgn ggcaaaagac catgttgnac catagagcta gaccangtgc catggtgggg 660
cttgnaaagn attcaccaac ttncaaaggt tacctaaatc cctttactca agaagcctaa 720
ntntactgga cagtgggaaa aataacccnt ttggnataan gnncccaaaa aaaagnaag 779

<210> 2642
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 2642
naatngcnag ctctngttct tttncggatt annaagcctt agcaggcngg gaagatgaaa 60
ggtagccgga tcgagctggg agatgtgaca ccacacaata ttaaacagtt tnaaagattg 120
aatcaggtca tctttccagt cagctacaat gacaagtcta caaggatgtg ctggaggttg 180
gcgagctagc aaaacttgcc tatttcaatg atattgctgt aggtgcagta tgctgtaggg 240
tggatcattc acagaatcag aagagacttt acatcatgac actaggatgt ctggcacctt 300
acccgaaggc taggaatagg aactaaaatg ttaaatcatg tcttaaacat ctgtgaaaaa 360
gatggtcttt tgacaacatt tatctgcatg tccagatcag caatgagtcg gcaattgact 420
tctacaggaa gtttggcttt gagattattg agacaaagaa gaactactat aagaggatag 480
acccgcagat gctcatgtgc tgcagaaaaa cctcaaagtt ccttctggca gaatgcagat 540
gtgcaaaaga cagacactga caaattacaa atgaactttc ttgcacttgc ttgtcgccca 600
ataaaagaga ngcccattga ttcttcccca ccccaaaaaa aaaaaaaann nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn annnnnnccc nnnnnannnn nnncnnnnnn 720
nnnnnnnann nnnnnnnnnn nnnnnnncnn nnnnnnngnn nnan 764

<210> 2643

<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 2643
gnntttgata ccctttttga ntgccttttg caggacnctc gttcgaattc ggcacgaggg 60
aacgcagctg ctcaccagca acggaacaaa gctggacnga gaatgacttt gaagagctga 120
gagaagggct tcagaccgat caaattactc tgagcttacg gggagggcca ttcaaaccaa 180
agggcaaaga aagtttgaaa actttgaaaa aaataaatgg tcattaatta aacgtggaaa 240
tctggtgaac aagtaacaaa ctttggtgaa atttcaggac catagccatt gaagtggatg 300
agggaaccta tatcatgcac tcaacaatgg tctttttacc ctgggagctt cacacaaaga 360
agaatcgccc tgaaacctgg ctatggaaaa taccttagta taaattcaga tgaacttgtt 420
gttggcgttc agatgcaatt ggccaagaga acaatgggaa ccagtctttc aaaatgatgg 480
ccatncagta atgagaatga acagtcttca actaaaggca acaatntaga tgaatctcgg 540
aaacatgata ttgaccaaga cagaaaagat tcacttacat aaacttcaaa agaagataaa 600
actgatctat gacattaata gtcagaatat tcattatcct tgagggaact aaactgggaa 660
gccncatgat agggcatttt ggaagctagt aatgncctct ttcttgatct ggtacattgg 720
tgnggttatt tcattagatt tattgagctn tacatttacc accgngtcct tggctctgga 780
tatgtttn 788

<210> 2644
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 2644
nnnttttnnn anatncagct cttgttcttt ttgcggatcc tatcgattcg aattcggcac 60
gagttcacca atgacatgat cttatagcga ttctataaaa acagaattat taaccaaatt 120
cagcaaagtt ggtcaaattc caaaattaac ccccagaaat caggtgcttt ctattatagt 180
actngccagg tggaaccact tcatggaang gaaattagcc aggttcattt aaatngcatt 240
caaaaaggaa ttnaaattcc ttagggaatt aaccnaggga nggtgaaaga cttggtcccc 300
agaaaactnc caaaatattg gttggaagaa attaaagaag acataattaa atggaaagac 360
atcctggtgt tcaattatat ccatttaaag acacaattaa atgggaagac atctgtgttg 420
gaaagtttaa tattggtcac atgtcagtct acccaaagtg gcatcagagg caatgcaatc 480
ctattaacat ccacagtgtt tttttaggaa atnttaaaac ctatcacang ccaggttcng 540
ttggtcatgc ctgtaatccc aatattttgc caagcctagg agttcaagac cagcctgggc 600
aacatacgag accctagctt tacaacacac caccaaaagc ccggtgtggt agcacatgtc 660
tgtagtcaca ggtcctttag angttgaggc aggaggatca cttgagcccc aagaatttga 720
ggcacagtgg gctnttntca ggnttcttaa ctccagtctn ggtgacangg ggaaaacctg 780
nggctaggtt taaaaaaaaa 800

<210> 2645
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 2645
gnnntttnaa aannncnagt ttactttgtt anttttgca ggatcttatc gatccgaatt 60
cggcacgagc atggtaatcc tgctcagtac gagaaggaac cgcaggttca gacatttggt 120
gtatgtgctt ggcttgagga agccaatggg gcgaaacctn catctggtgg ggaaggaaag 180
gaaggcaggg ctggtgggtg gggactgggg taggggtatt agtatcactc ctggaagttt 240
ccactggctt cttagaaatc taacccagaa antagaaacc taatttttta aagggtgact 300
gggcaaaaaa aaaaaaanna annnatnnnn annnnannan nnnnnannna nnnanacnnn 360
cnannatgna ccntnnnnan nntncnnnng annnnnnnnc annnnannca tngnaanttn 420
nnnnnnnnnt gaaaaactnn ngncctnaan aaaatngnnn nntntnnaat nnnnnncnnn 480
tnnnntnnnn nnnttgnnnn nnnancnccn nnnnnnnann gnnnaaaaaa aantttttt 540
tnnaaannnn naannnttnn nnntaantnn acannttttn nnngnnnnaa naannnnnnc 600
ncanannatt gnnnttttttt ttnnnnnnnn nnnnggggggg nnggngggaa ntnttttnna 660
nnnngnnccc cnngncntnn nnttngggcc cnnnnccnnt ttttttnncc cnnttgggng 720
gnnnnttnnn ccccnnnnnn naaannngnn nnannnnnnt nnnnaaanaa aannntnnnnn 780
nnnnaantnn nnnnnngngg ggnc 804

<210> 2646
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 2646
gnnttttnaa nnnnnncagt ntactngtng tttttgcagg atcctatcga ttcgaattcg 60
gcacgagcga gttttttttt ttttttttc ttcctctctt tctctcttcc ttcctccttc 120
cnttcctccg ttcntccccc cccnttttt tggnannagg gttttttttt ngtgncnagg 180
nctggagtca agggnccaan tnccngttaa tngaaccntg acntcnnggg ccnangnaat 240
ccttttaact taancntcnn gnaaacnggg nccncnggcc catncaacaa aaccaagtta 300
ngatttttt tttttaaaat ttttgagcaa caggggatc tcctggggtg gcccaaatgg 360
gcttaaaact cctggcttna aatggatcct ccggcntaag cctnccaaag gctaggattn 420
taagcntaag ccaccacacc cagcccattc tttataatta ctttatggtt caaagcagct 480
tanggttact ggnaaattgn gaagaaattn ccgagttcca catctnccaa ctttgcattt 540
ttacatgact ggntttctct attctataac ctaataagca tgcttttcct accttnctac 600
tgaacttttt actaatatat tatctaattg aaatgagcat acccagtnca tttactagaa 660
ttagatgtgg gactcagaaa taaatctgca ggttggtttg gaccaactnt gggaaaagct 720
acctcaaatt tgtggagggc caaagnttgc atttgcnctn tactggaaca nggggagna 779

<210> 2647
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 2647
agctcttgtt cttttgcagg atcctatcga ttcgcatnng gcacgagaaa tattntgata 60
ctgtacccgt tgctgctgcc atgtgtgtgc ttaaaacagg gttccttttt gtagcatcaa 120
gaatttggga aaaccattct ttatatcaaa attggcncat ctttgggang aatgaatgaa 180
tgaaagaacc ctggagtttt caatcaaccc atgccctctt ggaaagaagg gagaacncat 240
ttctttttt caacccaaag aaccacttta aaaaccttgg tgctgggttg atgaagttgg 300
gacaagcctc ttctcccatt ctggtttgcc agatagctga tctggccaat gaagatctcc 360
acagttgtat gtggcctgtg gtaggggacc ccgatcatct ctgagaagtc ctaagacatg 420
gacttgangt gtcagaaatg gctggttctg agctacctgg taccccaacg cttgtctgga 480
cagtgcgtcg acacattgaa gatgagtttg atgcctacat cattgggtct ttcgtgaatg 540
ccaccctaat gttgtccatt ggagaaactg tagaagaagt gactgactct nggttcctgg 600
ggaccacccc gacttggcct gctncntatt aggagatgat gccttggtgc aggctatnca 660
natgnattng gnacatacna gccgacaaga aagtcaatga atggnaaaac cctggaagaa 720
aacaattgtg aantgtgcaa tggaaccanc gaccagtggt gaatggcctt acaggangaa 780
aactggtntn ttt 793

<210> 2648
<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(843)
<223> n = A,T,C or G

<400> 2648
tatnnnatnc agctcttgtt ctttttgcgg atccctcgat tcgaattcgg cacgaggaaa 60
gaccgagata gagagagaga cagagacaga gagcgagacc cgtggttccg ggncagagaa 120
aggaggaacc cccccngang anganganga ngangggganc cgtgattcac cagtcccttc 180
caccaaagtg tttttcaacc agccgattga aagaaccgat tccaggattc caggggaatt 240
ttgccnngaa aaggaaggtt nttgaaccgt naccaagaag caaagttcga ggaaaaaaag 300
gaaagaaccg accatttgag gaaaaggacc gaccaccagg ggagaaagaa ggaaacccag 360
acnttaagtc ttcttcgaaa gttattagta gacgtcgcca tgaaagttga agaaaggaga 420
ttgtcacagg agaccaaacc cnaaaaatct aaaagaagcn aagaagggaa agaagcnggc 480
agtgagcctt gcccttgaca ggagagcccc gaaactncac cttgcagaat agcatgggtt 540
tngccttttg tgtatattag taccagaagt agatactatn aatcttggta tttttctgga 600
taatgtttaa gaaatttacc ttaaatcttg gtctggtttg gtagtatgaa aagttaactt 660
ttttttccaa attaaagagt gaatttttca ttgttaagtt naaaatcttt gncttgtnct 720
atttcaaaaa ttaaaagacc gcaatgactt tntnttccaa aaaaaaaaaa aaaaaactng 780
ggcctttaaa cttttgtgag tcgtnttacg tanatccnga cttgttagga tccttggttg 840
agt 843

<210> 2649
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2649
tanacancag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgaggggg 60
cggaggcggg agaggcgagc tcgcgatgag tggtctcggc aggctcttcg ggaaggggaa 120

gaaggagaaa gggccaaccc ctgaagaagc aatacagaaa ctgaaggaga cagagaagat 180
actgatcaag aaacaggaat ttttggagca gaagattcaa caggagctac aaacagccaa 240
gaagtatggg accaagaata agagagctgc cctacaggct ttgcggagga agaaaagatt 300
cgaacagcag ctggcacaaa ctgacgggac attatccacc ctggagtttc agcgtgaggc 360
cattgagaat gccactacca atgcagaagt ccttcgtacc atggagcttg ctgcccaaag 420
catgaagaag gcctaccagg acatggacat tgacaaggta gatgaactga tgactgacat 480
cacggaacaa caggaggtgg cccagcagat ctcagatgcc atttctcggc ctatgggctt 540
tagagatgat gtggatgagg atgaactgct ggaggagcta gaggagctgg agcaggagga 600
attggcccag gagttgttaa atgtgggcga caaggaagaa gaaccctcag tcaaattgcc 660
tagtgtacct tctactcatc tgccggcagg gccagcttcc aaagtggatg aagatgaaga 720
acactaaagc agttggctga atgggtatcc tgataaatct gggcttgtct tncta 775

<210> 2650
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(879)
<223> n = A,T,C or G

<400> 2650
gngngnnnnn ttnnnnnagn nnnnnnngnn nggtttngat cagctcttgt cttttgcagg 60
atcccatcga ttcgaattcg gcacgaggtt gtattggaaa gcagtagtgt ggacgaattg 120
cgagagaact tagtggaaat cagtgggatt cctttggatg atattgaatt tgctaagggt 180
agaggancat ttccctgtgg atattctggt ccttngntnt tcatccanga atttaanaac 240
tgggaattcc taaaagtttt cttacccctt gaaatggtcn tgggcccctc tttttaataa 300
tcctggtgga atggaatggg ttgcccggtt ccantaattt tttaattang ggggatttaa 360
aaaaccaaga aangnaaatt ttaaatnggg aaaatttgga accaggaatg gaagcccaaa 420
angaaaaatt ggaaacctgg gattgnaaaa aaaanggaaa aagnccagtt ccgaactttc 480
ccagaaaaga acntggggac canttcgggg gttaaccant accttcaacc ntcggttaaa 540
aggaggaaaa ggccacctta aaaaaantat tantcttggg attggaagcc accccaaant 600
taaaggaatc tggacntcaa ggactggacc tctggatagg tggtagccat tttnccctgg 660
ggggaagttt ttggttttaa ttagatggnt cacttccact gggtagtgcc attttggncc 720
ggacatggtt ggggtaccca tgacccacac tgatggactg cctacccatc agaactcatg 780
cccaatggcc ctggtttgac tcggatcatg ttggcctata gtcaaatgtc tgtaagtgaa 840
anggatgtgc aaaaataaaa aaaccccaaa aagctccna 879

<210> 2651
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 2651
cagctcttgc ntttatgccg atccctcgat tcgaattcgg cacgaggaga cgtcgtctct 60
acaaaaaata aaattagcca ggcatgatgg cctgtacctg tagtcccagc tactcaggag 120
gttgataggg gaggatcacc tgagcctgcg aggtcgaggt tgcagcaagc caagatcatg 180
ccactgtact tcagcctggg cgatagagac cctgactcaa aacaaagaag acccagtaca 240
agttcagtgt tgagtgctaa agacttaaaa gagttataaa gctgaaccct taatcttaag 300
aggtttataa gtgagaacaa gaatctccaa atcctgtact gtttaatatc agcatgagac 360

taaaccactg tcctaagaag acaaccttaa tttgaatcaa gttattttag agtgatgtgt 420
tttctgaggc agctctcaga angttattgt ctggtgttaa aatagtgaaa ttgagtaata 480
acaaggttaa aatcggtgga cattaaatac acacaagact tcaattgctg ggtcctccat 540
tgattaatga aaaaatgatt gtttttggaa tttgagtgaa acacttctta atggctgagt 600
anggtggctt acgcctgtaa tcccaccact ttgggatcac tttgaggccg ggacttttga 660
gaccagcttg gncaacatga ggaaagcacg tctttctaaa aatcn 705

<210> 2652
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 2652
ttnaatcatg ctcttgtttc naancgntgn catcgattcg aattcgcacg aggtggtctt 60
cagtctgtcg tgcaccgatg agaactctcc ttattgctgt gaagggcaga caatgcatgg 120
ctgatctact ctgttaccaa tggctttact agtgacacgt cccccggtct aggatcgaaa 180
tgttaacacc gggagctctc caggccaccc acccggagag acgtcgcgct gtggcctgaa 240
gtggcgcaag cttgctttgt aaatatctgt ggtcccgatg tagtgcccag aacgtttgtg 300
cgaggcagct ctgcgcccgg gttccagccc gagcctcgcc gggtcgcgtc ttcggagtgc 360
ttgtgacagt ccttgcccag tatctagtcc ccgtcgcccc gtgcaggaga cgtaggtagg 420
acgtcgtgtc agctgtgcac tgacggccag tctccgagct gtgcgtttgt atcgccactg 480
tatttgtgta ctttaacaat cgtgtaaata ataaattcat aatgacttct acctttaaaa 540
aaaaaaannn nnntnnnnnn nnnnnnnnnn nnnnnngnnn nnnnnnnnnn naaaaaaaaa 600
cctngnnaac nggatgccac cctgggccna cgaattttcc tgccaatgtt gctcactngg 660
gggacnncct ggaaggactn ttttggggnc ccncanaatt aaaccttgn 709

<210> 2653
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2653
tgnttntttn aattatgctc tcgccttcna atngntngnn tcnattcgaa ttcggcacga 60
ggagaagctg accttggacc tgacggtgct cctgggtgtg ctgcaggggc aacagcagag 120
cctacagcag ggggcacact ccaccggctc cagccgcctg cacgacctct actggcaggc 180
catgaaaacc ctgggagtcc agcgccccaa gttggagaag aaggatgcca aggagatccc 240
cagtgccacc cagagcccca tcagtaagaa gcggaagaaa aagggattct tgccagagac 300
gaagaagcgc aagaaacgca agtcagagga tggcacgcca gcggaggatg gcacacctgc 360
agccaccggc gggagccagc cccccagcat gggcaggaag aagaggaaca ggacaaaggc 420
taaggtccca gcccaggcaa acgggacgcc aaccaccaag agtccagccc ctggcgcccc 480
cacccggagc cccagcaccc ctgccaaatc cccaaaactt gcagaagaaa aaccagaagc 540
cgtnccaggt gaatggtgct cccgggtccc ccacggaacc ttgcaggcca aaagcagcat 600
cagaaggctc ttcccaaaaa gggggtcttt gggcaaatca ccacttgtcc cgcgcttggc 660
accggaaaaa nggcaagggc ttgtcttttg gtcattcang gagttccagc cctgcnttca 720
aaaatggggg cccaaanaat 740

<210> 2654
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 2654
ttttncaaca gctggctact cgttctnttt gcaggatccc atcgattcga attcggcacg 60
aggacagtac ctttcccccc cctttcatgg cccattttat tgtctgcctt tcagtactaa 120
gtatgaccgt tcctatctca gatcttaata aaaagaaaaa aaaaacgcat tcaggttaaa 180
tttggcctta atttaatata cttgttagca agcgtgtgtg acagagagtg gggaaagcta 240
catcattgaa tattttgata aactttaccg acttgagttt ggtttatttt tccctttcc 300
taaattaact agcactgact gtaatttatt tccctgtttc acgtctctcc cttccattct 360
gcaggagttt tagctatttg agatcgtgga ccatcagttt tgcactttag agagtgtttc 420
tgactctaaa cctgttttat cagaaaattt gttttttctt gatcttagct ggaaaaatct 480
gccaacttta cacagtattt acttggtttt gacccacaga atatagcacg ttgtgcaaac 540
tgtcgattca gcgaaactta naaaagacaa gaaactactg aggagcttag taactgctgt 600
ttctgtacgt agtgtttaat cttccaagca catctagtgt ctgtcagttt ctaattggca 660
tgtgtaggct gctctgtgac tgaagaattt tcaaaccagc tttacaccct tcaggaaaaa 720
atcccttgtg attggatgtt tactatcngc cnngaaactg gtactcaaga tgttngaacg 780

<210> 2655
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2655
ntttgaaacc ctttgttact tgtnctttt gcaggatccc tcgattcgtt tcagcccttt 60
gccgccaggg ccaaaggtgg aaagtgattt ggaagagnaa gagcttttcg tccaccagaa 120
aaattggtcc naaattaanc ttgnaaggga ngnaatttgg gaanttgccg caaggcnaaa 180
agcnttactt ttanngnttt aatcaantan gnttggccct tccngaaagt aaattttaat 240
ggcttaaagg ggttancagn cccaanaaag ggtnnngggga agcaantccc agccncancc 300
agggccagtt aaggcctttg gtgaactgtg ctattagggc ccagcttccg gtaccctgta 360
ggttcccaag gcctggctta agcagatcct tgatcgatat accttgagan cagaaggtgc 420
tccnaatnac accgtccaat aggggatcta ggacaatctt ggagatccat gccttgctgt 480
gttgctgatt cttactgggg actgtagatg aaaggtggaa agatnactta gcacatcttn 540
aaactatggg aagncattct ttctgcttgt angatttgtc ntgttttgga aanctttaaa 600
cgtggntnaa ccctatgttn ggaattatct gctttatggn agcaataccc tnttttaaga 660
atttgaattn ancccgaaag ttatggccgg taacttaaat tggttaaacc tgggcttata 720
accccaaggc ccgggttcaa cn 742

<210> 2656
<211> 786
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 2656
ttgcnancgn tgccctactc gttctntntg caggcatccc atcgattcga attcggcacg 60
aggttagctc gaggggcaaa taaagagcac aggaatgttt ctgattacac acctctaagt 120
ctggctgctt ctggtggcta tgtgaacatc atcaaaatat tactaaatgc aggagctgag 180
attaactcta gaactggtag caaattgggc atctctcctc tgatgttagc agctatgaat 240
gggcatacag ctgctgttaa gctcctgtta gacatgggct ctgacataaa tgctcagata 300
gaaaccaatc ggaacactgc ccttacttta gcctgcttcc aaggaagaac tgaagtggtt 360
agtcttctgc ttgatagaaa agcaaatgtt gaacacagag ctaagactgg tctcacacca 420
ctaatggaag ctgcctctgg tggatatgcg gaggtgggcc gagttctttt ggataaaggt 480
gctgatgtta atgcccctcc agttccctcc tcaagagata cagctttaac catagcagca 540
gataaagggc attacaaatt ctgtgagctt cttattggca ggggagctca tattgatgta 600
cgtaacaaga aggggaacac tccattgtgg ctagcagcaa atggtggaca cctcgatgtg 660
gttcagttac tggtgcaaag caggtgcaga tgtggatgca gcagataacc gcaagataac 720
tcctcttatg gcagcattta gaaagggtca tgttgaangt gggtgcgcct actttagtca 780
aagaan 786

<210> 2657
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 2657
ttnaaantat cgaaactctt tggacttttc gnacgctttg caggatccca tcgattcggn 60
ccacttncgg cgtngccatg gnggcgnaac actactantt cccgtcgcag ctnctgccgt 120
nagagcntgt ggacaantgt ataggatcaa gaattcacat ccngatgaac agtgatnang 180
aaatngntgg tactctccta cgatntgatg actttgnnnn tatggtnctg gaagangtnn 240
ctgagnttga aatcacaccn catgaanaan gatgctaaat tanancacat ntngctnaat 300
ggaaataata taacaatgct ggttcctgga gganannngac ctganntgtg aatgagttnc 360
cttgacttac actagatttt gttttggctt atnatgacaa naaaatggga ttttttttcc 420
cactttctaa tgnttaaatc ccatanagct aagttncccg nttaagggaa gtgctntgaa 480
gatgtgtacc catcnttgtn agttaancat gattatcctg gaaaaagaan aaaatanctt 540
cttctttgca gatgaaaata aaggtgtttt tggttaactg tcnaanaann nnnantgccc 600
tnaaaaagag ttgnnggggg gcntgactct tataaaatgg atttaatnaa actgtncnan 660
angcctcccc cccttaaaan ntttggggcg tgttnttccc ttangncccc caaaannntn 720
nnannccctt tntgggattt tnggcccaaa ccccccccct tgaaaggnnn gggaaaaaaa 780
cttnttttttt tttgggaaaa tttgtgn 807

<210> 2658
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2658
tntacataca ggctacttgt tctttttgca ggatcccatc gattcgtggc tggtattata 60
ggtgcacacc accacaccca actagttttt tgtgttttta gtagagatgg ggtttcatga 120
tgttggccaa gctggtctcg agctcctgac cccaggtgat ccacccacct cggcctccca 180
gggtgctgga attataggcg tgagccactg cgcacggcct ggggaggttt tatttcttga 240
caaaggtatt tgatactcgt gcagaccctg gagggtctca ctggagagac aacatttagg 300
ctgagatctg attaacagga ggcagctgca gtgcagaggt caaaagggag ggtgttccag 360
gcagagaaaa cagcctgtgc aaaggccctg aggcagaaac aaactctact tgaggtcagc 420
ctggttagaa aacccaactc aaaatagaaa gtattacatg ataaggtctg agatcagaac 480
ccaagtctgc acttcctagt cacgttctcc ctgtagtgct aagcccagag acctgagctg 540
ttaacctaga acagtgtgct tcctaagcct taatgtgcat acccatcgcc tggagctcgc 600
cttaagatgt aggctctgcc tgaagcccaa gttcatttag tatgtcatgg ttaattcaga 660
gtaaaatcaa gagttagtac ttgatttatg cttggtatat aaagaaagag acaacttcac 720
tgnatgatca ttttgtcact tttcaaaagc atttaattcc attcaattgg aaatgtg 777

<210> 2659
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 2659
naaaccnnca gctacttgtt ctttttgcag gatcccatcg attcgccgaa gaaatataac 60
acattttgga cctacaactc ttagatcaac tcttgcctat gggatgctca ggctctgtga 120
tcctctacct tatgatataa tagtcgatcc aatgtgtgga actggggcaa taccaataga 180
gggggccact gaatggtctg actgcttcca tattgctggt gataataatc cactggctgt 240
gaatagagca gcaaataaca ttgcatcttt attgaccaag agccaaatta aagaaggcaa 300
accctcctgg ggcttgccca tagatgctgt tcagtgggat atctgcaatc tgccattgag 360
aactggctct gtggatatta ttgtaacaga tttgccattt ggaaaaagga tgggatccaa 420
gaaaagaaac tggaaccttt atccagcttg cctacgggag atgagccgtg tctgcacacc 480
taccacaggc cgagctgtac tacttactca agacacaaaa tgctttacca aggcgttatc 540
tggaatgcga cacgtatggc gaaaggtgga tacagtctgg gtgaacgttg gtggtcttcg 600
tgctgcagtt tacgttctga tacgtacacc tcaagctttt gttcatcctt cagaacaaga 660
cggagaaaga ggaactcttt ggcaatgcaa agaatgaaga tgactaatag tacttgnact 720
tnccaccact ggaaatgtta gcataaaaga acttggagag gaaaaaagtn ttac 774

<210> 2660
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 2660
taaacctnca gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggc 60
agtgactgcc ttcggctttt tttctgctga ctaagatctc ctatagagag ctacaacaat 120
gcccaaaaga aaggctgcag gtcaaggtga tatgaggcag gagccaaaga gaagatctgc 180
caggttgtct gctatgcttg tgccagttac accagaagtg aagcctaaaa gaacatcaag 240
ttcaaggaaa atgaagacna aaagtgatat gatggaagaa aacatngatt cnagtgcccn 300

ancnnttgnt nnaacccanc cagaagccat tngtnnanaa ganntccatn gaaannnnta 360
aaantggaga agccaaantt ncagaggcac cagcttntga aaaagaantt gtggaagtaa 420
aagaggaaan tattgaanat gccacagaaa agggaggaga aangaaagaa gcagtggcag 480
cagaagtaaa aaatgaagaa gaagatcaga angaagatga ngaagatcaa aacgaagana 540
agggaaactc tggaananaa cacagatntg aaaagggnga aaaatatgga anagggttta 600
aatgnggatg tgaaaaggga aaatangcaa gagananaga atttggaaaa aangngtgaa 660
cccnggaaag gggatttngg aaaattttgg aaaaaaaaan nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnaa aaaaaaaacg ccctttttaaa nacntttttgg gggggntcnt tttttcccgn 780
aannncccca naccttttgan taangaatnc cnttc 815

<210> 2661
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 2661
taaacctnca gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggc 60
agtgactgcc ttcggctttt tttctgctga ctaagatctc ctatagagag ctacaacaat 120
gcccaaaaga aaggctgcag gtcaaggtga tatgaggcag gagccaaaga gaagatctgc 180
caggttgtct gctatgcttg tgccagttac accagaagtg aagcctaaaa gaacatcaag 240
ttcaaggaaa atgaagacna aaagtgatat gatggaagaa aacatngatt cnagtgcccn 300
ancnnttgnt nnaacccanc cagaagccat tngtnnanaa ganntccatn gaaannnnta 360
aaantggaga agccaaantt ncagaggcac cagcttntga aaaagaantt gtggaagtaa 420
aagaggaaan tattgaanat gccacagaaa agggaggaga aangaaagaa gcagtggcag 480
cagaagtaaa aaatgaagaa gaagatcaga angaagatga ngaagatcaa aacgaagana 540
agggaaactc tggaananaa cacagatntg aaaagggnga aaaatatgga anagggttta 600
aatgnggatg tgaaaaggga aaatangcaa gagananaga atttggaaaa aangngtgaa 660
cccnggaaag gggatttngg aaaattttgg aaaaaaaaan nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnaa aaaaaaaacg ccctttttaaa nacntttttgg gggggntcnt tttttcccgn 780
aannncccca naccttttgan taangaatnc cnttc 815

<210> 2662
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 2662
gtngggntnn nnnttttgna aaccntnngc tattgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagggtga ctggaatcgc ttgaacccgg gaggcggagg ttgtagtgag 120
ctgagatcgt gccactgcac cccagcttgg gcaacagagc aaaactctgt ctttaaaaaa 180
aaaaaacaaa aaaaccaaac aaacaaacaa aaaaaacctt atatgggctg ggctgggcgt 240
ggtgccttat gcccacaatc ccagcatttt gggaggccag gatgggagga tcacttgagc 300
ccagaagttt gagaccagcc tgggctacag agtaaggccc catntctaca aaaaaacctt 360
aaaaattagc caggtgtggt ggcacgcact gtggtcccag ctgtaccaga ggctgaanca 420
ggaggatccc ttgagcccan naggtcaagg ctgcagtgag ccatatctac accactgcac 480
tccagcctgg gcaacagcct gtctcaaaaa ctaaactaaa aaccttatat gttnttgtta 540

gaatnaaatt agatatacaa aaagaggggc cgggcagggt ggctcacgcc tgtaatccca 600
gcactttggg angctgangc aggtgaatta cttgaggtca tngagttccg agaccagcct 660
gaccaacatg gngaaaaccc tgtctatact aaaatntaca aaaatcagtc tancgttggn 720
nggtgggcgc cttgtaattc ccanctattc tggcaggctn angcaangat aattgnttcn 780
atcccgggaa ggcaataggt ttccc 805

<210> 2663
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 2663
tcaacagctg gctactcgtn ctntntgcag gcatcccatc gattcgaatt cggcacgaga 60
gttttcctgt gattagtgtt tttggtgttg ttttattttt tttcttacag gaactcttgc 120
aagaagaaag gactatgagt tcaactttag agggagccat ggggactaaa caaaattctg 180
aggccccctc aaccatctaa atggacttcc ttctgggcca ggacactcga aaattaaacc 240
tgaaagactg gttcaggcca tgatgggaag tgggagtcga acatgcctca tcataccctc 300
cagcattaac atcaacacag accttaaggc tgataagaag catttacaat ctattctctc 360
tgaagtcttc tacctggagg cttcatctgc atgataaaac tttggtctcc acaacctctt 420
acaacccagg cattcctttc tatcgataat tactctttca accaattgcc aatcagaaaa 480
ttgttatatc tacctataat ctagaagccc ccacatcaag ttgttttgcc tttctggaca 540
ggaccaatgt atatcttaaa tgtatntgat tgatctctca tgtctcccta aaatgtataa 600
aaccacgctg ttccccgacc acctggagca catgttctca gggtctcctg anggctgtgc 660
acaggccatg ttcacttaca tttggctcag aataaatctc ttcanataan aaaaaanccc 720
ccnccncccc ccccccnacc cacaaaaaac ctcngccctt taaaactttn gngggncg 778

<210> 2664
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(961)
<223> n = A,T,C or G

<400> 2664
gnattccgta aacgtacngt gttctttttg caggatccca tcgattcgtt tttaatagtc 60
attccaaata tgagatgcat tgttacagga agtcccttgc catcctaaaa gccacccccac 120
ttctctctaa ggagaatggc ccagtcctct cccaagtcca cacaggggag gtgatagcat 180
tacataattt acacgaaagc aatgctatca cctnncnagn gtggacttgg gagnggnnng 240
cttngnttnc nnttgagtga tgannentcn nnnncnccnt nccntcttnt tngnnccnna 300
ncttgcatnn ntnnnngctt cnncntncnt nngaccgnnn ngnnnncnnc ccnnnncttcc 360
nntncnnnnt tnntncnnnc cnntnnnacn nacnncnccn cttannnncn ccncncnnnn 420
nccnnnnnnc ccnnnnnnnc ccnncnnnnc tncctnnnnn ccntctnncn nannnnnnnt 480
nnntncnnnn nnnctnnnnn nncnnnntcn nnnnnnnnnn nnccnnnnnn nnncncnnnn 540
ncnntnnnnn cnnncnnncn ncnnnnnntc nncncnnnnn cnnnnncnnn nnnnnnnnnn 600
nnnnntcnnn ncnnnnnnnn nnnnnnnnnn nannnnncnt nnnncnnnnn cccncnnnnn 660
nnnnnnnnnn nntcnnnnnn nnnnnnnnnn ncnnnnnnnn ncnnnnnncn nctcnnnnnn 720
nannnnnnnn nnnnnnnnnc nnnncnnntn nntncncnnn nncnnnnnnn nncncccnnn 780
tnnntcnnnn nnnncncncn nnctnnnntc nntntnntcc ncttcctntt nccncncnnn 840

tctnttcntn nnncnntctn cnnncccnnc tatccnatnn tncntcntnn ccntcnnccc 900
ncnnnntnnn ctccnncatc ntccncnatc tnncctccnn annttnccnt nttnccccccc 960
g 961

<210> 2665
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 2665
aattttcaag ctcttgtttt ttatgcagga tcccatcgat tcgctggtct ccaacctggt 60
ctcctgggct caagcgatcc gcccgcctcg gcctcccaca gtgctgggat tccaggcgtg 120
agctaccgcg cccggcctat ttacttttct tactaagctg gggatcaccg tcgccctcgg 180
cttggcagga aggcgggggt gcaagaagaa aagaggtaca gaacacccag aggtgccctc 240
gattccgtct tgcacttgcc cttctcccac cgtccagcaa taaagcgaga gaaacaagtg 300
caggaaactg gccggcagtc atgggagaag ccaaaaagac aggagttcag tggcatgacc 360
agggctcact gcaaccttga tctgggctca agtgatcctc ctacctcaac ttcctgagta 420
gctaggacca caggtgtgca ccaaccacac ccgactaatt tttgtagaga tgagatccca 480
ctatgttacc caggctggtc ttgaactcct gggctcaagt gatcatcctg ccttggcttt 540
ccaaagtact gggattatan gcttgagcca cccgtgcctg gcctgtgatc aaaattctca 600
ttttttttagt cactaaaaat gctgggggggc actccattct ncattatgtg attagttcac 660
attgcatgct tgtatcaaaa cattatatnt tccccccncaa atttntncca aaaactttta 720
aattttaagt atttaattgg ttcaggaaaa aaataaaatg ctgggggggc tgaaatctca 780
angggcccat 790

<210> 2666
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 2666
tttaaanctt tcatttanag ccttttgcag gatcccatcg attcgaattc ggcacgaggt 60
ttgtgcatca cttggtcacc attgggctta tctccttctn ctacatcaac aatatggttc 120
gagtgggaac tctgatcatg tgtctacatg atgtctcaga tttcttgctg gaggcagcca 180
aactggccaa ttatgccaag tatcagcggc tctgtgacac ccttttttgtg atcttcagtg 240
ctgtttttat ggttacacga ctaggaatct atccattctg gattctgaac acnaccctct 300
ttgagagttg ggagataatc gggccttatg cttcatggtg gctcctcaat ggcctgctgc 360
tgaccctaca gcttctgcat gtcatctggt cctacctaat tgcacggatt gctttgaaag 420
ccttgatcag gggaaaggta tcgaaggatg atcgcagtga tgtggagagc agctcaaagg 480
aagaagatgt gaccacctgc acaaaaagtc cctgtgacag tagctccagc aatggtgcca 540
atcgggtgaa tggtcacatg ggaggcanct actgggctga anantaaggt ggttgctata 600
gggacttcag cacacatgga cttgtanggc cctggcaaca tactcctctt ggcccttcca 660
tatctactct tntgtgaatg ggagactgca angcactgan ggagtatcaa aagaagcaaa 720
ttttttcact tttgaaagaa aactgncatt ttgtntttaa tagcctccaa gttcntttn 779

<210> 2667

<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2667
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gaaaaggacc atttgaaaaa gttcaatgag ttgatggtta tgttcagggt ccggccaaca 120
gttctgatgc ccttgtggaa cgtgctgggg tttgcactgg gggcggggac cgccttgctc 180
gggaaggaag gtgccatggc ctgcaccgtg gcggtggaag agagcatagc acatcactac 240
aacaaccaga tcaggacgct gatggaggag gaccctgaaa aatacgagga acttcttcag 300
ctgataaaga aatttcggga tgaagagctt gagcaccatg acatangcct cgaccatgat 360
gcagaattgg ctccagccta tgccgtcctg aagagcatta tccaggccgg atgcagagtg 420
gcgatatatt tatcagaaag attataaagt gtgtccagtt ttgcctgtct ataaaagatg 480
atagtaattt accaagtgac atttgcagag aaacaggtgt acagttatcg ttgtactttt 540
gtacaatgtg aattttgtta ataaattatn agggttggtt ttttttttnaa aanangaana 600
nnnnnnanga aaactcgagc ctctaaaact atagtgagtc gtntacgtaa tcngacatga 660
taaaaacatt gntgatttgg caaccacact ngaatgcatg aaaaatgctt atttngaatt 720
gngatntntg ttattgacca tatactgata 750

<210> 2668
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 2668
gnnnnnnnnn ntttaatant tatcanctct tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agaagcagct tggggctcac tccccctcca ccttgctgac caccctcatg 120
ttctttaata ccaagtactt cctattgaag acagtggacc agcacatgaa gctggccttc 180
tccaaggtct tgcgacagac aaagaagaac ccctctaatc ccaaggataa aagcacgagt 240
atccggtact tgaaggccct tggaatacac cagactggcc agaaagttac agatgacatg 300
tatgcagaac agacggaaaa tccagagaat ccattgagat gtcccatcaa gctctatgat 360
ttctacctct tcaaatgccc ccanagtgtg aaaggccgga atgacacctt ttacctgaca 420
cctgagccag tggtggcccc caacagccca atctggtact cagtccagcc tatcagcaga 480
gagcagatgg gacaaatgct gacgcggatc ctggtgataa gagaaattca ggangccatc 540
gcagtggcca atgcaagcac tatgcactga gatgccttgg ccatggcaca aagagaaacc 600
agccaggaaa aaccagacag actttcacac taaagaagaa gccctccatt ttttttttt 660
ctttttttta ttgggggggag tttacnaaac ctttcaaggt tgcttttgt ttnaaaatat 720
taaaaagaaa acntttaaaa aaaaaaaaaa aaaaaaactt ggagcccttt taaaactatt 780
agtggggtcg tnttaccnta aaatnccana cttgataaan 820

<210> 2669
<211> 789
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 2669
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gccccagccc aggtggccaa gcccatcctg gcctcagaac atgctgagca cattttgtag 120
ggtggcacct ttttatccaa gttactagct acacatcant gtttaaagag aaaaaagtga 180
cctttcattt ttttttcttg aaacttgagg aaacaagata catactactg attttttttt 240
tcttaaaact aaatgcatga ctgcagangg tagaggtgta tatttttcat actgtggggc 300
aaagtatttg tgctgctttt tggagatgga ctggaacgtc tggtttctgt ccccnggccc 360
ggcagctacg tctatttttct gtanaaggtg ccacagtgag acctggagcc acccccttnct 420
gccctggcgc cgtttanagc tgggancccg tggactcccg gcctgtttct accttctatt 480
caaccactct gacgtgggga gacaaaaaca aataaaactt tttgatagtg tggtaaaaac 540
attgatttga actattttag taaaaggagt gacaaacaag aatgtgatag tgtctacttt 600
gagctaaata ataaangcct ctttgtgaac ctnctgggnt ttanngcang gcnnnaaagt 660
ttttnnaaaa atgngnannn aaactnganc cttnaaaaac tntanggagg cgtnttccct 720
tantncccga catganaaaa aacctttgat gnggtttngg ncaaaccccc aacttanaan 780
gccgtggna 789

<210> 2670
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 2670
tatnctatca gctcttgttc tttttgcagg atcccatcga ttcgagaaag atcactgctg 60
tttacagcgc cttgtgcagc cttagatttt aatattcttt tgtcattgtt acatctcata 120
gagtaaagct cttattacct tgatcctgag tcagaaatcc cacctgaaat caccttttt 180
ccccccttgat caaacatccc atccttcagc taccatactg ttgctacagg gattttgtgg 240
actgtggccc ctgtcccgag gttggcncct tcagttcagc acagcctgag cagtgagaag 300
gtctgaaagg agagtatata gntaagatcc ttgagaaagg gctgcctgag gaactgacct 360
cttaaagatc tcaggatctt taagacaaca agttaggttc ctactggagt tacctgccag 420
aatggcctct taattaactc angtaatgaa gagctaactg tgttataatc atcttgcttt 480
tgcctgaatt tggagaaagt attataatta aagttcccag tatcagaaat gtccttacat 540
aagattaaaa tatcttggtg actaatacca ttctatgaga aagagtagtt atttgcccag 600
actgtattaa tttactttag aaactaatgt ttgaagtaat ggaaaaaatt ttaaattatn 660
aagctaaggg caataacatt tgctacttat ttatagaatt atttgaaaaa atttgntttg 720
aagtaatgct ttaaggagtn taagatattc aagataaatt atactatnaa atgatttatt 780

<210> 2671
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2671

tcaaatntnn nntaancctt tttaagatca gcacttgttc ttttgcggat cnntccatgg 60
gtagaangga tgctcgtacc nnnaaganca ntaccgagac gtgcagctgt ccaaggctct 120
gtcctatgcc ctgcgccatg gggccttgaa gctggggctt cccatgggag ctgatggctt 180
cgtgcccctg ggcaccctcc tgcagttgcc ccagttccgc ggcttctctg ctgaagatgt 240
gcagcgcgtg gtggacacca ataggaagca gcggttcgcc ctgcagctgg gggatcccag 300
cactggcctt ctcatccggg ccaaccaggg ccattccctg cangtaccta agttggagct 360
gatgcccctg gagacaccgc aggccctgcc ccgatgctag tccatggtac attctggaag 420
cactggccat ccatcctact caaaggcctg tcctgccagg gaaggacgca cattcacctg 480
gccccaggac tgcctggagc cccggtatca tcagtggcat gcggncccat tgtgaaatag 540
ctgtgtcatc gatggaccct ggctctggca gatggaatac ccttcttccg ttctgccaat 600
ggggtgattc tgactccang gaatactgat ggcttcctcc ttccaagtcc ttaangangn 660
cctgancttc nccttaccga aagccctttc cttggctggn gatgaaaaaa caantgtcan 720
aatanccccа agcacagttc canaaaaag 749

<210> 2672
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 2672
ttnnntanta aaccccttnn ntactcgttt ttangcncgt tcccatcgac tcgaattntn 60
cacgaggacc agggctcact gcaaccttga tctgggctca agtgatcctc ctacntnagc 120
ttcctgagta gctaggacca caggtgtgca ccaaccacac ccgactaatt tttggtagag 180
atgagatccc actatgttac ccaggctggt cttgaactcc tgggctcagg tgatcatcct 240
gccttggctt ccaaagtact gggattatag gcttgagcca ccgtgcctgg cctgtgatca 300
gaattctcat ttttttagtc actaaaaatg ctgggggggc actccattct ccattatgtg 360
attaagttca cattgcatgc ttgtatcaaa acatcatata taccccacaa atatatacaa 420
aaaactttaa aattttaagt attaattgct cangaaaaaa ttaaaatgct ggggtgctga 480
aatctcaagg gccccattac aaaactcctt angaacctcg ccctcttntg ctgtaaggac 540
tggttccaga atgagagaat taaaagacat tcccgccaaa atgtcataat gtcaccccgg 600
aaacctgcga atatgttata ttacatgacc anggagaant aagggtgcan atggcagtaa 660
gggtgctaat gggctgacct taananaagg agatgatcct ggattatctg ggnggaccca 720
atgtaatcac aagggtcctt actggggaaa atgaggnggc tgatcaaaag caantgatca 780
tg 782

<210> 2673
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2673
tatacanctn ttgttctttt tgcaggatcc ctcgattcgc gacaatcagt gattttgctg 60
tatttctcac aatagtaata atggttacaa ttgactacct tgtnggagtt ccatctccta 120
aacttcatgt tcctgaaaaa tttgagccta ctcatccaga gagagggtgg atcataagcc 180
cactgggaga taatccttgg tggaccttat taatagctgc tattcctgct ttgctttgta 240
ccattctcat ctttatggat caacaaatca cagctgtaat tataaacaga aaggaacaca 300

aattgaagaa aggagctggc tatcaccttg atttgctcat gggtggcgtt atgntgggag 360
tttgctctgt catgggactt ccatggtttg tggctgcaac agtgttgcaa taagtcatgt 420
caacagctta aaagttgaat ctgaatgttc tgctccaagg gaacaaccca agtttttggg 480
aattcttgaa cagcnggtta caaggctaat gatttttatt ctaatgggcc tctctgtgtt 540
catnacttca gtcctaaaga ttattccaat gcctgttctg tatggggttt cctttatatg 600
ggagtttcct cattnaaagg aatccagtta tttgacccgt atnaaatatt tggaatgcct 660
gcttaagcat cagcctgatt tgatatacct ncgttatgtg ccgctctgga aggccatatt 720
ttacagtcat tcagcttact tgtttggtcc ttttatnggt gataaaang 769

<210> 2674
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 2674
aattttcaag ctcttgtttt ttatgcagga tcccatcgat tcgctggtct ccaacctggt 60
ctcctgggct caagcgatcc gcccgcctcg gcctcccaca gtgctgggat tccaggcgtg 120
agctaccgcg cccggcctat ttacttttct tactaagctg gggatcaccg tcgccctcgg 180
cttggcagga aggcgggggt gcaagaagaa aagaggtaca gaacacccag aggtgccctc 240
gattccgtct tgcacttgcc cttctcccac cgtccagcaa taaagcgaga gaaacaagtg 300
caggaaactg gccggcagtc atgggagaag ccaaaaagac aggagttcag tggcatgacc 360
agggctcact gcaaccttga tctgggctca agtgatcctc ctacctcaac ttcctgagta 420
gctaggacca caggtgtgca ccaaccacac ccgactaatt tttgtagaga tgagatccca 480
ctatgttacc caggctggtc ttgaactcct gggctcaagt gatcatcctg ccttggcttt 540
ccaaagtact gggattatan gcttgagcca cccgtgcctg gcctgtgatc aaaattctca 600
ttttttttagt cactaaaaat gctgggggggc actccattct ncattatgtg attagttcac 660
attgcatgct tgtatcaaaa cattatatnt tcccccncaa atttntncca aaaacttta 720
aattttaagt atttaattgg ttcaggaaaa aaataaaatg ctgggggggc tgaaatctca 780
angggcccat 790

<210> 2675
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 2675
tatactatca gctacttgtt ctttttgcag gatcccatcg attcgctggt ctccaacctg 60
gtctcctggg ctcaagcgat ccgcccgcct cggcctccca cagtgctggg attccaggcg 120
tgagctaccg cgcccggcct atttactttt cttactaagc tggggatcac cgtcgccctc 180
ngcttggcag gaaggcngng gtgcaagaag aaaagaggta cagaacaccc agaggtgccc 240
tcgattccgt nttgcacttg cccttctccn accgtccanc aatnaagcga gagaaacaag 300
tgcaggaaac tggncggcag tcatgggaga accaaaaaga caggagttca gtggcatnac 360
canggctcac tgcaaccttg atctgggctc aantgatcct cctacctcag cttcctgagt 420
agctangacc acaggtgtgc accaaccaca cccgactaat ttttgtagag atgagatccc 480
actatgttac ccaagctggc ttgaactcct gggctcangt gatcatctgc ttggctncca 540
aagtactggg attataggct tgagccaccg tgcctggcct gtgatcacaa ttctcatttt 600

tttantcact aaaaatgctg gggggcactc cattcttcat tatgtgatta gatcacattg 660
catgcttgta tcaaaacatc atattntacc ccacaaatat atacaaaaaa cttnaaattt 720
taagtattaa ttgctcanga aaaaaataaa ngcttggggn gctgnaaact tnaagggccc 780
catt 784

<210> 2676
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 2676
tatactatca gctacttgtt ctttttgcag gatcccatcg attcgctggt ctccaacctg 60
gtctcctggg ctcaagcgat ccgcccgcct cggcctccca cagtgctggg attccaggcg 120
tgagctaccg cgcccggcct atttactttt cttactaagc tggggatcac cgtcgccctc 180
ngcttggcag gaaggcngng gtgcaagaag aaaagaggta cagaacaccc agaggtgccc 240
tcgattccgt nttgcacttg cccttctccn accgtccanc aatnaagcga gagaaacaag 300
tgcaggaaac tggncggcag tcatgggaga accaaaaaga caggagttca gtggcatnac 360
canggctcac tgcaaccttg atctgggctc aantgatcct cctacctcag cttcctgagt 420
agctangacc acaggtgtgc accaaccaca cccgactaat ttttgtagag atgagatccc 480
actatgttac ccaagctggc ttgaactcct gggctcangt gatcatctgc ttggctncca 540
aagtactggg attataggct tgagccaccg tgcctggcct gtgatcacaa ttctcatttt 600
tttantcact aaaaatgctg gggggcactc cattcttcat tatgtgatta gatcacattg 660
catgcttgta tcaaaacatc atattntacc ccacaaatat atacaaaaaa cttnaaattt 720
taagtattaa ttgctcanga aaaaaataaa ngcttggggn gctgnaaact tnaagggccc 780
catt 784

<210> 2677
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 2677
atcagctctt gtctttttgc aggatccctc gattcgaatt cggcacgagg ctgcccaaca 60
cgctgtttgg ggatgtggcc atggtggtgg aattcttgag ctgttattct gggctacttt 120
taccagatgc tcagtatcct attactgctg tgtcccttat ggaagccttg agtgcagata 180
agggtggctt tttatacctt aacagggtgt tggtcatcct cttacagacc ctcctacaag 240
atgagatagc agaagactan ggtgaattgg gaatgaagct gtcagaaatc cccttgactc 300
tgcattctgt ttcagagctg gtgcggctct gcttgcgcag atctgatgtt caagaggaaa 360
gcgagggctc aaacacagat gacaataaag attcactgca tttgaggata atgaggtaca 420
agatgagttc ctagaaaagc tggagacctc tgaatttttt gagctgacgn cagaggagaa 480
gctacagatc ttgacagcac tgtgccaccg gatcctcatg acatactcag tgcaagacca 540
catggagacc cacagcaaat gtctgcacag ttgtggaang aaccgcttgc tgtgtttgaa 600
aggaagaaaa tgattaagaa gaagagcnng antaaaccgn aaaccgggaa agaaaatggg 660
aagnccaaaa aaaaaaaaaa aaaaaaaact cgaaccctct taaaaactat nagtngaggt 720
ccgtattacc gtttgaatnc nggacnttga atnagaaacc attggatgga gttttggncc 780
aaaaccccaa ncttagaaat ggcngnggaa aaaaaatg 818

<210> 2678
<211> 875
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(875)
<223> n = A,T,C or G

<400> 2678
ttnannnnta tacaactact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agggcacgag gcactaagca ggctagtgct ctcagcttcc cggcctcccc ttccaggccg 120
ctgccgcctg accctgtgtc caagagactc caggctgagc tggctgaccg acccaatccc 180
cctacccgcc ctctgcccgc tgacccggtg gtgagaagcc cgaagtctca ggggccagcc 240
aagcccccac ccccaaggaa gccactgcct gccgaccccc agggccggtg cccatcgggt 300
gacctgccgg cccaggggct ggaatcccgc ccctagtggt accctccaga ccaagcgcca 360
ccgncttcga cagtgtcctc gctctacctc tgacctctcc ggaggttccg ctgctccaag 420
ccggacttaa ggcttcaaga ggcgggcgtg ccctctggag tcccctacca tgactgaagg 480
cgccagagac tggcggtgtc ttaanacttc gggcaccgcc acgcgctgtc aagcaacaac 540
tctgcggacc ttcccggcgt aatttgcaac cgggggcttg ggggaagggg cttgggggtt 600
tggaaccggg attgaaggaa aggtnccgca caaacctggt ctttttgntt caaatttgcn 660
aataaaaacg ttgnacaatt ntttgggggа agccggtttt nnnnnnnnan aannnnnnnn 720
nnnnnnnnnn nnnnnnnnna anncccttcg aagccctttt taaaaaactt tttaggggag 780
gtcgnantta acgttnnaat nccnaaaacn ttgattaaag aataccattt ggttgaaatt 840
ttggggacna aancccccaaa anttagaaat ggcgg 875

<210> 2679
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 2679
nnnnnnnccc nnnnggnnng nnnaggnggg gtnnnnnttt ntactaangn tgtgnganct 60
cgtnctctcc gcaacagccc ggcgggtcga attcggcacg agtccaagag gagaagcatg 120
ttccaaaacc cttaactttg ggaatttaga actagctttt ttactatctt ctgcacagca 180
taacttcagt ctccctttac taattcaagg aaatctcagt gaacaaattg tataagggta 240
gatgagctaa aagctcactg agtcattaat ttgtcataac tcatctaaat acaatgatta 300
ggcttgtgta ggtgtcccta gtttctcttt ctaaatcatg tcttagtagg gacagagcaa 360
taatggtgga tcgtggcaac gggaaggaag atgatgtgtc agttatctat tgctgtatga 420
cagtcacaaa accttagtac ttactacaga aacaatgatt tgtcacattt tgtgggttgt 480
ctggatggtt gttttgctta tatggtgcag gctgagatta ctcatgcagc ttcacagttc 540
ttttgcttat atggtgcang ctgagattac acatgcagag gaaagatggg ctctgntcct 600
cattcgtatg cctggggcct tggtgcgggt tgtggcaatg gcgtcttggn tctccatgtg 660
ccgnctctcc agcaggataa cctgtnnttt tctcacacca tgacactggg gttccaggan 720
natcaancca nnancngcta nacccattan naactaggcc ccaaaanttg ct 772

<210> 2680
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 2680
ttntatcagn tcttgttttt gcggatccct cgattcgaat tcggcacgag agatgggtta 60
aaacttaaat gtcacatctg aaacagtaaa aatcctagaa gaaatcctag gaaaaactct 120
tctggacatt ggcctaggca aagaatttat gatgaagacc tcaaaagcaa acataacaaa 180
accaaaaata gacaaatgag atttaattag aaaaacttct gcacagtaaa agtaataatc 240
aacagttaat agacaaccta tggaatggga gaaaatatat gtaaattata catctgacaa 300
agaactaata tccagaatct acaaagaact cacaagaaaa aaaccaaccc cacaagcggg 360
caaaggacat gaacagacat ttcccaaaag aagacataca agcaacctaa aataatctaa 420
aataattttt aaaaagaaaa aatgcttgac agagttttga tagtacttag taaaaagtta 480
tatctagtgg ctttttgntt gnttggtttt gntttggttt taagaggtag tctctgtttc 540
ccagctggag tgcagtggcg caatctttgg ctcgctgcgg cctcgaactc ctgggctcaa 600
gcgatccttc agcctcagcc tnccaagtag ctgntatagg catgcccccc ccttccgact 660
natnatctgc tatcaataca taatggttnc ctttggctta tttangaaat aacactttta 720
tgcttttgaa aaaaaaaaaa aaaaaaactc gagcctntan actntgtg 768

<210> 2681
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 2681
tttnnnnttt taaattatca gcttttgttc tttttgcagg atcccatcga ttcgtggacg 60
gcagagccca agtttcaagc tttccctgtc cagtggaacg aagactaacc tcaccagcca 120
gtcatctaca acaaatctgc ctggttctcc gggatcacct ggatccccag gatctccagg 180
ctctcctgga tccgtaccta aaaatacatc tcagacggca gctattacta caaagggagg 240
cctcgtgggt ctggtagatt atcctgatga tgatgaagat gatgatgagg atgaagataa 300
ggaagatacg ttccattgtc aaagaaagca aaatttgatt cataataatg gcaacggcct 360
angatcagta cctgttgaaa aaaactggtt ctccaccccc cccccataca aaatccacaa 420
aaaagcgcag tggtctcttg tgaatgactg acacagatca gcctcttaca cttgacttct 480
gctcatcaag tgccaattca atggagcagg aggaggggat atcatatatt taggggaaag 540
acttaagcct ttgagctctc cagcttggac cacacattgc ccttttntna gggaaggaaa 600
tggaaacaaa aagccaacag ggcaggggtt ttgtaaagtg gaactcttgg attgactggt 660
cagttgctac aatcaaaata tgctttcttg gaccatgttt gagactcaaa anaatgggcc 720
ttctgncata attctttact tagtcaagaa tgccacagtt tcttttgtnt aaaaaacctg 780
nctttnaaat 790

<210> 2682
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 2682
cagcncttgc tctttgtgca ggatccctcg attcgcccaa atggacactt tgcttgcagg 60
tgatgctgcc gaatgaatac ccaggtacag ctccacctat ctaccagttg aatgctcctt 120
ggcttaaagg gcaagaacgt gcggatttat caaatagcct tgaggaaata tatattcaga 180
atatcggtga aagtattctt tacctgtggg tggagaaaat aagagatgtt cttatacaaa 240
aatctcagat gacagaacca ggcccagatg taaagaagaa aactgaagag gaagatgttg 300
aatgtgaaga tgatctcatt ttagcatgtc agccggaaag ttcggttaaa gcattggatt 360
ttgatatcag tgaaactcgg acagaagtag aagtagaaga attacctccg attgatcatg 420
gcattcctat tacagaccga agaagtactt ttcaggcaca cttggctcca gtggtttgtc 480
ccaaacaggt gaaaatggtt ctttccaaat tgtatgagaa taagaaaata gctagtgcca 540
cccacaacat ctatgcctac agaatatatt gtgaggataa acagaccttc ttacaggatt 600
gtgaggatga tggggaaaca gcagctggtg ggcgtcttct tcatctcatg gagattttga 660
atgtgaagaa tgtcatggtg gtaagtatca cgctggtatg gagggattc 709

<210> 2683
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 2683
tatatttata canctcttgt tctttttgca ggatcccatc gattcgatac actgcatttg 60
ctggtgctgt ttttatatag tgaagcaaca gctgtcagca aaataataaa atactcactt 120
cttcgttaaa aaaaaaaaaa tttacttctt acaattctgg aggccaggaa gaccatgatc 180
aggtgccagc atctgggaag ggccttcttg ctgtcctccc atggcagaag atggaagggc 240
aagggagagc taacatgctc ccgcaaaccc tttttataat ggcatcaatc aaatatgagg 300
ccagagtcct tgtgacctaa tcatctccca gaaggctccg cctcccaacc ctgttgcatt 360
gggattaagt ttccaacaca tgaattgtgg agacaacaca ttcaaaacat agcattccac 420
accttgggct ccccagattc atgtcctcac atgcaaaata aattcattcc atcccaatag 480
cccctaaaaa gtcttaactt gttccagcat caactttaaa gtcaaagtcc aaagtctcat 540
ctaaatcaga tatgagtgag actcaaggca tgattcatca tgagacaaan gatgtacatt 600
tgcaatgttt gtcatgtcag acaaaacaaa aatatgtaaa tatccatcaa tangggaact 660
gctggaaaaa ttttttttgtn taatcataaa atgaaacatg ccgatgttta aaccaatgga 720
gctagatctc aacgtgctga tattggaaat gcttcaaaat gtnttaangg acataaaata 780

<210> 2684
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2684
ttnnnnnttt aatnnnatac agctcttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgaggg gagactgggg tctatttcac ccctgcagtc tcgaccataa gagatggcta 120
cacccagggg ggccagttca gagacccact cccaggtgtg cattctcttt ctcaaggatg 180
ttccttgctg agaaaaagaa ttcagtgata tttctcccat ttgcttgtga aagaagagaa 240
atgtggcttt gttccacctg gctcaccggc ggcagaattt aaggttatct ctcttgtttc 300
ctaaacattg ctgttatcct gttctttttt caaggtgccc agatttcata ttgctcaaac 360

acacatgctg tataatttgt gcagttaatg caattattac agggtcctga ggtaatatac 420
atcctcctca gctgacagga ttgagagatt aaagtaaaga caggcatagg aaatcacaag 480
ggtattgact ggggaagtga taagtgtcca tgaaatcttt acaatttatg tttagagatt 540
gcagtaaaga cangcataag aaattataaa aagtattaat ttggggaact aataaatgtc 600
catgaaacct tcacaatcca tgtttttctg ccatggcttc aaccagtccc cccgtttggg 660
gtcctgactt nctgcaacaa tgtcctgcag gaaaagtttt tctttatatc cagtttttac 720
atgatgaata tttccaatat tcatagttat gangctgaat nctcttgaat ttatnaa 777

<210> 2685
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2685
tattttatca nctctgttct ttttgcagga tccctcgatt cgtttaagga aaaccagcaa 60
ataacaagaa aaccatttaa tgtaaagatt tgtaaataat cacttcaaaa gaagtgcctt 120
gttgctgtca catttagtcc atcttcatat aattcttatc tgggccagtt tcttgggcat 180
gggacatgtg cagttacaca agcctgtgct cttaagaggg tcttacccat agtttaatgt 240
tctgctgttg tagtcttgaa attcttaatg atttaacaag gggtcctcca ttttcatttt 300
gcactgggcc ctgcaaatta catagcccat cctgatttct acaactatag aatagcacaa 360
tgggaattcc atatggatta ataatatgtg acacttacgg ctttttctat acgcttccaa 420
gtacttcata taaattactt catttcattc aatggtagaa ttggtagatg cttaactttt 480
aatgaaagac aaagtcagat tcactctaag gattaaaaaa tatatgtaac attacatttt 540
aaagattttc aaaaacaatt tgttgtggaa atgaattatt gncatgagat attncccact 600
agacggactt cctgtanggt cangggtcct ggtcttctgt anggatgaac caagcttttc 660
ttgaanggcc angtgctaag tgtctcaagc tttgtctgtt aaggactacc cactctgctg 720
gtgtagcaag gaacacanct ggttgcagcc agatnctcaa atgancaagc ctntt 775

<210> 2686
<211> 899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(899)
<223> n = A,T,C or G

<400> 2686
taaatttata caactncttg ttctttttgc aggatcccat cgattcgttc aagcccccag 60
cctacgagga tgtggttcac cgcccaggca caccaccccc cccttatact gtggccccag 120
gccgcccctt gactgcttnc agtgaacaaa cctgctgttc ctcctcatcc agctgccctg 180
cccactttga aggaacaaat gtggaaggtg tttcctccca ccagagtgcc ccccctcatc 240
aggagggtga gcccggggca ggggngaccc ctgcctncac acccccctcc tgccgntatc 300
gccgtttaac tggcgactcc ggtattgagc tctgcccttg tcctgcctcc ggtgagggtg 360
agccagtcaa ggaggtgagg gttagtgcca ccctgccaga tctggaggac tactcccgtg 420
tgccttaccc ccanagtntg taccgcanat ctttcccatg gggctgtctt ncagtgaaag 480
gggacatncc ataatagttt tganagggtg gatgggttac tttgcccacc aaaaacagcc 540
cttagtncca acttccttgc gtttcctttt ggcccctccc ttgccttacc ttaaaaaatt 600
ttgccttgaa aaagggcttt gggaaaangg ggcaaanaat ttgggggggg aacttggtgc 660
ntaanccttt ttaacccccc ccgcnnggga acaattacaa ccangggaan ccctttggn 720

atccttccan tttaaaaana aaaatgtttg gaaaccccaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaacn ttcggagncc ccttttttaaa aaacnttttt agggggggggg cccnttnntt 840
taacctttaa aaatnccccc nnccttggnt ttnggnaanc ccctttttggt tggaagttt 899

<210> 2687
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 2687
nnntttnnnn nntttaatat ttatacacct cttgttcttt ttgcaggatc ccatcgattc 60
gaaaacctgc tgtcaaggct tgaagagccg gcacactcaa tggcaaacac agcaccgagt 120
ctgctctgaa tcctggagga tctggccctc ctctcaaccc ccactcacag tcaccgtctt 180
acaactcagg gccacctggg atcagtcatc agtcagggtg cgtaagcctt gaataccagg 240
tagcctcagg agtgaaaaga taaatgtcct agatcattcc ttattcagtg tccccacctt 300
gcagcgcatt ccaaccacct gggagcattt aaaactccag atgcccacac cacaccctgg 360
ggccacccat cagaccttct ggaagcaaga cctgggcctc catggcccca aaaactccct 420
aggtgatccg atgtgcagcc aaatctgaga ggccccattt aaaaaagaaa gaacatgggt 480
ggtcattgag gagtatttac attttataaa atgacttaaa aatttgaagg cattttgag 540
catttccaat tatatggaag agttacttct acggaatagt ttttgctcat ggaactcaaa 600
cagatgaagc accactgtta cagaataatg tgctccagat gaaaatgtct cgtttctgtg 660
aatttcatga agagcagaac atttctcaag aatcctcttg agccagtaat caatcctgtc 720
tnaaaaaatg ttctttgcct tttctaaata ctgcacaaaa gtgggncatg tcgacatttg 780
tncacccacc ctcn 794

<210> 2688
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2688
ttnannttttt aaacccttttg tnctttttgc accatcccat cgattcgaat tcggcacgag 60
agtatgagaa gggaggatgg gggagaatct gattaaaaaa aatgattcat tccttcacag 120
acactaacaa acatggctaa aaagcacatg tcagaacaca gaagcctagg tagatggttg 180
acatttttat aacttcctta agtgagtagt taaaccagca gtcttaattc tgttggtctt 240
ccaagagtgt ttaattacat aagtattacc tgtattcatt tcccacaact gntgggtttt 300
tctttctttt ttttttttttt tcctctgngc atcctanaaa aactcccagg actagactta 360
ggaggaggca atcaagttat gtggtaaaac aagagtgcct tttctgttgg atatccactt 420
tagtttcctg gcttccaggg cataagatgt ttanaaactt tttttctcta aacataagaa 480
ttattgtgtc cacaattttg aaccaccgat ttccatatct tcagcagcta tcaacttgcc 540
aattcccttt gggtctcctt tgnatattct tatgtttcct tctgnttcca ggtgcctcaa 600
aaagagttga ggggggcatg actcttataa aatggataaa aatgaactgt acagatgttt 660
gcctccttgt tctgtgagca tgactctatc angctggaaa ancgctttat cattttggat 720
atttgaccat tttggattca gcattacttg actccttatg tgcnttggca atgtt 775

<210> 2689

<211> 1157
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1157)
<223> n = A,T,C or G

<400> 2689
nttncctnng naaaaaaccc nccnttttaa aantttcaaa attccccccc cnttttttt 60
ggaacccccc cnttttgncn aaggaaaaaa cccccaannc agnaacttnt tttaaatnta 120
cgggggacca caggnaggcc aggcaccctg tcccaaatgc cccggnacnt ttttatttaa 180
ccacccaaac aagaaaacng agaantacgc caccccgggn annggccaaa aggnagnaag 240
gngggaacaa gcntnaccnt gtgnctngca acanacangn gtggcnngaa ancanccagg 300
actcnccggt acatcaaatc gcccannngg cgcncnncat gttcttaacc anccggaata 360
ggggacaatc aattggttgn cntttgngcc tgccgaaaag ctagctggnn anatctgccn 420
ggttaaataa gccccnttaa acggaagggc anangggggn aacnnaanaa ggtnangcca 480
ttcccgccca ccggaatgaa gnaatgggga ancccgcctt ggngggggna agtcangcan 540
aaacggcttg acgnaaaaac aaanccattc ncccccaant tnngtnaang gnncccaang 600
aaatncnncc acgngcnaag ncccccccngg gcnaatgnnc ccaaatcccc tcccatttnn 660
atnttatgna aaccaccttt ngggggaaaa aaaaaaaaag nccntttntt ngaaaggaaa 720
gggttgcccc attgggctat gggaaggngn ncnnccccaa attanaaaan ttnngggnga 780
naaaaaannn gggcnncccc gntttggggg ncgnctttgg gcaaaccacc ccccgtgccc 840
ccaaaaangc ccaatgggta ntccctaaaa aaaaaagttc ccccntttng tgggaaaaan 900
cccccgggag agggccccgn gtttcaaagg gggaanaatc ccaaaaaaaa ccnaatccta 960
naanggccaa anggnggtnt ncctnaaann nnggnaatng ncaaaaggnn ggngaannaa 1020
accnttgggg anggcngaat ttnccccctg gaaaaacccg ggggggnncc cctcnccgna 1080
ananaaaaaa aaccnnttca aaccnngggg gccntcncgg ggtgcccgga acncnttttg 1140
aaaagatcca cnncccg 1157

<210> 2690
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2690
tatacanctn ttgttctttt tgcaggatcc ctcgattcgc gacaatcagt gattttgctg 60
tatttctcac aatagtaata atggttacaa ttgactacct tgtnggagtt ccatctccta 120
aacttcatgt tcctgaaaaa tttgagccta ctcatccaga gagagggtgg atcataagcc 180
cactgggaga taatccttgg tggaccttat taatagctgc tattcctgct ttgctttgta 240
ccattctcat ctttatggat caacaaatca cagctgtaat tataaacaga aaggaacaca 300
aattgaagaa aggagctggc tatcaccttg atttgctcat gggtggcgtt atgntgggag 360
tttgctctgt catgggactt ccatggtttg tggctgcaac agtgttgcaa taagtcatgt 420
caacagctta aaagttgaat ctgaatgttc tgctccaagg gaacaaccca agtttttggg 480
aattcttgaa cagcnggtta caaggctaat gatttttatt ctaatgggcc tctctgtgtt 540
catnacttca gtcctaaaga ttattccaat gcctgttctg tatggggttt cctttatatg 600
ggagtttcct cattnaaagg aatccagtta tttgacccgt atnaaatatt tggaatgcct 660
gcttaagcat cagcctgatt tgatatacct ncgttatgtg ccgctctgga aggccatatt 720
ttacagtcat tcagcttact tgtttggtcc ttttatnggt gataaaang 769

<210> 2691
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 2691
tattttatac agctnttgtt cttttgcagg atccctcgat tcgaattcgg cacgaggcca 60
ggtgtcattg cacatgcctg cagtcctggc tactagggag gctgaggcag gagaattttt 120
tgcacccaga agttcaaggc tgcagtgagc tatgatcaca ccatggcact ccagcctggg 180
caatagaatg agacccagtc tctaaaaaag tagaagttaa aaaaaaagat taagaataga 240
tgtagggcag cagaatttcg aacttctttt cagcatcaca atactttaaa acagtgattg 300
tcatctgcct caaacccatt gcctctcaca taggaaatat tttgaaacat atttttagt 360
accttgaaat gaaattcatg ataattaacc catctacaca cattttaaa aatcaatata 420
gggccctaac agcaatataa aggggaaata aaaagaaact aattgtaata aaataatatt 480
gatttcaata agtacattct agcccagtgc ttataaattt taatgtgcat atgaatcatc 540
cagcattctt attaaatgca gattctagtt cagtagattt tggttcagta ggtaagccct 600
gagatttggc atttctagca gctnctagat gatgcccaca ctgctgttta gtaaagagca 660
tactttgagt agtaanggcc gaaaagtata aaaaaaaaaa aaaaaaaaaa aactcggcct 720
ctanactata ggagtcgtnt tacgtanatc cngactgata agatcattgg tgagtt 776

<210> 2692
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 2692
tatnnataca acttttgtt ctttttgcag gatcccatcg attcgcagct ctgcacccag 60
ctgcttctcc agggagccct ccctcactgg agactgggat ttagcaacca agacctgggc 120
actggctgtg cttgttgctt ctgggccctc ctgggacaga gctgggaagt ggatctatga 180
cacgtgcttg tgcatttacc cgccctgttg gtttctgtag ctgtctagtt cctgctgttc 240
ctgtctcacc tgccccttc cttatgtgta gtttcttcct gtgacaggga gaaacctggc 300
tctcagattg acaggacatt cgcttaggcc atgtcagtgc tgtaggtgaa ctgttcaacc 360
tgtgccccag ggaggcgcag tcactatgga ggcaccttac ttccttaatc gtgtactggt 420
gtttttgtgt ttgacctgta gcatctaagt actggtttca aaagttgcct agatgagttc 480
ttttctttct ttcacctcct gcaaattatg tgatttgcat aatttgtaca taagttaggt 540
tcatttgtta gtttgtattc cttttggctt cccccatatc ctcgttgact ttttctttct 600
tttgtaactt acatatgtta tgaaattata tgaggatata taatttcata aatgtttatg 660
ggttacatgt attaattggt attattaaaa ncaccctggg attgactggc caaccatttg 720
gtggaagata gcaataaata atacatcata aaagacttta atgtaaaaat aaan 774

<210> 2693
<211> 816
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 2693
nnntttanta tntntacagc tntcggctnt tgcacgatcn catgatccca tnnattnngn 60
ttaattccct gaatcctact tgaacattgt ataaatttct ctttgcatat aatacatatt 120
tgtgaatgag acatattccc aaaaaattct tatctctgta tgtgattgga aaagaaaaga 180
tcacatttgt atattcaaca atctttcacc tatttcataa gtcatttttt caccctgtat 240
agtatgggaa ttatttttta tgttaaatag aaactgaatg tactgggttg aatggtgtcc 300
tctccaaaat tcatgtactt cctggagcct cagaatgtga ccttatttgg aaatactgng 360
gttgtggttg taagtagcta agatgangtc atactggagc agggcaggcc cttaatccaa 420
tatgactggt gttccttata aaaaaaagat aanggcgggc atggnnggct cacgcctgta 480
atcccagcac tgtgggaggc caagccaggc aaatcgcttg aggctgagga gttcaagacc 540
agcctggccc aacatggcga aaacccatct cttctaaaaa taaaattagc catgccgtgg 600
tgcttgtaat gtcagctacc ccaagaatct gangcacaaa gaatcacttc gaacctggga 660
agnggaggtt gccanaaccc caccactggc actncagtgt ggagcaacaa aaccgagact 720
cttgtcttca aaaaaaaana nannaaannn nnnnnnnanc ctcgnancct ttaaaacttt 780
agggaggccg tntttacgta natcccaaac atggat 816

<210> 2694
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 2694
ttattttata cagctnttgt tctttttgca ggatccctcg attcgaattc ggcacgagga 60
tgaggagtgt ttaatcattg atacagaatg taaaaataat agtgatggaa agacagctgt 120
tgtgggttct aacttaagtt ccagaccagc tagtccaaat tcttcctcag gacaggcttc 180
tgtaggaaac cagactaata ctgcttgtag tcctgaagag tcatgtgttt taaaaaaacc 240
tatcaaacga gtatataaaa aattgatcca gttggagaga ttttaaaaat gcaggatgag 300
ctcttaaagc caatttccag aaaagtacca gaattgccct taatgaattt agaaaattct 360
aaacagcctt ctgtttctga gcaattgtct ggtccttcag actcctctag ttggccgaaa 420
tctggatggc cttctgcatt tcagaagcca aaaggacgat tgccatatga acttcaggac 480
tatgttgaag atacatcgga atacctagct cctcangaag gaaatttgt ttataagtta 540
tttagcctgc aagacctgtt gttactcgta cgctgcagtg tccagaggat agagacaaga 600
ccacgttcta aaaaaccgga agaaaatcag aagacaattt ncagtttatg tnctacccaa 660
agtagagtat caagcttggt tntggagttt gaagctcttg actgaaagtg gactttgtcg 720
cttatngact ggaaagttta ttgctttcca ccagctcatt ttatgtttgg gcatatcgat 780
gccntt 786

<210> 2695
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 2695
ttattttata cagctnttgt tctttttgca ggatccctcg attcgaattc ggcacgagga 60
tgaggagtgt ttaatcattg atacagaatg taaaaataat agtgatggaa agacagctgt 120
tgtgggttct aacttaagtt ccagaccagc tagtccaaat tcttcctcag gacaggcttc 180
tgtaggaaac cagactaata ctgcttgtag tcctgaagag tcatgtgttt taaaaaaacc 240
tatcaaacga gtatataaaa aattgatcca gttggagaga ttttaaaaat gcaggatgag 300
ctcttaaagc caatttccag aaaagtacca gaattgccct taatgaattt agaaaattct 360
aaacagcctt ctgtttctga gcaattgtct ggtccttcag actcctctag ttggccgaaa 420
tctggatggc cttctgcatt tcagaagcca aaaggacgat tgccatatga acttcaggac 480
tatgttgaag atacatcgga atacctagct cctcangaag gaaattttgt ttataagtta 540
tttagcctgc aagacctgtt gttactcgta cgctgcagtg tccagaggat agagacaaga 600
ccacgttcta aaaaaccgga agaaaatcag aagacaattt ncagtttatg tnctacccaa 660
agtagagtat caagcttggt tntggagttt gaagctcttg actgaaagtg gactttgtcg 720
cttatngact ggaaagttta ttgctttcca ccagctcatt ttatgtttgg gcatatcgat 780
gccntt 786

<210> 2696
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 2696
ttnctngttc tttttgcagg atcccatcga ttcgcgccgg tagcggctgg gtctggagcc 60
ggccgaggga gacggtcggc agccacagtg gcggcttggg gcggatgggg cggcccggcc 120
gcgggcctgg taacattctt gcttgcaact tgcggcaggg ccaacttgac cggccgggcc 180
ctggtccggc cgggtgcaag ttcaattgag aacttttttg acggaagagg ggaccaaacc 240
attccaagtg ggagtggaat tcctcagctg cttcctcaag ctgcacacca ccagccacct 300
tcacagtgac tttgttgagt gtcaaaacat ctcaaggaaa tttctcctct tctctncatg 360
gaggctatgg cattggtact gaagagagga aacttaccca agaaaccact tatncaaata 420
cttacatttt tgacttgttt ggangtgttg atcttcttgt agaaattctt atgangccta 480
cgatctctat ncggggacag aaactgaaaa taagtgatga aatgtncaag gactgcttga 540
gtatcctgga taatacctgt gtctgtcaga nggagttaca aagcgtttgg cagaaaagaa 600
tgactttgtg atcttnctgg ttacattgat gaccaagtaa agaagacatt nttacaaaca 660
gnaacccttc attgaagata ttttgggtgt tnaaaangga aatgatccga ctngatgaag 720
tccccaatct gagtccttaa nttccaattc gatcaanaac aantcgctta atttttgccg 780

<210> 2697
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 2697
nnntttnnnn nntttaatat ttatacacct cttgttcttt ttgcaggatc ccatcgattc 60
gaaaacctgc tgtcaaggct tgaagagccg gcacactcaa tggcaaacac agcaccgagt 120
ctgctctgaa tcctggagga tctggccctc ctctcaaccc ccactcacag tcaccgtctt 180
acaactcagg gccacctggg atcagtcatc agtcagggtg cgtaagcctt gaataccagg 240

tagcctcagg agtgaaaaga taaatgtcct agatcattcc ttattcagtg tccccacctt 300
gcagcgcatt ccaaccacct gggagcattt aaaactccag atgcccacac cacaccctgg 360
ggccacccat cagacctttct ggaagcaaga cctgggcctc catggcccca aaaactccct 420
aggtgatccg atgtgcagcc aaatctgaga ggccccattt aaaaaagaaa gaacatgggt 480
ggtcattgag gagtatttac attttataaa atgacttaaa aatttgaagg cattttgag 540
catttccaat tatatggaag agttacttct acggaatagt ttttgctcat ggaactcaaa 600
cagatgaagc accactgtta cagaataatg tgctccagat gaaaatgtct cgtttctgtg 660
aatttcatga agagcagaac atttctcaag aatcctcttg agccagtaat caatcctgtc 720
tnaaaaaatg ttctttgcct tttctaaata ctgcacaaaa gtgggncatg tcgacatttg 780
tncacccacc ctcn 794

<210> 2698
<211> 696
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G

<400> 2698
aaatngcnag gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagaa 60
gaagaactta tcgattcctc tcctctcagt gacaaccaaa gaatggataa attagagaaa 120
accaacagca gcttacgcaa acagaacctt gacctccttg aacagttgca ggtggcaaat 180
ggtaggatcc aaagccttga ggccaccatt gagaagctcc tgagcagtga gagcaagctg 240
aagcaggcca tgcttacctt agaactggag cggtcggccc tgctgcagac ggtggaggag 300
ctgcggcggc ggagcgcaga gcccagcgac cgggagcctg agtgcacgca gcccgagccc 360
acgggcgact gacagctctg caggagagat tgcaacacca tcccacactg tccaggcctt 420
aactgagagg gacagaagac gctggaagga gagaaggaag cgggaagtgt gcttctcagg 480
gaggaaaccg gcttgccagc aagtagattc ttacgaactc caacttgcaa ttcaggggggc 540
atgtcccagt gttttttttg ttgtttttag atactaaatc gtcccttctn cagtcctgat 600
tactgtacac agtagcttta gatggcgtgg acgtgaataa atgcaactta tgttttaaaa 660
aaaaaaannn nnnnnnnnnn nnnnnnnnnn nnnnat 696

<210> 2699
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 2699
ttagccttgn nttttgcnga tccctcgatt cgaattcggc acgagaaaaa cctgggtatg 60
tatctagaag tggaaaaaca aaaaaaggaa ataagttatg aaaataaaaa ccatgtcttg 120
agctgggtgc gctggtgtgt gcctatatcc ctagattctc aagaggttga gacaggagga 180
tcacttgagc ccaggagttc aagtccaact tgggcaacat gacaagaccc ttgtctcttt 240
aaaaaagcaa ctcaaaccat gtcttgaaaa gctatttaat ggtcagacac gatggctcac 300
gcctgtaatc ccagcacttt gggaggccga ggcaggcgga tcacttgagg tcaggagttc 360
aagaccagcc tggccaacat ggcaaaaccc agtctctact gaatgaaaat acaaaaatta 420
gctggcctag cagttggtgg tggcaggtgc ctgtagtccc agctacttgg gaggctgagg 480
caggagaatc gcttgaattt tgggaggcgg aggttacagt gaacccacat ggcgccactg 540
cactccagct tgggtgatag atgagactct atctcaaaan aaaaanaana aaaactcgag 600

cctntagaac tatagtgagt ctattacgta gatccagaca ttgataagat ncattgatga 660
gtttggacaa accacnactn ggaatgcagn gaaaaaaaat gctttttt 708

<210> 2700
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 2700
tnctaanncc ggctatngtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
ttgtgtgaga tttgatcata gtctaaaact atcacgtctg agttgcctta ggatgacagt 120
gctgacaccc agtaggaagt atcccatttt tatcaggaaa gtcagtcacg cgtagggatg 180
gtgaggagac gcgtagggat ggtgaggagg ggagaggagg gagacctgct ggtgcccttg 240
caccagggtg aggcctgact cacgctgctt ccccccacag gccctgcttt gcttgcctgc 300
tttttccaga atcgattttg caagcttcaa gattctgttc ccctcttcgc agaagtgagg 360
aaggcaaata ctcagggttt gaagggagac ctggccggcc tgagggctgg cagatgtgag 420
ggcaggacac ctgggatgga ctcgtaggct gacccaggcc caaagggggc tgcctgttcc 480
caactctttc actctgtaac ccattttaaa atgagttttt gaatcttgcc tcaaattgac 540
ctacttggat aaaatcagtg cttttcctaa cttgattttg tttgacgtgg ttccctctaa 600
gagaatggta ggaattgaaa ctatttgtat atgttgaaat ttgtaggggt tcaggaaccc 660
atggcagaaa cactaaacta tttatttaca agtatgacta ttttttttcc aaaagtaggc 720
aattctttgt atattttaag gcaaataatc acttcacctt ctggtgcctt cc 772

<210> 2701
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2701
ttaacntnca gctacttgtt ctttttgcag ggatcccatc gattcgctgg accgggtctt 60
ggtgctttcc agctcagggc gttggtccac ttggttattc ttggggacca aaatccaagc 120
taggatgggg acagaggcct ggagacaacc tgctggcctc cttccattaa agccattaca 180
gtgtcaccac aggattgtaa gaattacaaa tgcgttttcc agagtcccca gagaaaaagg 240
agtctggcag ttagaagagt aaagtgcatc tgtcaacaaa agaaatacca aagatgagac 300
tacagcagcg acttgtcacc tcttccgtgt tgctactgcc tgagaacaga ggtttttagt 360
ttctttaaag ggttgtaaac ataaaaacaa agaaggatac aacatgcaag gcctaaaatg 420
tttactttct ggccttttac acaggcagtt cgccagcccc ctaccctaca gtatggaaaa 480
aaggcataga acagtcaaat cacgtaggat ttcttggttt ctccatgcag gctcatcgaa 540
tagcaaccat cctttcttag tttcttgaaa caagtacctt atttacattc agagaattat 600
atgtggacaa acagctcata agcccgtact tttacatact cacttcctga attgcatatt 660
gaaaaagaga gttcatgtaa agccgattat tatttaatct aaagttatgt tcacatagga 720
agcactagtg tagagaaata gggtctgang gacaaggagc ctgtgtgccc gtgtcgg 777

<210> 2702
<211> 777
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2702
ttaacntnca gctacttgtt ctttttgcag ggatcccatc gattcgctgg accgggtctt 60
ggtgctttcc agctcagggc gttggtccac ttggttattc ttggggacca aaatccaagc 120
taggatgggg acagaggcct ggagacaacc tgctggcctc cttccattaa agccattaca 180
gtgtcaccac aggattgtaa gaattacaaa tgcgttttcc agagtcccca gagaaaaagg 240
agtctggcag ttagaagagt aaagtgcatc tgtcaacaaa agaaatacca aagatgagac 300
tacagcagcg acttgtcacc tcttccgtgt tgctactgcc tgagaacaga ggtttttagt 360
ttctttaaag ggttgtaaac ataaaaacaa agaaggatac aacatgcaag gcctaaaatg 420
tttactttct ggccttttac acaggcagtt cgccagcccc ctaccctaca gtatggaaaa 480
aaggcataga acagtcaaat cacgtaggat ttcttggttt ctccatgcag gctcatcgaa 540
tagcaaccat cctttcttag tttcttgaaa caagtacctt atttacattc agagaattat 600
atgtggacaa acagctcata agcccgtact tttacatact cacttcctga attgcatatt 660
gaaaaagaga gttcatgtaa agccgattat tatttaatct aaagttatgt tcacatagga 720
agcactagtg tagagaaata gggtctgang gacaaggagc ctgtgtgccc gtgtcgg 777

<210> 2703
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 2703
cctaancgct tggctactcg nnctctctgc aggcatccca tgcgattcgg gtagttaagc 60
ccccccaaaa caagacggna aagtgaaaat acttcagata aacccaaaag aaagaaaaag 120
ggaggcaaaa atggaaaaaa tagaagaaac agaaagaaga aaaatccatg taatgcagaa 180
tttcaaaatt tctgcattca cggagaatgc aaatatatag agcacctgga agcagtaaca 240
tgcaaatgtc agcaagaata tttcggtgaa cggtgtgggg aaaagtccat gaaaactcac 300
agcatgattg acagtagttt atcaaaaatt gcattagcag ccatagctgc ctttatgtct 360
gctgtgatcc tcacagctgt tgctgttatt acagtccagc ttagaagaca atacgtcagg 420
aaatatgaag gagaagctga ggaacgaaag aaacttcgac aagagaatgg aaatgtacat 480
gctatagcat aactgaagat aaaattacag gatatcacat tggagtcact gccaagtcat 540
agccataaat gatgagtcgg tcctctttcc agtggatcat aagacaatgg acccttttg 600
ttatgatggt tttaaacttt caattgtcac tttttatgct atttctgtat ataaangtgc 660
accgaaggtn aaaaagtatt ttttcangtt gtanataatt tatttaatat ttaatggaaa 720
gtgtatttat tttaccanct cattaaacnt tttttaaacc aaaanaanac nntctnnnnn 780
nntccc 786

<210> 2704
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)

<223> n = A,T,C or G

<400> 2704
gngaggnnnn tttnnaanat cagctacttg ttctttttgc aggatccctc gattngaatt 60
cggcacgaga tttgaggacc tcagacattt ttaaaaatgt aaaggggtg gggtcaggct 120
cagtggctcg tgcctgtaat cccagcattt tggagggccg aggcgaacgg atcacttgag 180
gccaggagtt tgaggctagt ctggtcagca tggtgaaacc ccgtctccac taaaacaaaa 240
agttttctgg atgtggtggc acacatacct gtaatcccag ctactttggt ggctgaggca 300
tgagaatcac ttgaacccag aagacaggtt gcagtgagcc aagattgtgc ccctgcattc 360
tagcctgggt gacagtgaga ctgtctcaaa aaataaaggt gtacagggat tgtatatttg 420
acaacttggt atgtaggatg tgctacctct aatgttccat gctgttactt agttttcact 480
cactactata ttttggagat ttgttcatat tgctctgtgt acatttaatt cttcagtgtg 540
tatccaccac atttaactta ttcacttaca gaactatgca agaatttctc tggtaaattt 600
cactaagtac ttatgtactt ttcagaacga ttgtgagttt acacccctac cagcaggact 660
gagttgagta cccatttcct cacatncttg ccagtcttca tttgcctaat tttgccattc 720
tcataatgtg gcaattgtca a 741

<210> 2705
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 2705
ttnaaatcgc tnggctactn gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggtaagttat ttgttaagtt agaaccctca gtgcatggtc tagggatctc tggaggtccc 120
caggaccctt tcagagaagc catgaggtca aaactgtttt cataagcaga accaaaacat 180
tatttgactt tttcaatgca ttggcatttg cattgatggt acaaaagcaa ggatgagtaa 240
aatgggtgat tccttagcgt gatcaagatg gtagtaattg tactagtagt cattgtattc 300
ttcactgcca caatttttt taaaactacc aattttaatt aagaatgtta gtcacagttg 360
tttaaaagct cagaactccc attaaaaaaa aatttaaaaa agaatgtctt tggtaaagca 420
gcaaaaactg gatgaatttt attaactcta gagccttgag taaacatctt ttcaggattt 480
tgtgtgttga aatagaaagt atgggccagg tgcagtagct catacctgta atcctagcac 540
tttgggaggc tgacgtgagt ggatcgcttg agcctaggag ttccagacca gcctgggtaa 600
catagtgaaa accctgtctc tacaaaaaat acaaaaaaat tagctgggtg tngtggtgtg 660
cacctggtgg tgtcagctac tttgggaagc ttgaaggcaa naaaggant 709

<210> 2706
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2706
gagaggnntt ctaatncnng ctacttgttc tttttgcngg atccctcgat tcgaattcgg 60
cacgaggtgg atacctctag tgcaatttat aagcaatatc gtttacaaaa ggttacagag 120
aagtatccag aattgcagaa tttacctcaa gaactctttg ctgttgaccc aactaccgtt 180
tcacaaggat tgaaagatga ggttctctac aagtgtagaa agtgcaggcg atcattattt 240

cgaagttcta gtattctgga tcaccgtgaa ggaagtggac ctatagcctt tgcccacaag 300
agaatgacac catcttccat gcttaccaca gggaggcaag ctcaatgtac atcttatttc 360
attgaacctg tacagtggat ggaatctgct ttgttgggag tgatggatgg acagcttctt 420
tgcccaaaat gcagtgccaa gttgggttcc ttcaactggt atggtgaaca gtgctcttgt 480
ggtaggtgga taacacctgc ttttcaaata cataagaata gagtggatga aatgaaaata 540
ttgcctgttt tgggatcaca aacaggaaaa atatgaacat gatattttat agcttgggaa 600
gaaacttgca gatgatatgt gctgcctttg cttcttatca ttcatggcag atgtttgtgc 660
tttcaacatt tcatttgaaa tgggagaaga taaaatcact tgatgtacct ggaaactatg 720
ctttacatgg caatcaaagc cttt 744

<210> 2707
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(699)
<223> n = A,T,C or G

<400> 2707
naatcgctag gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagcta 60
tgatcaggac tgactaggta gttggcatgg cccatagaga acaaggaaag atgggctggt 120
ggattggccc acctgggagc cacatggggc aaggggagcc ctcaccctca gccagccaga 180
cgagtgggat ttccccccagc acagcatacc cccttcacaa agggacaact aaagtgcttc 240
attaagcaag tcctggatcc tgtgcccccc aactgggtga gacaccccaa tgggtcacca 300
gacaccttat acaagagcat ttctactggc atcaggtggg tgcccctcaa ggacagagat 360
cccagaggaa ggagtggggt ctcatctttg ctgttctcca gcactctctg gtgacatctt 420
caggtgtggg agggacccag ataagtaggg cttgaagtga atccccagca aactgcagca 480
gccctacaga agaggtgcct gactgttcaa aggaaaacag aaagcaacaa caacatcaac 540
caaaaagtcc ccacgaaaac ctcatctaaa ggtcagcagc ctcaaagatc aaaatgagac 600
aaactcatga agatgagaaa ggaatgaaaa acccctcaca actcaaaagg ccagantggc 660
ttgtttactc caaatgatca caacacctct acagcaagg 699

<210> 2708
<211> 692
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(692)
<223> n = A,T,C or G

<400> 2708
tacangctac ttgttctttt tgcaggatcc catcgattcg aattcggcac gagagaacag 60
ggagaagaga ggaagaggga gctgcaggtg ccagaagaga acagggcgga ctctcaggac 120
gaaaagagtc aaacctttt gggaaaatca gaggaagtaa ctggaaagca agaagatcat 180
ggtataaagg agaaaggggt cccagtcagc gggcaggagg cgaaagagcc agagagttgg 240
gatgggggca ggctgggggc agtgggaaga gcgaggagca gggaagagga gaatgagcat 300
catgggcctt caatgcccgc tctgatagcc cctgaggact ctcctcactg tgacctgttt 360
ccaggtgcct catatctcgt gactcagatt cccgggactc agacagagtc cagggctgag 420
gaactgtccc ccgcagctct gtctcccttg ctagagccca tcagatgctc tcaccagccc 480
atttctctac tgggctcctt tttgactgag gagtcacctg acaaggaaaa acttctatca 540
gtactttgat atgtcacagt ttcatgttta tccagttcaa tgtattttta aatttttcct 600
tgagacttct ttgactgata gattattgtg aatgtgtttt taaatttcca aatgtttang 660

gattttcata tctttcttat gctgatttcc aa 692

<210> 2709
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 2709
gcnnnnnntn nnnttgcnaa tcgctaggct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagttttt tctaatccaa acgcacttct ctttattcaa accagggtca 120
aactggtcaa tgggaaacgc cctgaagcca cgtgcctggg gagaaaggct tcctactcgg 180
ttcggttcag cgctgcgtgg gatccacgcg gctggctgtg cgcaaccccc acagttcacc 240
tcagacacta ccaagcaggt cagtcgacaa aagcaaggaa ttaaacaaaa aacagaaata 300
cactcagtag atttcttcta gaagctccca gagtttctgg accaccaagt cccaaccccc 360
aaagccagga gcgaggggac taacagcgca ccccctccac cagtgccgac ggaaaccccg 420
ttttaaatta aaaaataagc cagtatacat cgtagaaaat ttctcttaaa aatctcacaa 480
tttgtaaatg tatatttttt ctttaacata aaagtttaca atataccgta aaacaaaagg 540
ctcaggaaaa taatttccaa aaaaaaggaa gaaaaagaaa cctgaagttt tgaattaaag 600
ctgaagacat ttttttaaaa ccctgttgtt gaaccagtga ctttttttta ttgngctgat 660
gggttagaga aagaaatatt taaaaacaaa nanannnnnn annnnnnnnn nnnnnnnaa 719

<210> 2710
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2710
gncnntnttn acttccnaat cgcttggcta ctcgtnctct atgcaggatc ccatcgattc 60
ngacagactc gtctnatcag agatggggag aangtcgaag cctatcantg gagtgttagt 120
gaanggaggn ggataaaaat tggngatgtn gttggctcat cnggtgctaa tcancnnaca 180
tctgnaaaag tnntatntga agggananaa tttgattatg tnttctcaat tgntgttaat 240
gancgtggac catcatataa nttgccatat aataccagtg ntgaccctnn nttanctgcc 300
taccactnnt tacagancnn tnanntgaat ccnntgttnn nngntcaact ncnttaantc 360
atnantggtn acacataagg tnatangntg gnactngaga atnccagntt nncagatcca 420
tttacangcn gtnncacggn atgtcacnnc tctnctngat ctnntgacnc actgcccacn 480
gctgatcctt tnncaantgc tgnanngnat gtaccacatt ctgaatgtat cnnaactncn 540
atnnnctgat aancatccat ntcagggaan attgcctccc natcngnatg cntntaaaac 600
aatgaatctt gggcccctna tanctaggct gncacattat gaccangctt accctacacc 660
aatattangt aaactgaaat gaactttatg gaactgnnnt nntagcacaa ntttc 715

<210> 2711
<211> 721
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 2711
ttnaagcctn tnttnanttt caaatcgcta ggctacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgaga ggaggaaagg gaactccctg acccccttgtg cttcccaagt 120
gaggcaatgc ctcgccctgc ttcggctcgc gcacggtgcg cgcacccact ggcctgcgcc 180
cactgtctgg cactcgctag tgagatgaac ccggtacctc agatggaaat gcagaaatca 240
cccgtcttct gtgtcgctca cgctgggagc tgtagaccgg agctgttcct attcggacat 300
cttggctcct ccccaagagt tctggagtct gagaagtcaa ggatcggggt gctggcctat 360
tcagttcctg gtaagggctg tcttcctggc ttgcagttga actacttctt gctgtgtctt 420
cacaagcatg cccccatcct gtgccgataa gaactccana ccccaaactc agctcataca 480
cacacggaag agagaagcat ctgaacatca agaagagaan aagctgctgg acatcagaaa 540
ctgtgaaagg agaggagttt ggctgagctc caggggaaga ctgcctgcac attctatccc 600
cttttcagtt ccccatcctg ctgtcagcca catttaccac tcaataaaat cttcacattc 660
accatccttc aaaaaaaaaa aangaaaaaa ctcgagcctc tagaactata gtgagtccga 720
t 721

<210> 2712
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 2712
gcngntnttn antttcaaat cgctnggcta cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggataaa tacctcagcc cctcgccttc ctcaacccac ctggcaagtc 120
ttcttaggat ctgatcccag ttttctggaa gcaatcctac cccagcccaa gcttcccaga 180
gtcgagcctt aatccttctc acttctcagt gtcagagcag aaatgaatcc tggggttgac 240
tgtgtccatt cgggttatta gcagctaaga agcccagacg agtagtgtga gctgccttgg 300
gagcctcagt gagggcactg ggactggcct cactctcttg cccccagcct agtgggcttt 360
ctcctctgtc tctccggtgg ccccaggcaa tcgactgcat cacgcaggga cgtgagttgg 420
agcggccacg tgcctgccca ccagaggtct acgccatcat gcggggctgc tggcagcggg 480
agccccagca acgccacagc atcaaggatg tgcacgcccg gctgcaagcc ctggcccagg 540
cacctnctgt ctacctggat gtcctgggct agggggccgg ccaggggctg ggagtggtta 600
gcccggaata ctggggcctg ccttagcatc ccccatagct tccacagccc cagggtgatc 660
tcaaagtatc taattcacct taacatgtgg gaagggacag gtggggcttg g 711

<210> 2713
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 2713
nttnaacata cangctactt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggtgaaagag ttcatgacct ccttgcgccg ggcctggtgc tctgcgatca agggctgcag 120

aaccagnccc ngngcntggt ggncntgacc tcttacannn cgtgccgtat tcnaatcgtt 180
ggtatcctgc tcaaggactg tagctcntnt acganaangn tnacnnacnt gatagacacg 240
tccacatcac anttgccccc aaactgcctg tgctcctcna tggtgtctct ccctccagaa 300
aacgcatgct tattgacctt ggttttgatc tgcttggccg tgtcggtgag gaagatggag 360
gagttggggt cgctggcact cattttggtc tgggcgccct gcanggctgg gaagaaggtg 420
gagtgcacat gggataaggc actggatatc cgtcctgtct cggaagatct gtgggaatga 480
gttgctgaag gagggagcan cctgnatggc angaaaactg atcttcccaa tgcantcgct 540
gtcantgaag ccgaaaatgc ctttcacttg gttgaaggta acatgctttt gaatcttcac 600
cacatttttg tanaaacctg aactgctcta naactatant gagtcntatt acntanatcc 660
anacatgata agatacattg atgaatttgg acaaaccaca actagaatgc antgaaaaaa 720
atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta c 771

<210> 2714
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2714
gngagnnnnn tttttaanat cagctacttg ttcttttngc aggatccctc gattcgctca 60
aaaccaaatc tcaactcagc tacagaatct actgtggtcc ttgtctgaaa aaattagttc 120
actcggttgg aatcttgtct cagagcatcc tcatctcttt ctcaaaagcc cctaccccaa 180
caccggcgtg ttggttgtct attgaaactt acaagtggat ggacccttc tcccgaataa 240
actggccttt gaaagctcta atcgaaatgg tttggcaaaa tccatactgc aggagattag 300
ggaggacaag aatgatgtgc ctttttgtac tgctgagcct gatggtggtg ccactacttc 360
aggtacttag atgagtcttg atgctaatag aattgtgtcg ccaaacatat ctggacagtt 420
acaacctaat ctatgcatta attggtttgg gaattgcttg aaattattgn ttaattcaat 480
gttttaattc gttttcctaa aaatttaagt gcccccatca tcgtgcaata cctcagtgca 540
gcaactcctt gattcttgga tgactgaact tnctaacttg actctgccca ttggtcccat 600
ttttcatgtt tttcacaaat agttaaccag gtacctacta ctgtgcaccg ctgcagaagc 660
attgaaggat gtatgtgatg agtnaaaaca cccaacctgc tctgctgngt taggattatg 720
acngaaactg gtcaaaatca catgtgaaca aa 752

<210> 2715
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2715
gnnagnnnnn nnnnngnnng ntttnnaaga ncagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga gggaaccccc accattaagc taaagtaaaa ccctttgag 120
ggaagaggga gactggggag aagggaaaag agagaaggca gggagagtag ggagagaaaa 180
ccttccagca gcccagtaaa ctgcgggcga agagatctac ccgtctccct ccctcccaca 240
gttaccattg gccttgtcat cgcaagcatt tgacaaagac ttgcttgtct tgggcctgtc 300
acctcctgaa aggctgcttt agctgtggat gcccttgatt aagggagaga gcgcctagga 360
gctgcctgcc ccagctgggg tgacggctgt agggctgggt ctatgttgca agccctatat 420
cctagcatgc agtggaaagt gcttagctct ctccctcctg acctctgggc agccagtcat 480

caaagcagag agacgtggcg gcatgtgggc agcatgccca ggttccttgc tgactcagca 540
cttatttctg tagttttaaa aaagaattta atgtttttgg ttgtattttt ttgggggggt 600
gagggtgggc aaaaacatgg gggtagttct gagttgttag aaatgtttct tgaatcaaag 660
tttgtttgaa gacacctgtg cctttgtacc cattataaga tggtcattaa gacccaagaa 720
actgataact ttggnttttt tt 742

<210> 2716
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2716
gnnagnnnnn nnnnngnnng ntttnnaaga ncagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga gggaaccccc accattaagc taaagtaaaa ccctttgag 120
ggaagaggga gactggggag aagggaaaag agagaaggca gggagagtag ggagagaaaa 180
ccttccagca gcccagtaaa ctgcgggcga agagatctac ccgtctccct ccctcccaca 240
gttaccattg gccttgtcat cgcaagcatt tgacaaagac ttgcttgtct tgggcctgtc 300
acctcctgaa aggctgcttt agctgtggat gcccttgatt aagggagaga gcgcctagga 360
gctgcctgcc ccagctgggg tgacggctgt agggctgggt ctatgttgca agccctatat 420
cctagcatgc agtggaaagt gcttagctct ctccctcctg acctctgggc agccagtcat 480
caaagcagag agacgtggcg gcatgtgggc agcatgccca ggttccttgc tgactcagca 540
cttatttctg tagttttaaa aaagaattta atgtttttgg ttgtattttt ttgggggggt 600
gagggtgggc aaaaacatgg gggtagttct gagttgttag aaatgtttct tgaatcaaag 660
tttgtttgaa gacacctgtg cctttgtacc cattataaga tggtcattaa gacccaagaa 720
actgataact ttggnttttt tt 742

<210> 2717
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2717
gnnngnnnnn nnnnnggnng ntttntagat anagctcttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag gccntcctgt nnacagcgng gcaagangaa tcatnntgnc 120
tgngcatttt gcnctnctta tctgggnnta tantgtacat nnaggacaga ccactcctaa 180
ttgacaacat ctannctntn tggatgtnaa agangttgcc agngtatnac aaangtngan 240
ntagnanact aatntntttt gtacattntg gnttacaagt cctaggaaan attggcttct 300
gaaaatttga tgnctnntgg gttgatggag atggnaaggg ntctangcca gaatgntcac 360
atttggaaga ctctntcnaa ttntnactgt nggtacatgt ttgcanntat attcaanact 420
gctgtntaca tagtagacaa atnaactcct tacttgaaac atctagtcta tctagatgtn 480
tagaagtgcc ccatgnatgc taaatgtata cgtagtgaaa taccactttg nnaatatctc 540
tttgctaaaa ttcatncgaa atgcttttgg aaattgantn gnnaanncac ctttgtnaac 600
agnntantgn tgnntatcct tgnncaatat nttaaaggac gtaaggangg aagaaattgc 660
aaaaagggat atcctancgt gngcatactt gggcatttca gacccttgtt ctatatgntn 720
gggcatctgg gtt 733

<210> 2718
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2718
gnnngnnnnn nnnnnggnng ntttntagat anagctcttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag gccntcctgt nnacagcgng gcaagangaa tcatnntgnc 120
tgngcatttt gcnctnctta tctgggnnta tantgtacat nnaggacaga ccactcctaa 180
ttgacaacat ctannctntn tggatgtnaa agangttgcc agngtatnac aaangtngan 240
ntagnanact aatntntttt gtacattntg gnttacaagt cctaggaaan attggcttct 300
gaaaatttga tgnctnntgg gttgatggag atggnaaggg ntctangcca gaatgntcac 360
atttggaaga ctctntcnaa ttntnactgt nggtacatgt ttgcanntat attcaanact 420
gctgtntaca tagtagacaa atnaactcct tacttgaaac atctagtcta tctagatgtn 480
tagaagtgcc ccatgnatgc taaatgtata cgtagtgaaa taccactttg nnaatatctc 540
tttgctaaaa ttcatncgaa atgcttttgg aaattgantn gnnaanncac ctttgtnaac 600
agnntantgn tgnntatcct tgnncaatat nttaaaggac gtaaggangg aagaaattgc 660
aaaaagggat atcctancgt gngcatactt gggcatttca gacccttgtt ctatatgntn 720
gggcatctgg gtt 733

<210> 2719
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2719
nnngnnnnnn nnnngnnngn nnnnnnnngn nnnnntnttt agatcagctc ttgttctttt 60
tgcaggatcc catcgattcg aattcggcac gagctcatgc ttcaagaagc agataaactg 120
ggctgcaaac agtttgttac tcctgcagat gtggtttcag gcaatcctaa acttaattta 180
gcttttgtag ctaatttgtt taacacatac ccgtgcctgc acaagccgaa taataatgac 240
atcgatatga atttactgga aggagagagc aaggaagaga gaacatttcg gaactggatg 300
aattccttgg gagtcaaccc atacattaat catttgtaca gtgaccttgc agatgcttta 360
gtgatctttc agctctatga gatgatccga gtgccagtca actggagcca tgtcaacaaa 420
cctccttatc ctgcccttgg agggaacatg aagaaggtga atgaaataat ggccatggat 480
atattgntat tgttctgata tgaaacaaag aatttagagt ttcatgaagt tatacgtgct 540
ctgtccccac aattctgatt cagaccaaaa tgtgttaagc ttaatagcct ttttacaagt 600
ttgctttaat aaatttgaag atgaaggcaa aaaaaaaaaa nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnanaaaaaa aaaacctngn ccctttaaac tttnggnngc 720
ntttncntaa nnccnnactt gaaaaancn 749

<210> 2720
<211> 768
<212> DNA
<213> Homo sapiens

<400> 2720

acatacagct acttgttctt tttgcaggat cccatcgatt cgagacagtc aagctgcatt 60
gcaacactgc atgtctgact aacagcatac attgtcctga agaagcatct gtagggaatc 120
cagaaggagc gttcatgaag atgttacaag cccggaagca gcacatgagc actcagctga 180
ctattgagtc ggaggcgccc tcagacagca gtggcatcaa cttgtcaggc tttgggggtg 240
atcagcttga aattcagcta accgagcagc tacggtccct catccccaac gaggatgtga 300
gaaagttcat gtctcatgtt atccggacct tgaaaatgga atgttcagaa acacatgtgc 360
aagggagctg tgccaagctc atgttgcgaa caggcctcct gatgaagctt ctcagcgagc 420
agcaggaagc aaaggcattg aatgtagaat gggatacgga ccaacaaaaa acaaattata 480
ttaatgagaa catggaacag aatgaacaga aagagcagaa gtcaagtgag ctcatgaaag 540
aagttccagg agatgactat aagaacaaac tcatcttcgc aatatctgtg actgtaatac 600
taataatttt gattataatt ttttgtctta tagaggtgaa ttcacataaa agggcatcag 660
aaaaatcaaa gacaacccat caatatcagg agcctgagca tgagttaaag catgtggatg 720
gcctggaact atgtttttaa aatggtatta aatattggtt ttttactt 768

<210> 2721
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 2721
gagaggnnnt tttgaagncn gctngnngnc ttttnganna gttntcgtcn gcangatgna 60
cacacggaga cagatactgt ggaccccana agcaatggac ggccccccac tgctgctgct 120
gtccccaaat ctgcgaaata catcgctcag gtgctgcagg actcagaggt ggacggggat 180
ggggatgggg ctcctgggag ctcaggggat gagcccccat catcctcatc ccaagatgag 240
gagttgctga tgccacccga cgccctcacg gacacagact tcagtcttgc gaggacagcc 300
tcatagagaa tgagattcac cagtaagggg agggaggggc cctggaggcc acatcctgcc 360
ccaccccacc cccactccca cngacactaa aacgctaata atttattana tctaaagccc 420
cttctnccca gcccctgctt tcattaaggt atttaaactt gggggtttca ctgctctccc 480
cccatgatgg aaggagggag ccccccaacc tcagtgagga nagccccgag ccggccccgg 540
ggcaaagagg ggtgcagagg gagttcccca natcaagtcc cccaaccctt cccactagta 600
catgaccagg anagggttaa tgataccaac aagagtcctg gtgcacctgg tgccggtggc 660
tggagacctg gggggcangt ggatctgggg ctgatccccc ctccgttttt tcacccacat 720
ttctctggga tttgc 735

<210> 2722
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 2722
tnnnnnttttt tnaaccagnn ttcnaatcct tggcgnnagg ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgagaag aaaggctgcc tttgagttga ccaaccatgt 120
tgaggtggta gatgggtgct aaactcactg tagtctgagt aattgacttc cacaagtcat 180
ccccactgtt gagcctttca aaatgaagtc tcagtatatt tacaaattaa tggacatcct 240
ctctggggat tagtcatatt ctaattcaac aaagacattg tttgaagttt gtttttgttt 300
gctaaatgaa ctaaaaatta tgagatttgc acctaaaggt actgaggtaa aggagagcca 360

aaagtggggt agtcaatcta cttattcaga atgagtcgat aatttaaaca tgtctaatag 420
cagagacagt atattataga aatggcatta cattctctga gatctgcttt tactgaagtg 480
gatcaatgat gaaactagcc aaatctgagc atcagaaggc tttccggtct acctgatgca 540
tgatctctac agttctgaga agcagaacta taaaacaatg taaaacaata agggcatatg 600
tctggtgtgt gtgtgggggg tgtgtgtgtg nnnnncnnnn nnnnnnnnnn nnngnnncnn 660
nnnnngnnnn nnnnnnntnn nnnnnngnnn nnnnnnnnnn nnnnnnnnnn nnnnnc 716

<210> 2723
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2723
gagaggnntt ttanagcctg ctacttgttc tttttgcnga tcatcgattc gaattcggca 60
cgagaaatac ctcaggaaaa acgaggaggt gaagtattgg attcttctca tgatgacata 120
aaacttgaaa aaagtaatat tttgctgctt ggaccaactg ggtcaggtaa aactctgctg 180
gcacaaaccc tanctaaatg ccttgatgtc ccttttgcta tctgtgactg tacaactttg 240
actcacgctg gatatgtacg cgaagatatt gaatctgtga ttgcaaaact actccaagat 300
gccaattata atgtggaaaa agcacaacaa ggaattgtct ttctggatga agtagataag 360
attggcagtg tgccaggcat tcatcaatta cgggatgtan gtggagaagg cgttcatcaa 420
ggcttattaa aactacttga aggcacaata gtcaatgttc cagaaaagaa ttcccgaaag 480
ctccgtggag aaacagttca agttgataca acanacatac tgtttgtggc atctggtgct 540
ttcaatgggt tacacagaat catcancagg aggaaaaatg aaaagtatct ttggatttgg 600
aacaccatct aatctgggga aaaggcagaa gggctgcagc ttgctgnaga ccttgnttaa 660
tcnaaagtgg ggaatccaat acttacccaa gacattgaan aaaaagatcg ggtntgcgtc 720
atgtggaaac cngagatctg attgagtttg g 751

<210> 2724
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2724
gngagnnnnn tttanaanat caggctactt gttctttttg caggatccct cgattcgtaa 60
gtgggctaag accagaagag agacttattc gcttaagtag aaacatgtgc cttttattaa 120
ctgcagtcct gcattttatc catggaatga cagaccctgt attaatgtct ctcagtgcct 180
ctcatgtgtc atcttttcgt agacattttc ctgtgctgtt tgtctctgct tgcctgttta 240
ttcttcctgt cttactcagt tatgttcttt ggcatcacta tgcactaaat acatggttgt 300
ttgcagttac agcattttgt gtggaactgt gcttaaaagt nattgtttct ctcactgntt 360
atacgttatt catgattgat ggctactata atgtcctctg ggaaaagctt gacgattatg 420
tctactacgt tcgttcaaca ggcagtatta ttgaatttat atttggagtt gtaatggttg 480
gaaatggggc ttacactatg atgtttgagt cgggaagtaa aattcgggct tttatgatgt 540
gcctacatgc atattttaac atctacttac aagccaaaaa tggctggaag acatttatga 600
atcgtaggac tgctgtgaag aaaattaatt cacttcctgn aataaaaggg agcccgctta 660
caagaaataa atgaaggtat gtgcaatctg ctatcatgag tttacaacat ctgctcgtat 720
tacaccgtgt aatcattatt tccatgccc 749

<210> 2725
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2725
gagnnnnttt taataacagc tacttgttct ttttgcggat ccctcgattc gaattcggca 60
cgagcgtgga gagaatactc agaaatgaac ctctttaaag ccttgcagga atgagtcact 120
cttacttaat gaaatgttaa agccaattaa aaagcatgct gtgatgccca gcttcccttt 180
ccacagggtg catgcgtctc ctgctggtga atcacatgcg gcaagaggca actggctcca 240
cagcctggga tgctgccgta ccaagaggaa agaagcagca aaatgccttt acgttgttct 300
aaaccccccga cgcataaagt gtagaggagg gatggccaag ggtgggtggg tagaaagtgt 360
gttcaggctg acactggcaa tgagtacaga taatttcact ttcctcttca ggggcaaagg 420
ctgatggcct ctacctttgt atccaggaga aactgcagag cagccctgtg actttacaaa 480
atatgctacc tcaaagtgct acccgataaa cctttctaat tgtaagtgcc cttactaagg 540
gcacatgtct taatcaaagt tagtttttg ttttctggtt tgnttttttt ttttgnatat 600
tgatgaatga gatcttacct attaaatata ttattggatt atgggtcctg aaggtcatta 660
aaagtttgag tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtttatgac ttaaatatct 720
ttacgtgngg tttttaaaac ttgggt 746

<210> 2726
<211> 967
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(967)
<223> n = A,T,C or G

<400> 2726
agtanggcgn ttcctaatnn annnggctaa gcgactttna aagangaggc tngcgtgntg 60
aataccgnnc gaggggggat nacaatagta nacnnggtnc caatncatgc ttaacaccgc 120
atntctttac cccccnannn ncacanatgc agacncacac atngcanncg nacacncaga 180
cacacacang caagcactnn catgcatggc ccatgctcac acacntgnan nnaacatgcn 240
gtagacatnt nagacacgtc atgtnacaca tgnnacacan gnnnaanaca ctgctttnca 300
ngcanacnca gacggcacnn ngagacanac atgcnnaaac aacatgctcn ctcacntnna 360
nncgntgggc cngtagtagt gtactgtggg tgnnactggg tgccatcnac nnngtatttt 420
acgnnctttn aactaaaaan cttggagcct tnanttnntn tggtgantnc aatncctana 480
antnncttga gngggatgaa ccctaananc ctggccctnn tnccnctttc aaggccnagn 540
aattganatt attncntant ngnncacgaa gcttntggta ncangngncc cgagnnctnt 600
tnaaanttnn ctnttttnan aatnaaacat tttancggtt ctnaggancc gngcctncng 660
ggtanggann naattgtncc tgggnatagt tctcacaant natnttnaag gggnnaagng 720
atnngngngg nccntntatg nggcnngcca annaangggg tcgnngttaa natattccaa 780
gntaacanan gnacnatggn accnatccct ntnngaagna aggaactncc tgnncgacta 840
nnnactatgn naaatattct cacatntaca naaaaagnag gnnccnnggt ncttnaagnt 900
tntgcatagn nactatncnt gggacgngtt aacnnanatt ntatgcttta nnngatnggg 960
gcttnnn 967

<210> 2727
<211> 967

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(967)
<223> n = A,T,C or G

<400> 2727
agtanggcgn ttcctaatnn annnggctaa gcgactttna aagangaggc tngcgtgntg 60
aataccgnnc gaggggggat nacaatagta nacnnggtnc caatncatgc ttaacaccgc 120
atntctttac cccccnannn ncacanatgc agacncacac atngcanncg nacacncaga 180
cacacacang caagcactnn catgcatggc ccatgctcac acacntgnan nnaacatgcn 240
gtagacatnt nagacacgtc atgtnacaca tgnnacacan gnnnaanaca ctgctttnca 300
ngcanacnca gacggcacnn ngagacanac atgcnnaaac aacatgctcn ctcacntnna 360
nncgntgggc cngtagtagt gtactgtggg tgnnactggg tgccatcnac nnngtatttt 420
acgnnctttn aactaaaaan cttggagcct tnanttnntn tggtgantnc aatncctana 480
antnncttga gngggatgaa ccctaananc ctggccctnn tnccnctttc aaggccnagn 540
aattganatt attncntant ngnncacgaa gcttntggta ncangngncc cgagnnctnt 600
tnaaanttnn ctnttttnan aatnaaacat tttancggtt ctnaggancc gngcctncng 660
ggtanggann naattgtncc tgggnatagt tctcacaant natnttnaag gggnnaagng 720
atnngngngg nccntntatg nggcnngcca annaangggg tcgnngttaa natattccaa 780
gntaacanan gnacnatggn accnatccct ntnngaagna aggaactncc tgnncgacta 840
nnnactatgn naaatattct cacatntaca naaaaagnag gnnccnnggt ncttnaagnt 900
tntgcatagn nactatncnt gggacgngtt aacnnanatt ntatgcttta nnngatnggg 960
gcttnnn 967

<210> 2728
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 2728
gagagnnntt tntaatnnca gctcttgttc tttttgcggt ccctcgttcg agaaaatgaa 60
gatgaacaga atagtccgcc aaaaaagggt aaaagaggcc gaccaccaaa acctcttggt 120
ggaggtacac caaaagaaga gccaacaatg aaaacttcta aaaaaggaag caaaaaaaaa 180
tctggacctc cagcaccaga ggaggaggaa gaagaagaaa gacaaagtgg aaatacggaa 240
cagaagtcca aaagcaaaca gcaccgagtg tcaaggagag cacagcagag agcagaatct 300
cctgaatcta gtgcaattga atccacacag tccacaccac agaaaggacg aggaagacca 360
tcaaaaacgc catcaccatc acaaccaaaa aaaaatgtcc cgtgtaggac gctccaaaca 420
agcagctact aaggaaaatg attcaagtga agaagtagat gtgtttcaag ggtagctctc 480
ctgtcgatga tattccacag gaagaaacag aggaggagga agtttctaca gtaaatgtac 540
ggcggcgaag tgctaaaagg gaacggcgat gaacaaatgt aattaataac tttctctgtg 600
aaagctttgg aaaaatcttt ttttttttt ggtcaagctt gagcttgata aagcctttga 660
tgcacaaaat gggctgctga aaatggacag ttggncttac tttggtgccc ctactttgtg 720
gcacatcttt accatcac 738

<210> 2729
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2729
gnngnngnnn nnnnnnnngn nnnnnnnnnn nngnnngnnt ttatgnatca gctacttgtt 60
ctttttgcag gatcccatcg attcgctcca ttgtgaagat ccaggcattt ttccgagcca 120
ggaaagccca agatgactac aggatattag tgcatgcacc ccacccctcct ctcagtgtgg 180
tacgcagatt tgcccatctc ttgaatcaaa gccagcaaga cttctctgct gctgtgatct 240
gcacaccctc caacctgggc agggactggg gggatgcagt gtgtgttagt gcccatgtgg 300
cattgtggca ctgttgcccc ccatggcggc atgggcaaga tgaccttcca ttagcttcaa 360
gtcttgttct cttgtctgtg gtctgtttaa tatgtgggtc actagggtat ttattctttc 420
tcccatcctt acactctgga tcattgtgca gacttaatca gggttttaac gctttcattn 480
tnnnttttnt ttttttgact caaagagagt tctcattttc cctattcaaa ctaataccca 540
tgccgggttt tttaccttgg atttaaagtc accttangtt ggggcaacag attctcactc 600
atgtttaana nctggtattt cagcttcata agatcaaaga ggagtctttc cctttctctt 660
ttaccctcag gatctcatcc cttacagctg actcttncag gcaatttcca tagaactgna 720
gtcctgcttt ggcacaagct ntntgtg 747

<210> 2730
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 2730
ttnattaatg cttggctact cgttctttnt gcaggatccc tcgattcgaa ttcggcacga 60
ggtcctaaag ccgctgaagc aaaaaccatg ataaaacatt ctgctttctt ttcttttaca 120
accccacgaa cgcaaaaaaa aaaaaaaaca aaaacaaaac aaaaaaaaga aacaacaaca 180
aaacccaaac tatttgtagg aaaaaatggt tttgtacatg ggatgaaaca atataaattc 240
aaaacttaca gataagggtt agctctatca ctcaactctt taaaaagttt atatgaatat 300
ccagtcaaaa ccaacacggt attgcccttg aaatgttaac tagacggatt tccaaggaga 360
ccacaggact gtatactgtc ttggaatgtc ctcagaaggc tctgtcattg atcaggtaac 420
agtaaaaacc ccagtttcct ttcttagctg atgtctttgg ccagaacacc gtgggctgtt 480
acttgctttg agttggaagc ggtttgcatt tacgcctgta aatgtattca ttcttaattt 540
atgtaaggtt ttttttgtac gcaattctcg attctttgaa gagatgacaa caaattttgg 600
ttttctactg ttatgtgaga acattangcc ccagcaacac gtcattgtgt aaggaaaaat 660
aaaagtgctg ccgtaccaaa aaaaaaatnn nngnccnnan nncnaannct tngnnt 716

<210> 2731
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2731
tgnnnttttn nagtcaancc ttggaaatcc ttggctctng ccgctntctg caggatccca 60

tcgattngct nngcagctcc ccttccantg agagccctnc acacnatttn anaaaaccnt 120
ncgnatgcat naactttcaa nccatancat gcatncnggn tattgntnca tgctgatcat 180
nnaacctnnn gtccaacagg gcggnncngt aatggntgnt tnnttnactt tttantntgt 240
ggngtatnnn ntagnncncg cggngcnggc tcannttact ggaccttgca natcctnnga 300
ttnngcnntg ngngnntcng gctcnnacnn acatgngntt acagacatnc tggcatgttc 360
atntcnncgt gntntcnctn ngtnaanang gngnctnanc ntgntngcca agctgntnnn 420
annctcctgg gntacnttna nntnnnatnt tgactcatac cgttgctgat tncaaggcnt 480
gagccaccac tcctggccaa ngnngcgttg cttgacattn cnactaagac tatgactatn 540
atgntnccgt gacgacacta tagtcctccn nacttntcng tcaagtggca tctgggattg 600
tntcaacatg gataaanggg cctctctanat atcnnggcgt tgancntcat ttncctgcnt 660
tcctganaat ttngngcact gaancttana gggccttatt cncncnngan cancacncgn 720
ngatactanc c 731

<210> 2732
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 2732
tgnnnttttn nagtcaancc ttggaaatcc ttggctctng ccgctntctg caggatccca 60
tcgattngct nngcagctcc ccttccantg agagccctnc acacnatttn anaaaaccnt 120
ncgnatgcat naactttcaa nccatancat gcatncnggn tattgntnca tgctgatcat 180
nnaacctnnn gtccaacagg gcggnncngt aatggntgnt tnnttnactt tttantntgt 240
ggngtatnnn ntagnncncg cggngcnggc tcannttact ggaccttgca natcctnnga 300
ttnngcnntg ngngnntcng gctcnnacnn acatgngntt acagacatnc tggcatgttc 360
atntcnncgt gntntcnctn ngtnaanang gngnctnanc ntgntngcca agctgntnnn 420
annctcctgg gntacnttna nntnnnatnt tgactcatac cgttgctgat tncaaggcnt 480
gagccaccac tcctggccaa ngnngcgttg cttgacattn cnactaagac tatgactatn 540
atgntnccgt gacgacacta tagtcctccn nacttntcng tcaagtggca tctgggattg 600
tntcaacatg gataaanggg ccttctanat atcnnggcgt tgancntcat ttncctgcnt 660
tcctganaat ttngngcact gaancttana gggccttatt cncncnngan cancacncgn 720
ngatactanc c 731

<210> 2733
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2733
ccttncctg aaagccncaa gctacttgnt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagat tcccatctgc ttttacttcg ggtgagcaga gggggatgtg tgtgtgcgtg 120
tgtgtcagtc tgtttgtgag tgtgttaaag gctacagacc acagttggtt taaaatgctt 180
ggaacttccc aaactggctt tactttatgt ttatacagtg ctcagggtta acgcagtaca 240
tccatgccat tgctgtggga ggtatccccg gatgcatgtg ttttgagtct ataaatatag 300
aaaatatata ttggtttctt tttccaactt aataggtcta ttaaagcatg aaatgaaagg 360
ttgcatatca tgcattcagg ntattaccta atttttgnnc tgacagtgca tgnctntgga 420

agcatgctga aacaccgatt aacacaggag tcgngtaaca cngagaaaca tttgatanat 480
gtacagcatt ggctattgca ttcctatagt gtatataccn gggtattgct tcaaaccctg 540
cngaccncta ttttcccntc tncnnccccc gtgttctttg gtcaaacnta atnnannaca 600
tncatttgcn nttgngttnn naaactttan annтcntnga tngtgnannt anacnangta 660
acttttacc taaanggtgt ngcctgnccc caaaattgcc attatngggn ccncntattt 720
ccncnantnt ananttgttc ncacattncg 750

<210> 2734
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 2734
anttgaanct ttctaatgct tggcnntgca ggatcccatc gattcgaatt cggcacgagg 60
gcacaaggac cctcctgcca acctgtttga agacatggac ctcaacaagg atggcgaggt 120
ccctccggag gagttctcca ccttcatcaa ggctcaagtg agtgagggca aaggacgcct 180
catgcctggg caggaccctg agaaaaccat aggagacatg ttccagaacc aggaccgcaa 240
ccaggacggc aagatcacag tcgacgagct caagctgaag tcagatgagg acgaggagcg 300
ggtccacgag gagctctgag gggcagggag cctggccagg cctgagacac agaggcccac 360
tgcgaggggg acagtggcgg tgggactgac ctgctgacag tcaccctccc tctgctggga 420
tgaggtccag gagccaacta aaacaatggc agaggagaca tctctggtgt tcccaccacc 480
ctagatgaaa atccacagca cagacctcta ccgtgtttct cttccatccc taaaccactt 540
ccttaaaatg tttggatttg caaagccaat ttggggcctg tggagcctgg ggttggatag 600
ggccatggct ggtcccccac catacctccc ttcacatcac ttgacacagc tgagctttgt 660
tatccatctt cccaaacttt ctctttcttt gtacttcttg tcatccccac tc 712

<210> 2735
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2735
nttaancntt nanannngtt ntttttgcag gatcccatcg attcgaattc ggcacgaggg 60
cangggactt nctgtaacaa tgcatctcat atttggaatg acccagtcct ctcccaagtc 120
cacacagggg aggtgatagc attgctttcg tgtaaattat gtaatgcaaa atttttttaa 180
tcttcgcctt aatactttat tattnngtnn tattttgaat gatgagcctt cgtgcccccc 240
cttnccccct ttttgtcccc caacttgaga tgtatgaagg cttttggtct ccctgggagt 300
gggtggaggc agccagggct tacctgtaca ctgacttgag accagttgaa taaaagtgca 360
caccttaaaa aanaatgcat anaaaaaact cgagcctcta gaactatagt gagtcgtatt 420
acgtagatcc agacatgata agatncatng atgagtttgg acaaaccaca actagaatgc 480
agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta 540
taagctgcaa taaacaagtt aacaacanca attgcattca ttttatgttt caggttcagg 600
gggaggtgtg ggaggttttt taattcgngg ccgnggcgcc aatgcatngn gcccggtacc 660
cagcttttgg tccctttant gagggttaat ngcgcgcttg gcgtaatcat 710

<210> 2736

<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 2736
tctaatccng nntttnantt ncnaatcgcn aggctacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag aaagaactgt ctcacgcaac cattgattct aaaactggcg 120
atttagggga catcaatgct gagcagcttc ctgggaggga acatcttaat gaacctggta 180
ctagagaagg acagactcgt ctaatcagag atggggagaa agtcgaagcc tatcagtgga 240
gtgttagtga agggaggtgg ataaaaattg gtgatgttgt tggctcatct ggtgctaatc 300
agcaaacatc tggaaaagtt ttatatgaag ggaaagaatt tgattatgtt ttctcaattg 360
atgtcaatga aggtggacca tcatataaat tgccatataa taccagtgat gacccttggt 420
taactgcata caacttctta cagaagaatg atttgaatcc tatgtttctg gatcaagtag 480
ctaaatttat tattgataac acaaaaggtc aaatgttggg acttgggaat cccacttttc 540
agatccattt acaggtggtg gtcggtatgt tccgggctct tcgggatctt ctaacacact 600
acccacagca gatcctttta caggtgctgg tcgttatgta ccaggttctg caagtatggg 660
aactccatgg ccggagttga tccattacag ggaatagtgc ctaccgatca ctgn 714

<210> 2737
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 2737
aatntttgct ctcgttcttt ttgcaggatc cctcgattcg aattcggcac gaggctatct 60
gaacacagtg gaaagatggg accctcaggc tcgccagtgg aattttgttg ccactatgtc 120
taccctagg agtacagtan gtgtggcagt actaagtgga aaactttatg canttggtgg 180
tcgtgatgga agttcttgtc tcaaatcagt anaatgtttt gatcctcata ctaataagtg 240
gacactgtgt gcacagatgt caaaaaggan aggtggcgta ggagtgacga cctgnaatgg 300
actgctgtat gctatagggg ggcacgatgc tcccgcatcc aacttgactt ccagactctc 360
agactgtgtg gaaagatatg atcccaaaac agacatgtgg actgcagtag catccatgag 420
catcagcaga natgcagtgg gggtctgttt acttggtgat aagttatatg ctgntggggg 480
gtatgatgga caggcatacc ttaatactgt ggaggcttat gatccccaga caaatgagtg 540
gacccaggta ttttcacata cttttgagga cagcaaagat cacctggtgg ccatcaagca 600
naccatctgg aggcaaaact ccttatctga ggaattcaga agtcattaga ctgccctatt 660
atctaaagcc cggcatcttg tactaggctt ctttaccaaa aatgtat 707

<210> 2738
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 2738
ctttaaatct caagctcttg ttctttttgc aggatcccat cgattcggga gagaaacctt 60
atggatgcat tgactgtggc aaggccttca gccagaagtc ttgccttgta gcacatcaga 120
gatatcatac aggaaagact ccctttgtat gtcctgaatg tgggcaaccc tgttcacaga 180
agtcaggact cattagacat cagaaaattc actcaggaga gaaaccctat aaatgcagtg 240
actgtgggaa agccttcctt acaaagacaa tgctcattgt acatcacaga actcacacgg 300
gagagagacc ctatggctgt gatgagtgtg agaaagctta cttctatatg tcttgccttg 360
ttaaacataa gagaatacac tcaagggaga aacgggggga ttcagtgaag gtggaaaatc 420
cttccacagc aagtcacagc ttaagtccta gtgaacatgt gcaggggaaa agccctgtta 480
atatggtaac tgtggcaatg gtggcagggc agtgtgagtt tgcccacatc ctgcattcat 540
gataaacagt ttgctgtttg atcatatagc ctncagcgga atgctgagtt tgtcatgtcc 600
catgggcctt tggctccctg cactaatatg tatagtaggg tttacaagat atgaaatata 660
ttttactttt ttatatctta taaacctcac tacccccttcc acaata 706

<210> 2739
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2739
tnaatnnttg ctctngttct ttttgcagga tccctcgatt cggtggtggc acatacctgt 60
aatcccagct actcgggagg ctgaaacagg agaattgctt gaacctggga ggtagctgtt 120
gcagtgagaa agattggtac cattgcactg cggtctgggc cacagagcga gacttccatc 180
tcaaaaaata aataaaatag ggatggggtc tcactgtgtt gaccaggctg gtcttgaact 240
aatgtccnca nntaggcctn ccatatcanc ttnnannggc tatncattac aggntcntgt 300
ccacatgcna ngncnctatt acnaactgca tcatnntttg caccccatat ntatganccg 360
nattttaatt ttncancaat ntctnataac attgnngatc tgnatanann ctatnttgct 420
gctnacaaat ctgaatcatc ntttccanan catnttggac acacatcact taattnaaca 480
atttaatgca nctatttngc tatnctcctn atttgttnct tcntnccaca ntatgttctt 540
atgaanncat ctatttttnca attnngaana aaancacnta ttgnntgnnt atgtannngt 600
atatacntnn tcaataccgn ctacttttna nctaaacctt tccnttgnat anttantntn 660
atgttnncac acttacgggt cnntccatta attntcctac atgnnaantt ttacntatnt 720
cattagtana ctttatnnta attaattntt cc 752

<210> 2740
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 2740
tcaatncngg ctctngttct ntttgcagga tccctcgatt cgaattcggc acgaggctgg 60
acttggcaat ggtggtcttg ggagacttgc tgcctgcttc ttggattcca tggcaaccct 120
gggacttgca gcctatggat acggcattcg gtatgaatat gggattttca atcagaagat 180
ccgagatgga tggcaggtag aagaagcaga tgattggctc agatatggaa acccttggga 240
gaagtcccgc ccagaattca tgctgcctgt gcacttctat ggaaaagtag aacacaccaa 300
caccgggacc aagtggattg acactcaagt attcagagtg ctcgtatagc cagcgttttg 360

tatagtattt agtacagtag ataatacatt gactatgtag catatagtgg tgatattgag 420
tatagggcat gtcgtgtttt gaataataga atatattttt gtaaataaat ctgttacttc 480
tcttagcgca gcccagtcat tttggagaca aaggagctga ggccaagaga ggagtgactt 540
ttataagggt cattttgcaa ccagctttgt cagaaaattg tcagttcttt ttttttttt 600
tttttgccag aaaattgtca gttctatagt aaccagcatg cttacctctt tggttttata 660
ttaaggtgtt gatagcaaaa ttgaatattt gaaaatgtca tttc 704

<210> 2741
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2741
tncnaanggn tngnantcnc ctctnngnag gancccntcg attcgaattc ggcacgaggt 60
caagcctgta atcccaacac tttgggtnna ccgaggtggg ggtatctgat tgagcctngg 120
aggtcgagat cagcctggga aacacaggga ggcccccatc gctacaaaat attttaaaaa 180
ttagccaggt gtggtggctt gtgcttgttg ncccggctac ttgggaggct gaagtgggag 240
ggtggcttga gtncaggagt tcactgcact gagctgtgat cacaccactg cactccagcc 300
tggacgacag agtgagacgt ccatctcaaa aaaaaaaata aaaaactcga gcctttanaa 360
ctatagtgag tcgtattacg tagatccaga cntgataang atacattgat gagtttggac 420
aaaccacaac tagaatgcag tngaaaaaaa tgctttattt gtgaaatttg tgatgctntt 480
gctttatttg tanccattat nagctgcnat aancaagttt aacaacnaac aattgcatnc 540
attttatgtt tcangttcaa gnggggaggtt ctggnnaagn ttttttnatt tnncggccng 600
ctggcgccat tggcattggn ccccggtncc ccaaactttt ngtccccctt ttatctggan 660
ggggtttaat ttgnctccct ttnggccgat tatcatgggn caatagcatg ntcttncctg 720
ngggnngaaa attngtttat tccnttncaa cnn 753

<210> 2742
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 2742
tcaatacnag ctntngntct ntttgcagga tcccatcgat tcgaattcgg cacgagcaag 60
aagagttttc tgttcagttt ggaacaagat tttgagaaga catttaggat gtactagttt 120
gagtttttaa atgtatattt gagatatttt ctcaactttc tctttgggtc tgtagctaaa 180
atatgcagta taatgtttta tttatttatt ttttaagaga tggggtctag ctattttgcc 240
caggcagact caaattcctg ggctcaagtg atcctctgcc ttggcctcct gagtagctgg 300
gacttacaga catgtgccac caaacctagt ggctatataa tttttaaaaa tattcttagg 360
atatctttac atacttttct taaaaaaaaa aagttaacct ttgtagttct gtacctttca 420
gtagtctgca aattttctac caaaaaaaat cccaagaatt tatttgggaa ttattaaaaa 480
ggcaaacaat gaatgttatt aggacaagaa tatagcagtc aggaggccat gactacatca 540
cagccaggcg gcattccctg ccacagtggc ggcttgaatc atcaagaaat ggataaatgg 600
ggctttagta aatcaggctt gcaggctcaa agctgcaatc tgcccactct caggtctgag 660
actttgtggg cctcagacac caggaagaaa gttgggatac an 702

<210> 2743
<211> 709
<212> DNA
<213> Homo sapiens

<400> 2743
cagctcttgt tctttttgca ggatcccatc gattcgttga gacggagttt caccatgttg 60
gccaggatgg tcttcaactt ctaacttcgt gatccacgct gctgggatta caggtgtgag 120
ccaccgcgtg tggcctctgg gcacctttg aagctgaagc agagagagaa ggcggcaggc 180
atcagcgttt tcttctatga acttataaga tcaaagactt taagactttc actatttctt 240
ctaccgctat ctactacgaa cttcaaagag gaaccaggag tacggaagga gcatgaaagt 300
ggacaaggaa cgtgaccatt gaagcaccac agggaggggt tcaggcctcc ggatgactgc 360
aggcaggcct gggtaacatc cagcctccca caagaagctg gtggagcaga gcgttccctg 420
actcctccaa ggaaaggaga ctccctttcc cggtctgctc agtaacgggt gccttcccag 480
acactggcgt taccgcttga ccaaggggcc ctcaagcggc ccttatgcgg gcatgacaga 540
aggctcccct cttgccttct attcacttct cacaatgtcc cttcagcacc tgaccctata 600
cctgccggtt attcctaggt tatattatta atgcaacaga gtaatattaa aagctaatga 660
ttaataatgt ttataataat gatggataat tggtcatgat catcgctgg 709

<210> 2744
<211> 709
<212> DNA
<213> Homo sapiens

<400> 2744
cagctcttgt tctttttgca ggatcccatc gattcgttga gacggagttt caccatgttg 60
gccaggatgg tcttcaactt ctaacttcgt gatccacgct gctgggatta caggtgtgag 120
ccaccgcgtg tggcctctgg gcacctttg aagctgaagc agagagagaa ggcggcaggc 180
atcagcgttt tcttctatga acttataaga tcaaagactt taagactttc actatttctt 240
ctaccgctat ctactacgaa cttcaaagag gaaccaggag tacggaagga gcatgaaagt 300
ggacaaggaa cgtgaccatt gaagcaccac agggaggggt tcaggcctcc ggatgactgc 360
aggcaggcct gggtaacatc cagcctccca caagaagctg gtggagcaga gcgttccctg 420
actcctccaa ggaaaggaga ctccctttcc cggtctgctc agtaacgggt gccttcccag 480
acactggcgt taccgcttga ccaaggggcc ctcaagcggc ccttatgcgg gcatgacaga 540
aggctcccct cttgccttct attcacttct cacaatgtcc cttcagcacc tgaccctata 600
cctgccggtt attcctaggt tatattatta atgcaacaga gtaatattaa aagctaatga 660
ttaataatgt ttataataat gatggataat tggtcatgat catcgctgg 709

<210> 2745
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2745
tnnnnnnttt tgnanttgaa tncttggctc tcgttctttc tgcaggatcc catcgattcg 60
cagagatgat agcacttcat tgactgccaa agaggatgtc agcataccca gatccacatt 120
aggagacttg gacacagttg cagggctgga aaaagaactg agtaatgcca aagaggaact 180
tgaactcatg gctaaaaaag aaagagaaag tcagatggaa ctttctgctc tacagtccat 240
gatagctgtg caggaagaag agctgcaggt gcaggctgct gatatggagt ctctgaccag 300
gaacatacag attaaagaag atctcataaa ggacctgcaa atgcaactgg ttgatcctga 360
agacatacca gctatggaac gcctgaccca ggaagtctta cttcttcggg aaaaagttgc 420

ttcagtagaa tcccagggtc aagaaatttc aggaaaccga agacaacagt tgctgctgat 480
gctagaagga ctagtagatg aacggagtcg gctcaatgag gccttacaag cagagagaca 540
gctctatagc agtctggtga agttccatgc ccatccagag agctctgaga gagaccgaac 600
tctgcaggtg gaactggaag gggctcaagt gttacgcagt cggctagaag aagttcttgg 660
aagaacttgg agcgcttaaa caggctggag accctggccg ccattggang tnggggaact 720
ggaaagt 727

<210> 2746
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 2746
tnnnncttca aatcgcnagg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggtt gctgtcactt ggatttctag ctttgggagc ctgttccacc tactcagctc 120
tgcattgagc agtatgggca catgccctgt ggacagttac tggacgttaa tgaactcaga 180
ggagaaaagc agtgagccac ttgttctgtg tgatttatgg tacttcattg ctcttccttc 240
acctctagtc actttctatt gctacctgcc ctacattggc tcctgccaag gtccctctct 300
ctccctgttt tccttttttt ttttttttga gacggaggac ggagtcttgc tctgtcgccc 360
aggttggagt gcagtggcgc gatctcggct cactgcaacc tccacctccc gggttcaagc 420
gattctcctg cctcagcctc ccgagtagct gggactacag gcgcgcgccg ccacgcccgg 480
ctaattttta tattttagt agagacgggg tttcaccatg ctggccaggc tggtctcgaa 540
ccccgacctc gtgatccgcc tccttagcct cccaatcctc tcttaaaaaa gtgatagctc 600
agaaatattt gtaaaagcaa ggtttttatt tcattttggc tctgcatttt cagaggcaaa 660
gaagtttggc ctgtaaaata gagtgctaga gctcttaccc cctccc 706

<210> 2747
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 2747
ggnnnnnggg gantttagat cagctcttgt tctttttgca ggatcccatc gattggaatt 60
cggcacgagg tgtgtgtgtg tgtgtgtgta gaggagagaa agagaccatt atcatatgag 120
tgtgttgggg ctgctgagag ggtttcgttt acaagtgacc ttgagtgtat ttcatctctg 180
gaatgcatgg tccctgcgct caagctacac aatctgatta gtgaagtatt actaatacac 240
tagaaaaata tacatagtaa ttaccaaatg actgacacaa ttttataggg ggttcanaga 300
aacatctgtg aatgggtaat aatgaaaaaa gaaaagnttt tctctttgtt ntagtctgac 360
ccttttaaca gtctctattc ataatgtgag gaaatcgcta caaaaactga aatattgtan 420
atactgttca ttngcatatg gaaatacttg tatgctgtgt gttgttcttt catgggacaa 480
actctacccc tnctctntnc acacacatat anccaagcta taagttagcc tanctttcgc 540
cataggaagt tgctggcttt tttantgaga agtcaaagaa cctggcttgn taaaagtctt 600
tataagaaan naananttnc tttnnnnntta nnntnnncnn atgntnnntn annnnnnntt 660
nnnnntnacn nnnanannnn annanttnnc naancatatt antgtnanan annnnaatat 720
nnnanantnn tttnnanccn ngnntnntnn nnnaannnnn annnntnann nnanttntan 780
nnaattnncn nnntnntnnn gnnncng 807

<210> 2748
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 2748
tnnnnntttt tnaaccagnn ttcnaatcct tggcgnnagg ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgagaag aaaggctgcc tttgagttga ccaaccatgt 120
tgaggtggta gatgggtgct aaactcactg tagtctgagt aattgacttc cacaagtcat 180
ccccactgtt gagcctttca aaatgaagtc tcagtatatt tacaaattaa tggacatcct 240
ctctggggat tagtcatatt ctaattcaac aaagacattg tttgaagttt gtttttgttt 300
gctaaatgaa ctaaaaatta tgagatttgc acctaaaggt actgaggtaa aggagagcca 360
aaagtggggt agtcaatcta cttattcaga atgagtcgat aatttaaaca tgtctaatag 420
cagagacagt atattataga aatggcatta cattctctga gatctgcttt tactgaagtg 480
gatcaatgat gaaactagcc aaatctgagc atcagaaggc tttccggtct acctgatgca 540
tgatctctac agttctgaga agcagaacta taaaacaatg taaaacaata agggcatatg 600
tctggtgtgt gtgtgggggg tgtgtgtgtg nnnnncnnnn nnnnnnnnnn nnngnnncnn 660
nnnnngnnnn nnnnnnntnn nnnnnngnnn nnnnnnnnnn nnnnnnnnnn nnnnnc 716

<210> 2749
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 2749
tnnnctttttt aaacctgcnt tcnaattncn agacnctngg ctctngntct ntntgcagga 60
tcccatcgat tcgaattcgg cacgagnaag aaaggctgcc tttgagttga ccaaccatgt 120
tgaggtggta gatgggtgct aaactcactg tagtctgagt aattgacttc cacaagtcat 180
ccccactgtt gagcctttca aaatgaagtc tcagtatatt tacaaattaa tggacatcct 240
ctctggggat tagtcatatt ctaattcaac aaagacattg tttgaagttt gtttttgttt 300
gctaaatgaa ctaaaaatta tgagatttgc acctaaaggt actgaggtaa aggagagcca 360
aaagtggggt agtcaatcta cttattcaga atgagtcgat aatttaaaca tgtctaatag 420
cagagacagt atattataga aatggcatta cattctctga gatctgcttt tactgaagtg 480
gatcaatgat gaaactagcc aaatctgagc atcanaaggc tttccggtct acctgatgca 540
tgatctctac agttctgaga agcagaacta taaaacaatg taaaacaata agggcatatg 600
tctggtgtgt gtgtgggggg tgtgtgtgtg tntnntnann cncgtnnntn nnancnnann 660
nttncnannt ntgattncnn ttnntctnan nnnnttnnnn tnnttcttna atnnncac 718

<210> 2750
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)

<223> n = A,T,C or G

<400> 2750
tnnnctttttt aaacctgcnt tcnaattncn agacnctngg ctctngntct ntntgcagga 60
tcccatcgat tcgaattcgg cacgagnaag aaaggctgcc tttgagttga ccaaccatgt 120
tgaggtggta gatgggtgct aaactcactg tagtctgagt aattgacttc cacaagtcat 180
ccccactgtt gagcctttca aaatgaagtc tcagtatatt tacaaattaa tggacatcct 240
ctctggggat tagtcatatt ctaattcaac aaagacattg tttgaagttt gtttttgttt 300
gctaaatgaa ctaaaaatta tgagatttgc acctaaaggt actgaggtaa aggagagcca 360
aaagtggggt agtcaatcta cttattcaga atgagtcgat aatttaaaca tgtctaatag 420
cagagacagt atattataga aatggcatta cattctctga gatctgcttt tactgaagtg 480
gatcaatgat gaaactagcc aaatctgagc atcanaaggc tttccggtct acctgatgca 540
tgatctctac agttctgaga agcagaacta taaaacaatg taaaacaata agggcatatg 600
tctggtgtgt gtgtgggggg tgtgtgtgtg tntnntnann cncgtnnntn nnancnnann 660
nttncnannt ntgattncnn ttnntctnan nnnnttnnnn tnnttcttna atnnncac 718

<210> 2751
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 2751
tgnnnntttt ntaanccggn nntttcaaat cgcttggccc taggctactt gttcttttg 60
caggatccca tcgattcgaa ttcggcacga gagnaataac taccagacaa catttgttaa 120
aactcaggac agtatgtatt ttaaaggagc aagtgcatgt gtgaaaatgg ctcattcagt 180
ttataaaata ttacattaaa tttgaggttt ctgtttttt tcttttgtga cagtcttgct 240
ctgttcccca tgctgtagtg cagtggcacc agttcacctc actgtaactt ccacatcctg 300
gtttcaagca atttgtgcct cagcctccca agtagctggg attacagtca tgccaccatg 360
tccagataat ttttatattt ttttgtagag atggtgtttt accatgtttg ccaggctgat 420
ctcaagctcc tggcctcaag tgatttgcca ccttggcctc acacgttgct gagattacag 480
gcatgagcca ccacacctgg ccaatggggc gtttcttaaa atagctacta gactatgacg 540
tttatcctaa ggtttgaagt ctatcatctt ccttacatat ccttcattgt ggtatctggg 600
aatgaatcaa caagatgaga gagccttctt cattcagtgt ggctccttca tttccatgct 660
tcctgaagat taaggncact gaatttaaaa ttcaatattc tgtgagttac acaccatgga 720
gtaacn 726

<210> 2752
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2752
cntnnctttg aanttgnaaa tngctnggct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggtcac tctgtcaccc aggctggagt gcagtggtgt gatcatagct 120
cactgcagcc tctacctcct gacacaagct gtcatcccgc tttggcttct caaagtgcta 180
ggattatagg cgtgagccac catgcccgac cagtttctgc ttttattaaa attgttcaca 240

gttttataca ttcatgttca ttaaaaatgc tatttagaaa agagtttgat aaaataaata 300
ttatacaaaa ttcgaagaaa aaagaaaaga gtttctgttt cagtcacaaa ttagggttat 360
tgtgatgtgt atttatgatg accattgaac aaatgtgaag aatactgtga attctatgac 420
tttatcaaaa tcagccacat ccaggagctt gcagttgttg accaaatgaa tgatgacata 480
gagtagttca gatctatcat gtgctcttct atctaatcag tcaatatttc cttggccctc 540
aagccaacat tcatttttta tgtataacct tcttcatgat tttgaaattt tgatagggta 600
actgctaatg agttcacaaa tgtagcactt taaaaggaaa ataaatggag agtgaaaaca 660
acttggctac gtataattgt ggggttttaa ttttctggtt ttaaaanaaa 710

<210> 2753
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2753
tnnncttcaa atcgntngct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagagatta tgagcatgta gaagatgaaa cttttcctcc tttcccacct ccagcctctc 120
cagagagaca agatggtgaa ggaactgagc ctgatgaaga gtcaggaaat ggagcacctg 180
ttcctgtacc tccaaagaga acagttaaaa gaaatatacc caagctggat gctcagagat 240
taatttcaga gagaggactt ccagccttaa ggcatgtatt tgataaggca aaattcaaag 300
gtaaaggtca tgaggctgaa gacttgaaga tgctaatcag acacatggag cactgggcac 360
ataggctatt ccctaaactg cagtttgagg attttattga cagagttgaa tacctgggaa 420
gtaaaaagga agttcagacc tgtttaaaac gaattcgact tgatctccct attttacatg 480
aagattttgt tagcaataat gatgaagttg cggagaataa tgaacatgat gtcacttcta 540
ctgaattaga tccctttctg acaaacttat ctgaaagtga gatgtttgct tctgagttaa 600
gtagaagcct aacagaagag caacaacaaa gaaattgaga gaaataaaca ctggccttgg 660
aaagaaggca ggcaaagctg ctgagtaata gtcagaccct aggaaatgat 710

<210> 2754
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2754
gtnnnnttttt ctaanttgnn ncttnaaatt nctaancgct tgttctttnt gcaggatccc 60
atcgattcga attcggcacg agcttacttt gatcctcgtg aggcataccc agatggaagt 120
agcaaagaaa agagaagagc agcaattgcc caggccttag ctggcgaagt cagtgtggtg 180
cctccatctc gtctcatggc attgctggga caggcactga agtggcagca gcatcaggga 240
ttgcttcctc ctggtatgac catagatttg tttcgaggca aggcagctgt caaagatgtg 300
gaagaagaaa agtttcctac acaactgagc aggcatatta agtttggtca gaaatcacat 360
gtggagtgtg ctcgattttc tccagatggt cagtatttgg tcactgggtc tgttgatgga 420
ttcattgaag tatggaactt tactactgga aaaatcagaa aggatcttaa gtaccaggcc 480
caagataact ttatgatgat ggatgatgct gtcctctgca tgtgtttcag canagataca 540
gaaatgttag caactggggc ccaagatgga aaaatcaagg tgtggaagat tcagagtgga 600
caatgtttaa ngagatttga ganggcacac agtaagggtg tcacctgtct aaacttttct 660
aaggatagca gtcagatcct taatgcttct tttgaccaga caattagaat tcatgggtta 720

aaatctg 727

<210> 2755
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 2755
cttcaaatcg ctnggctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agggcagacc atccacatca gtttcagaga aaaacaataa tcttgtttgt gccgtgatga 120
agaggactga cagctaacag cagaaacaat agtcaggagg ttgagaacag gctggttaac 180
atggtgaaat gccatctcta ttaaaaatac aaaaattagc taggtatggt cgcagacacc 240
tgtaatccca gctccttggg aggctgaggt gggagaatcg cttgaaccca ggaggtggaa 300
gttgcagtga accgatagtg ccattgcact ccagcctggg caacaagagt gaaactttct 360
ctcaaaaaaa aaaaaaaaag atgtcaagcc ccttctcttc ctttctccac catcatggtg 420
tgtacttgac tctgcttctc accagatctt ctcataagac tatcaggatt aagcaattcc 480
tggccaagaa aaaaagcaaa attgttccat tccccagtgg attcagatga aaactggtaa 540
taaaatcagg tacaacttta aaaggagaca ttggagaaga accaatccgt gtctataagg 600
aattgtcatg agatggcaca cattttatg ctgtctgagc attcaatcac gttaccatat 660
caagcagaaa atgtcaccat tatctggaga gttggacatg ttttattg 708

<210> 2756
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2756
ttnnnnnttt aancnttcaa atcnctaggc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgagccca cactcggaca ctgtggaatt ctaccagcgc ctgtcgaccg 120
agacactctt cttcatcttc tactatctgg agggcactaa ggcacagtat ctggcagcca 180
aggccctaaa gaagcagtca tggcgattcc acaccaagta catgatgtgg ttccagaggc 240
acgaggagcc caagaccatc actgacgagt ttgagcaggg cacctacatc tactttgact 300
acgagaagtg gggccagcgg aagaaggaag gcttcacctt tgagtaccgc tacctggagg 360
accgggacct ccagtgacac cggccctnc ctctacccac ccccttcccc cgcatgctga 420
tcccccctgcc caggtaaggg ccctgccctg gaagactgga gggaggcccc aagccacggg 480
gcatccccct ctcccaggaa gcagggaggg ggccgggagg ttttcctctc aagccccacc 540
ctgggggccc gggggcgagg gctgcccccc cctcccctcc ccagtgaggg acatttttg 600
gtaaaaccta ttttcatttt ggaaaatatt tatgaataaa tagttttata tgaaaaaaat 660
tntngnnntt nnnatnnnan aataaaancn tcgnncctct taaaactata gtgaagtcgt 720
attaccttag 730

<210> 2757
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2757
tntatntaca gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagac 60
caagagaacg cggtcagaag gaggtggaac tggggagtcc tctcagggag ggacaagcaa 120
aagactcaaa gtagatggac agaaaaactg ctgtgaggag gggaaagagg agcagcaggg 180
atgtgcaggg gacggtgggg aagacagggt agaagagatg gttatagagg ttggagagat 240
ggtgcaggac tgggccatgc agagccctgg gcagccaggg gacctgcccc tgaccactgg 300
aaagcatgga gcccctggag aagaggggca gcccagccac gcagccctgg cagagcgggg 360
gcccaaggga catgaggcag cccaagaatg gtctcagggt gaggcaggga agggggcatc 420
cctgccctcc tcagcgagct ggcgctgtgc cttgtggcac cgagtgtggc aagggcggcg 480
gcgagcccgt agacgcttgc agcagcaaac caaggaggga gctggaggtg gcgctggcac 540
aagagcangg tggctggcga ctgaagctca ggtcacccan gagctgaaag gactgaatgg 600
tggccaaaga aaggcccaga aactgagccc ctgctgaact tttgtggccg tcttgtcttc 660
ccggctgacc cgaatgctta ctgtgacccc gcttcangat ccccaaggnc 710

<210> 2758
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 2758
tnnnnnttca aatngnnagc tcttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagccaga gctggcagaa gaaaacagta aagcttagag tagaaataaa tgaaataaag 120
aacagaaaaa tatagaaaat caaaaatacc aaaagttggc tctttgaaaa gatcaacaaa 180
attgccaacc cttttaagta gacaagaaag aatgaattgt tggtggtgca gtggtgagca 240
tagctgcttt tcaagaacaa aaaagactca aatgactaaa atcaagaatg atcaagaatg 300
agagagtaga cattactaca gatcttacag aaatgaaagg attattaatg agtactgtga 360
acagttgcat gccaacaaat agtctaagtg aactagacaa atatctagaa agacacaaaa 420
caaccaaaac cgaatcaaga aaaaaatata aaatctgaat acacgtataa caagtaaaga 480
gattaaattg gtaccacaaa gaaaaactgt caccaaggta aagtccagac ccagatggct 540
tttttggtga attccaccaa atgtttaagg gagaattaac accaaatcta aaactaaacc 600
agacagagac attgcaagaa aaccacagac caatatccct tatgaatata gatataaaat 660
cctcaacaaa gtactagcaa atcaagtcca tgaacatata caattctatt ttactt 716

<210> 2759
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2759
gtnnnnnctte aaatcgcttg gctactcgnt ctntntgcag gatcccatcg attcgaattc 60
ggcacgaggg gtgcagtggc tcactcctat aatcccagca ttttggaagt cctatgcagg 120

aggattgcca gaggccagga atttgagatc agcctgggca acatagtgaa actctcatct 180
ttataaaaag taatattaaa atttttaaaa gtgtataaac tgtaaagtat attttactgg 240
tgttttcttc cttattccta cttgtcagat gcaaatacac atttttgtgt gtttgtgttt 300
agtaattata agtatacata tttcttctat ttcatatatt tctatgacat tatatcttag 360
atgtgtaatt tatgaactac tactggatta ttttaatcca ttagaaatta ctattcacgc 420
attctgtatt caattcatgt gatagctaat atatttggtt ttaaatgcat cttattttgt 480
ggttttcttc taggctgttt tttgtgcttt cttttaaaaa tatataggtt ttaataatct 540
taatttttctt ttagtttgaa atgtatatac tcattttatt cattagtcta agataaagaa 600
ttgtaacact tctctaacct attatanaat tgntaatacc tttacccttc tcttgaacac 660
atcaaaagga tgtcattgag tgttggtatt ggagtatagc atatctatta ttcng 715

<210> 2760
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 2760
ctttaaatct caagctcttg ttctttttgc aggatcccat cgattcggga gagaaacctt 60
atggatgcat tgactgtggc aaggccttca gccagaagtc ttgccttgta gcacatcaga 120
gatatcatac aggaaagact ccctttgtat gtcctgaatg tgggcaaccc tgttcacaga 180
agtcaggact cattagacat cagaaaattc actcaggaga gaaaccctat aaatgcagtg 240
actgtgggaa agccttcctt acaaagacaa tgctcattgt acatcacaga actcacacgg 300
gagagagacc ctatggctgt gatgagtgtg agaaagctta cttctatatg tcttgccttg 360
ttaaacataa gagaatacac tcaagggaga aacgggggga ttcagtgaag gtggaaaatc 420
cttccacagc aagtcacagc ttaagtccta gtgaacatgt gcaggggaaa agccctgtta 480
atatggtaac tgtggcaatg gtggcagggc agtgtgagtt tgcccacatc ctgcattcat 540
gataaacagt ttgctgtttg atcatatagc ctncagcgga atgctgagtt tgtcatgtcc 600
catgggcctt tggctccctg cactaatatg tatagtaggg tttacaagat atgaaatata 660
ttttactttt ttatatctta taaacctcac tacccttcc acaata 706

<210> 2761
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 2761
tnnnnnttttt ntaatcnngn nttnnctttg caaatcgana ngctacttgt tctttttgca 60
ggatcccatc gattcgaatt cggcacgaga tggtgttttc acctggaagc tgagaagaaa 120
ggggctttaa tggaacaaat agcacatcaa gctgttgtaa tgcagtttat tatggaaatg 180
gccaaaaact gtaatgtgga tccaagaggg tgttttcgtt tatttttcca gaaagccaaa 240
gcagaggaag aaggttattt tgaagcattc aaaaatgaac ttgaagcttt caagtcaaga 300
gtaagacttt attctcaatc acaaagtttt caacctatga cagttcagaa tcatgttccc 360
cattctggtg ttggatctat aggtttatta gaatccttac cacagaatcc agattatctt 420
cagtattcta tcagtacagc tctctgcagc ttaaactcgg tggtacataa agaagatgat 480
gaacccaaaa tgatggacac tgtataattt ggttaagact gctgaggcca agtgctattt 540
tgttacaaga aaggaagaac ttggctattt tcttgacact tttatgggtg ctgcacttta 600

ttttttgttg gtttttgatg ggagggaaag agtactgaaa tgttttgtaa attttttta 660
atgtgctgct aggtttttg ttttgtttgg tctgaagaga agagtggtcc atatgttgca 720
ggaagt 726

<210> 2762
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2762
cntnnctttg aanttgnaaa tngctnggct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggtcac tctgtcaccc aggctggagt gcagtggtgt gatcatagct 120
cactgcagcc tctacctcct gacacaagct gtcatcccgc tttggcttct caaagtgcta 180
ggattatagg cgtgagccac catgcccgac cagtttctgc ttttattaaa attgttcaca 240
gttttataca ttcatgttca ttaaaaatgc tatttagaaa agagtttgat aaaataaata 300
ttatacaaaa ttcgaagaaa aaagaaaaga gtttctgttt cagtcacaaa ttagggttat 360
tgtgatgtgt atttatgatg accattgaac aaatgtgaag aatactgtga attctatgac 420
tttatcaaaa tcagccacat ccaggagctt gcagttgttg accaaatgaa tgatgacata 480
gagtagttca gatctatcat gtgctcttct atctaatcag tcaatatttc cttggccctc 540
aagccaacat tcatttttta tgtataacct tcttcatgat tttgaaattt tgatagggta 600
actgctaatg agttcacaaa tgtagcactt taaaaggaaa ataaatggag agtgaaaaca 660
acttggctac gtataattgt ggggttttaa ttttctggtt ttaaaanaaa 710

<210> 2763
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2763
gnaaatnngc tcnnntgcng ctncttgntc tttttgcagg atcccatcga ttcgttttga 60
cattgttaca agtaagcagc tttattggtt cttttactta cgtctttaaa tatatggagc 120
aacagtacgg tcagtctgca tctcatgcta acttttttgtt gggaatcata accattccta 180
cggttgcaac tggaatgttt ttaggaggat ttatcattaa aaaattcaaa ttgtctttag 240
ttggaattgc caaattttca tttcttactt cgatgatatc cttcttgttt caacttctat 300
atttccctct aatctgcgaa agcaaatcag ttgccggcct aaccttgacc tatgatggaa 360
ataattcagt ggcatctcat gtagatgtac cactttctta ttgcaactca nagtgcaatt 420
gtgatgaaag tcagtgggaa ccagtctgtg ggaacaatgg aataacttac ctgtcacctt 480
gtctagcagg atgcaaatcc tcaagtggta ttaaaaagca tacagtgtct tataactgaa 540
gttgtgngna agtnactggg nctncaganc ngaaaattac tcancgcact tggggtgaat 600
gcccaagaga taatacttgt ccaanggaaa tttttcatct atgttggcag ttcaggnctt 660
aaaactcttn ggtcctctgg acaaggaggn nccacattaa tttggtnact gtgaanatgg 720
ttcnncctga attggnaagg 740

<210> 2764
<211> 734
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 2764
anngttnatg aagcnctttg naannnccnn cnangagncc tcgatncgca atgaactact 60
ctgcagcctc atttttaaa aaatgagata ggtnagtgtg gatataaata actgtccaac 120
atatatagct gagtaacana aatagcnaac tagaaaacna tgtattatnc catntgtgct 180
gaaatatgna tgntggtatg tgnaaatatg tatggntgta tagacagatc tttnctaaaa 240
ttttttcatt nntaattnnn gtgggtacat actangtata tatntttgng gggtcctgag 300
gtattttgat acaggcatgc aatgtgaaat aatcacatnn ncntnnntgg ggtatccatc 360
cccncaagca nttgatctnn tgtgtgcaaa cattccaann gnatnccttt agttntccat 420
aaatgngcaa tnaannntngn ctatngtcnc tntggagann natcngnant natctcaatc 480
nncccatntg tnacttganc cattgaccat tcccaccaat cctgaatgcc tcantaccct 540
tctcaccnat ggnnctcttg cttatangct ntntgtcnat gagttcaatc gtagtgantt 600
taganncngg acttccatgc gaacatgntn aaggccggcc tntntggcct ggncttactt 660
aaatnaacca taatattgcc natgacagga acggatactn tgctaacggc cnnatagttc 720
cncatttggg accc 734

<210> 2765
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 2765
ggnnnnntnt nnanatacag ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagtag ggtcttagta ctggtttggg cataattata ctcagtgttt gggcctctgc 120
taaaattcta agacgataag aatatcagtt taagttctgt tacagttgtt ttcatgaagc 180
ttgtaagatt gatatttaag tggacaaagt gggaagtagt cagttttcag ggctccaggg 240
gtcatcactt tgtgctcaga gtacagctgt caactagtga tttggtgcat ttagacaagg 300
aacaggagca aagggcctat ttcaagaggg tcatagacac tgccttgtga taagtgaatg 360
gctagagggt ttcttggtaa actgaagtcc ttttcacatt tttagctttt tctgtggcaa 420
cctgtctttt acagaagcta ctcatgaact ctggcttttc attttcaggg ttgggctgga 480
cattctttga tttnntgntt tgnttngntt tctgagacag agtctctctc catcacccag 540
ctggagtgca ctggcgtgat ctcgctcact gcaatctctg tctctcgggt cnggtgatct 600
cctgcctcag nctnccgagt agntgggact gcagtttcat gctacacgcc caggtaaatt 660
tttgngattt tgatagaana cagggttttg ncatgttggc cgggctgnct cnaactcctg 720
acctnaat 728

<210> 2766
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 2766
cangctactt gttctttttg caggatccca tcgattcgaa ttcggcacga gcatttcttg 60
tctttattaa tttgacttct ctagggacct catttaaatg aaatcataca gaatttgaac 120
ttttgtatct ggataaaaaa tatatacagc attttgctga ctgtaaaatg tatttttttg 180
ggccgggtac ggtggctcat gcctgtaatc ccagcacttt ggtaggctga ggcaggtgga 240
tcacctgagg tcgggagttt gagaccagcc tgaccaacat ggagaaaccc cgtctctact 300
aaaaataaaa aattagccag gcgtggtggc acatgcctgt aatcccagat actcaggagg 360
ctgaggcagg agaatcgctt gaacctggga ggcggaggtt gcggtgagcc gagatcgcgc 420
cattgcactc caagccttca attcctatct gtgagtaggt cctcaaggct tcctctgctc 480
ccagtcggac aacccatcgg ctgggacagt actgattctc cagctnctct gcagacatct 540
tcttncaagg aaccttgctt gggaaaccca caccaggcct ntagaactat agtgagtcgt 600
attacgtaga tccagacatg ataagataca ttgatgagtt tggacaaacc acactagaat 660
gcagtgaaaa aaancttatt gngaaattgn gaagctatgc tttatttgaa cc 712

<210> 2767
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2767
ggnntttgcn aatnctaggc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagcagc tactcgggag gctgagggca caagaattgc ttgaacccgg gaggcagagg 120
ttgcagtgag ccgagattgt gccaccgcac tccagcctga atgacagagc gagactccac 180
ctaaaaaaag taaaagaaaa aaaagaggaa gaattagcac atttctatta cagaattgga 240
cttgaacatg caaaatcatg tctggatttc tcagtgaaaa gctgttttac gttagtggac 300
tcttctaaca ttttgaaatg gtgatctgga tttgggatct ggctatcact gacccacctt 360
gggtctgtga atgaccaact cacctaggng ggagtcagtt acccctgccn tacantggcc 420
catggancac ctgcggnaag aangnntttn tgcttactga ttcttncatc tatggtgtcc 480
aattgggaag gatcctgngc cattgactga nctctntgag ggttgttatn aagcttgtgg 540
atccattctc atgactactg ggaaatttct gtgaatttga ccctgcccct gaactccaag 600
gcagcttttc ccctnnaaag gtnaaatcca ancctatta taactggggg ganttgttng 660
acaaaatttt ngggctantt taccgaccaa anttttcnct gncctanaaa tgttcgnacc 720
cnncccgnan tttggnnggc ttcacccccc c 751

<210> 2768
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 2768
gtaannttte naatgcttgg ctactcganc tctntgcagg catcccatcg attcgtncnt 60
cntgtntang tcgncncagn ccttantngg gatacttaaa tntactattt ttnccnngta 120
ctctcnagga tttggatatg acttnncaga tnnanatgng nnaactnatn ngagnataat 180
ccntgaacag nntttgttcn ncncatnctt ggagaggncn tgntatatnc agntcatgca 240
acactatcna ntnagggtat nnnccgncat ccatagtgaa tnatngntaa nccactngag 300
ggntncntan nnatntctgt nnagcncaga ccncnatnan nangannaag agcacntgnc 360

atatngnagn gnnagttact ncancntcnt gangtggaat acnnatgaca tcaatcgagn 420
tnaccatnac gcanntgtac tgaganttgn gancctcttt ntaccaggca tatgtcaatg 480
gtcnaanaga gnccatnnna cntnnaccnt tntggctnna tgttngntcn nccnttgnan 540
gctntcctnt gcatgantgg ganntcaaan nttcnggacn ncaatttang ggncttaann 600
tnaaaggnnc cannctnggg ctctcnataa taaccantan nggnaaaatc tgnaaccctt 660
gctctaccta nncctagggn gancctggga tttgtnnnnn naaaantccc aacccttnan 720
tacttgagan gntnccncgn ntttnnaagn nactttgnng atagcnnccn aaatgttnnn 780
cnnntcangn aatccnntgn 800

<210> 2769
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 2769
gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgaggatc agtgaaaaac 60
attagtatac gtttttaaat aggctaattt ttcaacttgg atcattaggc ttacgtacta 120
cttgtttcaa atgtgtcaaa tacaaaaatg gtaactaggt tgacagatac tttgtatttt 180
tcttttgaat tcagacctgg aatgtaagta agtgacaatg cttatggaaa gccagttagt 240
tagaattgga aatctgtctt gtcattttac aagcattaga ttcctttcct gtgtgaagaa 300
agcctcagtg aaacaggtct ttgccataac tttatgaagt gctacagaaa gcacaaagaa 360
ttgattcatg ttcatcaata cctgctgaga gtactgtccc aggaatatcc agtggatgga 420
ttcatcatcc aggaggttca aaagtaagat ggttttcaaa tcatttttga gactggtgca 480
taacagcagg gtacctgaaa agagccttct gggagttagt gaactaggta natggttttg 540
ntcacatacg ccccatcaac ttaaaagtga atggctttgg tataaatgan gtcactatgg 600
acttacccta aagatcttct gtacttctgg cttccatagg acaaatgata agtnctactt 660
nctcatctct tngggttatt aattggaann cttgcattca tgggtattga aattnaaa 718

<210> 2770
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2770
gcaatagttg cnaatagcna ggctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagc tttttctcac tgaaatattt aagcactgca ttttaagaaa acttcctatt 120
cattcgtaga cttttatctg gccagatttc cactctgagg gcttttcttt ctagttatct 180
gacaaaccat aaatttttatt tcctttaagg gcaaaaccaa cctccaagca catttatggc 240
ccatgtttta agagctggcc gncctttcta tcctgtatct ctggttaaac gtgttttctt 300
tntcttggag caaatttttc aaagaggggc taaagctatg tgttcctctg gagagaactn 360
ctgcctaccc agcangaaag aaaatgccag agaagcctcc gacctgggtt ctgcccctgg 420
tagccaggtc tcaggctana agccttcttt ttggttgcat tggagtcctt ctctacctca 480
cctttattgc acttccttct tggttcnnat gtatnctcct ctgnctnctt taaagantgg 540
caacttttttg gactttggac aattcctgtg tagcaatctg ggctgatttt agagaggcct 600
tctgttcctg cttccaatga gctgattggg tgatcagctg attttattac ctttccctgg 660
aggaagtana gtcccaggat gntggggaag gcccnntggg gacccctgaa gccctttatg 720

ttgacccctt 730

<210> 2771
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2771
gnnttnanan agctngnnnn nnnctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag cagactcgca ttatggacaa gtcccttctc cccacacaaa ggaagacata 120
caccgcatag tccatttcat ttcagctcct gatggcatct gaccgccgtg gacacttccc 180
agnggtntgg cttttggagg gagagtanag cggnggatga tctgtgccag ttggncactc 240
cttggatatt ggngttatnt ccactggtct tgntgctcct ctgtgttgat tttcattaac 300
tcatttcacc tnaatgaatt ctggagcctg gctganatng tgcntactct ntgncagagg 360
atcatcatga acaaccccct atgtagcaag nttcccaggt tttttcagaa gtggtgaatc 420
catgccttgg cattcntgga ttattccatg tcatgtcaga tcattcatna aatnnatatt 480
gacacatgtc atgtgatgcn ttctatgctg acaccatcag gaattcaaaa nggtgaccac 540
acgttgntnt gntcctgagg acttccaggg ttanaaaaan anataaaaaa aacttgaggg 600
ctntaaaact atatgagtcc natttacgtn gnancngaca tgaatncnga atncattgaa 660
tgaantttgg ccaancccnn aactatgaat tgccgttgac aaaaaggcct ttttttgnga 720
aantttgngc tgcttttgnn tttaatttgn naacc 755

<210> 2772
<211> 632
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(632)
<223> n = A,T,C or G

<400> 2772
gttgagctgc tcttgntctt ncnctggtnc natctgcagg atcccatcga ttcgaattcg 60
gcacgagccc ttctgagnnt gtccattcat nggtggttct gcccctactc cccnagccct 120
naatacccca tctgctgttc ctaccnatcn nncanccacc ggannntnca ttcagcnntt 180
tgtctgaccc ctgnagcccn gagggnngga gcagtgcnnt acanctcctt tnncaattgc 240
tggncagacn gctatntgtn nctnanattn aanactttct gtctanttcg anctgacntt 300
cannactaac gctncaatcn gngattcntt ctttaatccn tnaggtatct ntnattnctg 360
ngctnangan gngccttnaa nngctgagct tacntgccng ngantgnngn tattgngann 420
anggatnctg acattgnctt gntcacagtc nntntnagcg tgcactgnga tganaanctt 480
gaccctgacc attanttgcn naccgattna ttgcctgatg tacanatctt gntgnnanga 540
ccactgatct agatgntctn atctanatna tcnactgntg acattgtcta aancatcacn 600
natcaaagtt ttagatgcag tgnttgagaa tc 632

<210> 2773
<211> 744
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2773
gtctatgctg gntannnata caggctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggaccaagga gatgtgagtg aaaatgatgc aggctgcttc caggtgtgac 120
cagtaagata cttcccacat aatcttccta ctctttcttc cctgtttggc atcccatgtg 180
ctaagaatgg gaaccctgag gtcctatatg tggaaccata aggtaaatgt ctttgggctc 240
tgaatctcac acagggctca ctgagaataa gaaacatcct tcttgggctt tgtatgaata 300
agaaaatact agcaaatttt taagaaggaa gtaattccag tatttcacaa acccttccaa 360
agaatagtaa aaacaaagag ctttcctttc ctcgttatct aaaattagcc taactttgat 420
agcaaaacca gctaggagag ttgcaaagat aataatcaga agccagtctc actgaacata 480
aatgtgaaag tcttcagcaa aatattagtc tacttcgtgt tcacatcttt cttatgggag 540
actnttttgt ntggttggtt ttganatgga gtttcgctcn tggttgccca ggctggagtg 600
caatggccgt gactttggct naacccgacc tacgcctggg agacattttt attttcagaa 660
tggacccatt ttctctactg gtntgggcnc aaaactagac tctggattaa ncctcccctg 720
ngggttanga agtgggccat ntna 744

<210> 2774
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 2774
gtctatnctt tgaanctctt tgctacttgc nngntctgtn tgcaggatcc catcgattcg 60
aattcggcac gaggatctct ttngaggtga tggtgctntc cgagctgttt ctggagatgc 120
tccagaggga ttttggctat agagtttata agatgctact gagccttcct gaaaaggtcg 180
tgtccccacc tgaacctgag aaggaggang cngccaagga agaagccacc aaggaggaag 240
aagccatcaa agaggacgtg gtcaangagc ccaaggatga ggcacacaat gagggcccgg 300
ctacagagtc agaggccccg ctgaaggang atgggcttnt gcccnaacca ctctcttctg 360
ggggagagga agaatnnaaa accccggggc gaggcttctt gaggacctgt gtgagatngc 420
cctggaccca gaactggtgc ttnngangga tgatggatag gaggaagttt gnaggagcaa 480
agctggatga tnctgangtn cggtncngnn cctaaaccag tcacagatgg agttctntnc 540
acttcaagac atgcccaagg acntggatcc ctnntgctnt gcttccctta nactgnctgg 600
ttccttttag nggttctttt gatnccaact gatgtngctt ncttgcaccg gccangactt 660
ngnganggaa ccttcttacc cttgggatcc cggnttaaat ggnanaccan ggccaancca 720
aatggtttac cnagggnngg ngaacccnan aaaaattttn 760

<210> 2775
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 2775
gggnnnnnnn nananataca gntgttcttt ttgcaggatc cctcgattcg ctggaattag 60

attgtgtagg gcccgacatt ggatttattt taagtacaat aggaagccac tggaatgtga 120
taaccagagg cttgatgtaa tctagtctaa tctattaaag gattgctgtc tagtttgtga 180
taaatggagc cttgaccttg gtgtcaagaa attgtccttg ataccagcaa ggccaatttg 240
gaggttattg ccattctgag atgagaagca gtaatgactt ggtgtttatt tgagatagaa 300
agcaagtaaa atagaaacat tttctggtag tagaggcaag aaaacttggt gttaatatta 360
tcaaagcaga taataagaaa ttgttactgg gttgtagtaa ttatctcact gatatttaaa 420
cccttgggtt tattggactg ggtggccgat gtttgggtaa gaaggaaatg agaagtgttt 480
ttaatatggg agatacctta gcatatttat aaacaaaaac tgataaacaa ggacaaaact 540
tccacttatg gtcacggtga agtaactgat actggcccgt gttttctctc cattaacaac 600
tagaaatctg gttgcatacc caaagaagct ggctctgatc cacactaatn aaattgnnaa 660
aaatncangc tttaatgatc taggatccca aaagtantgt ggtcaaagcc aaatncaaaa 720
gtcttttaag gaagacc 737

<210> 2776
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2776
ggggnnnttg caaatncnng gctgttcttt tgcaggatcc catcgattcg ccagcccctc 60
ctctccccgc cttctgggag gaggaggtca cacgctgatg ggcactggag aggccagaag 120
agactcagag gagcgggctg ccttccgcct ggggctccct gtgacctctc agtcccctgg 180
cccggccagc caccgtcccc agcacccaag catgcaattg cctgtccccc ccggccagcc 240
tnccccactt gatgtttgtg ttttgtttgg ggggatattt ttcataatta tttaaaagac 300
aggccgggcg cggnggctca cgtctgtaat cccagcactt tgggaggctg aggcggncgg 360
atcacctgag gttgggagtt caagaccagc ctggccaaca tggggaaacc ccgtctctac 420
taaaaataca aaaaattagc ncgggtgtgg tggacgtgcc tataatccca gctactcngg 480
aggctgaggc aggagaatcg cttgaacccg gtaggtgggg gttgcngtga gccaanatcg 540
caccattgca cttcannctg ngcaacaaag aaccgaaact ctgtcttaaa ataaatnaan 600
nnattaaaag acagaaangc aagggggtgc ctaaaattct aaaactttgg gggtccaaca 660
ccngggcaac cggnggnttg caaacccaaa caaccttggn aaggcttcca ttttntttcc 720
caaagcccnn anncagaagg ggtcattgcc gggccccaaa aggaaaaaa 769

<210> 2777
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2777
ggggnnnttg caaatncnng gctgttcttt tgcaggatcc catcgattcg ccagcccctc 60
ctctccccgc cttctgggag gaggaggtca cacgctgatg ggcactggag aggccagaag 120
agactcagag gagcgggctg ccttccgcct ggggctccct gtgacctctc agtcccctgg 180
cccggccagc caccgtcccc agcacccaag catgcaattg cctgtccccc ccggccagcc 240
tnccccactt gatgtttgtg ttttgtttgg ggggatattt ttcataatta tttaaaagac 300
aggccgggcg cggnggctca cgtctgtaat cccagcactt tgggaggctg aggcggncgg 360
atcacctgag gttgggagtt caagaccagc ctggccaaca tggggaaacc ccgtctctac 420

taaaaataca aaaaattagc ncgggtgtgg tggacgtgcc tataatccca gctactcngg 480
aggctgaggc aggagaatcg cttgaacccg gtaggtgggg gttgcngtga gccaanatcg 540
caccattgca cttcannctg ngcaacaaag aaccgaaact ctgtcttaaa ataaatnaan 600
nnattaaaag acagaaangc aaggggggtgc ctaaaattct aaaactttgg gggtccaaca 660
ccngggcaac cggnggnttg caaacccaaa caaccttggn aaggcttcca ttttntttcc 720
caaagcccnn anncagaagg ggtcattgcc gggccccaaa aggaaaaaa 769

<210> 2778
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 2778
gctatgtgga aatcgcnagg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagagg aagctggttg agaagaagaa ggaaaaagtc gattctactg actgacgttt 120
ccccctgctg ttaagaatcc caaccacaca ctttcacaca ctattccagg ttctggctac 180
tgaatgatcc cacagctgag gtctattgnc atcgctccac ttctattttt agcagcacta 240
aaaacattcc caaaaaaaat gttttttagc tttttaactg tagattcacc actaagaaat 300
tggcattgga acagtccaca gagcttattc aaatttcacc cattttacat gcactcattt 360
gtgttgcatg tgatatatag ttctatttca ttttatcacc tgtgtagatg gatgaaaaca 420
gcaacataag caagatacag agctgttccg tcatcacaga gctctgccat actatccttt 480
tatagccatc tctacctctg tcccccattt ctaacccctg gaaaccacta atctgnnctt 540
cataattttc ttatttcaag aatcttacgt aaatagggat cacgaagtat aacctttgag 600
aatggccttt tcactncatt cccttgagat acatccaggt agtngcatgt atcaatagnt 660
aattcctttt tattgctaca cagtctccat agtatgaata tactatgtac atagcatatn 720
tatttatagg tnacc 735

<210> 2779
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2779
tgcgtcgnng agcgtgcnan tcgcatngcc nanaanaatg gcggggcgca tccctgacag 60
ttggataata ggttccagga agttcagtgg aaaatttttt caaagcaaca tttatagctg 120
attgaacttg aaaagccatt ttggtgttga atggcaaata tgtggacttc agcattcctg 180
gagcctgatg catcccgctg gatggccctg ttcctgtgta catgatggcc tggggactca 240
gcagtgtgca gggtactctc ctttagaggg tgctttgagg aaagaagttt gctgccactt 300
acagaagtcc ccttcccata cagtgatata acacaagtac cccatgtcca gggagcatct 360
ttcctctgat ggcttgagga cttatttatt aaaaggacag gaatgtctgg caagaaacag 420
aggagctctt aagtactgta aatactccta gtcactctgc atcagggctg caagtntaag 480
cagattgctg tggtgtatac acatgatttt agcatgataa cacttctgtt taaatgncct 540
tagttggtcc gggngccacc actggcgtga gccttaagaa aggctaacgc cgntgngaag 600
aaagggcttt ataggccgng nntggagngg ntaaattntc tttagaactt aaaagaagaa 660
cttgcagggg atggggaagg ggaaaaatga acccatnggt ncanggaaat ntaggtgaac 720
angagnaatt gaaccnattt gcaagnntta aagaaaang 759

<210> 2780
<211> 678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

<400> 2780
nttnnannen cagctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
cgttnacnga ctacgtgtng agcnctgtgn cagacnctga ntncacnntg gngaanatga 120
nngtctaggg gnctcagccc gtntnnttcn taatccagtg aganacnaan acatgtacac 180
aggctncgat nanttgtgnc aattgggaaa tgtgccatgc tactagggga tggatgagat 240
cncagcttan tcttggnaag aatgagtgng ncntngcaan taagggngga anagaatatt 300
atcaagagag gtgangaaag ttgncgngac ctcaagtgta caganatgag aatacnttgc 360
tgtntaaatn actgcttnac ctcnatangg gnngaggtnc ngtntnnntg agctaatcgt 420
atntcangng atgttatcng gaagaanaaa ggctnnnaaa cnntcncttt tnagncacgt 480
atgtgcactt aactgcaaat ggtactgggg gagccatata tggacttatc tgaaaatgac 540
ctancncaat tgnctttaga aaaancccng ctgccttgta actngtaatg gcaactgagg 600
tggtagacat atngatttgc actatgagtn gaatncttat ntctgtnnga gtgcattcct 660
tcgtggntng gactgaac 678

<210> 2781
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(682)
<223> n = A,T,C or G

<400> 2781
ggcacgagat ttttttgtt cgaatgagcc ttaatcttnt actagtgatt ttttgtttga 60
aggagccttg atcttggcca ccgaaaaggt naaaccagtg gcaagcttga atgcttgttt 120
tatggtagac ttagatacga gaacgggtaa agggtactgg ataaacttgg gatataagat 180
tgcttctttt atgcatacca ctcataccac tggtgggaaa tttcatttgg aattactccc 240
tagggccatg gagtcttcct gcatatgcta ataatgtaag ttcccattac ctttggtaat 300
aagaaaatat ctttaaaaca agttagcttt tcctattgnn tatatatgga aggacangct 360
gttttccctn ctgtgcattt agcattttgn gtatnctctc attgcncnaa ntatgcttat 420
aacattgtga aaccccgtct ctactaaaaa tacaaanatt agccaggcat ggtggagccg 480
tgcctggaat ccctgctgct taagaagctg aggcncaaga attgcttgac ctgggatgca 540
aaagttgcag tgancctaca tcacancant gccttcancc ttggggacaa aactgtttct 600
cnnnaaaaaa antaaanaan tttgagcctt taaaactatn gtggagncgt attacnntan 660
atccngacnt ggatnagaat cn 682

<210> 2782
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)

<223> n = A,T,C or G

<400> 2782
cgntgantnt cnannngcgg gcctcgctct ttcannaagn cnngcgnggn gaattcggca 60
cgaggagntc gnanctcctg gtggcgcttt tttgagctgc agtgctacaa gagtggcctg 120
antccaccaa gagaaggccc aggaggaaga agagaaaaag atgctgtggt tactagtgcc 180
aaaaatgctg gcaggaacaa ggaggagaag acaatcataa aaaagctgnt ctttttcga 240
tcggggaaac agacctagat ccaaggccac aagtaaggct atggctctga ttctagaaga 300
caaccttcca agatgcctgg caaaaccacc tccctgtgcc acacagacac actaggcctg 360
tgtatttatt tccccttcaa agcagactga ggagggagga gacgaggntc tcttggcatc 420
actttctccc tggctgcaga actagacacc cttgaagatt tggcctgggc cagtgagact 480
gaaatcaaga aaaacagaag ggatgtgcaa ggtgggggggg tccacttnct gctcccatgt 540
caaccccccan ggccttcagc gtgcagacgc ctgncctact catctgctcc cacnggatgg 600
accctgggct ttaangggta agcanaaagg gagaaaaaga aaacccggaa aatgngccta 660
ttggagaatt cccagngggg gaccttcacc tggatattta aanggaaana ttnggatttt 720
aagcccaaca tgcccttnct tttanggggg aantnngggg attaaaaagg naaaaaagga 780
ttcc 784

<210> 2783
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 2783
nnnttnntna nnnttgggct aacgccctnn aagnaaccag tcggnncgaa ttcggcacga 60
gaagacctgc agcttcagca tcacttgaga agttnttagg aatgcatact agtgggcccc 120
gcccccagac atagtgaatc agaaaccaac agggaggcgc ctagcattgt ttttttaaca 180
agtgctgggt tattctgatg cacagtctag tttaagaacc actactttgg gtaaacgttt 240
tgactgttta aagtttatgg cggtgaagtg ggcatcttca aagactagta cttacacagt 300
ttagaagatt tcaaggtact gctgacagta gtttattatg tcagtataca tacgtgtaga 360
gatcataatt tagttccctt cttaatgtta caatttctta gtttactttt cctaaagggc 420
catagcataa ttcttgattc ctggtggaaa tcttttctga ggtgtggggg tgggcaaggt 480
gtggattgct gtttacgata gtgccttcat tagttttagt tctgtctgtt ttcattcatt 540
attgactcaa aggtattaga acaggccctt atctttttcc tattagattt atttttgntt 600
tttactttat gtaagttcag aatccttttt ttaaagtgat gactactgat gaaataatgn 660
tactagtagc tgaatttaga cttgatgcta tgntgataat atttaaatgg tgaaaagtaa 720
ttaaggcaaa atagcaattn t 741

<210> 2784
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 2784
nttcnnnntn nttggctgtt nttcngcagg ancccatcga ttcgctgcct cctccttagg 60
cagagagctc cttggttcca tttgaaaacc ttccttcccc ttttgctgga attgagagac 120

tgaggacaca aagtggtgtg ctggagaata aactagagcc tgtggtgcca gactggcaac 180
ttggggattg tgtgagtgag ggagagattg tgcagagcta atcctaacat tgctgatgag 240
tggacagaaa ccataggcct catgaatagt gatttctgaa gtcaaagccc agtatgctta 300
aatatcaacc caagtggttt gggagagggg agcacagctt actgttctgc taaaattctt 360
tgaggaatta agtnagaata cgtgtaaggt acgtagcaat ggttatttac aaaatggact 420
ctgcctgcag attattagta tgtctcagat gtaaaaccag ctcaaaagta ctangacgat 480
ttgtagtagt atttaattat ttgtaaactt acaccgtttt tcttcacgtt tgcagaatac 540
aaatctttgn cagtagtgaa atgngaatct agtaggatta aactgngtgt aaaccttgtg 600
ggcgggatga agagaggcag aagcgcgtac tggtgctgta gttgcccgca agctcaaggg 660
cccactatgt actgctctgg gttgcactgc ccagaggtaa ggggaagctt ccttaagacn 720
t 721

<210> 2785
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2785
ggnntttnnt annatacagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggggt tctttaacct gtgcttcctc tgtcctactt cccatcctgc acagttcata 120
gagtcacttt ctgactatcc tatagacaca gtaattggac ctgtgttttt ttctaatctt 180
tatatgacag cacatttcct aattcaggga ccatccccta tcccaaattc catcctgtga 240
gatgtgaaac ctgtgagttc atgtgaatga gtgtttgaag ggcttgacgc catgtagtct 300
cttaggaagg cttcagggtg ctcttatgtt gatgctttgc cattatcaaa tggcattgat 360
tgatccgagg gactcagaaa gttagggtag actctataaa taatttcatt attcctcatc 420
ctctncgtca tcattttatt ggttagtcat tctgccagat cactaagatt cttcctctac 480
aggccccgca aaattncaca gagccctgat tctncacctg cagatggagt ctccctatcc 540
cattgctcag cttttcaaga tttattatga tgctggcaag tganggaatt tcttaagccg 600
agaaatcaga agttcatgcc tgttacctcc taagaacccg gngtnaaaga ccatntatcc 660
tggtctgana tggcgggcct ttagtgagaa ataagttgtt tttaagttgg ttcagaaaaa 720
aaaacccacc 730

<210> 2786
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2786
agagtttgng tgtagcgcct tcnctaagan nntggcggtn cgaattcggc acgagcaggg 60
atccacttgc cttaatttgc acagtgttct tataaatcaa cagaaagtac acataacaga 120
aaaatttaaa aggttaggga tcatttagga aaaaatgcaa atgccaacaa atgtgagaaa 180
atgctcaatc ttacttataa tttaagaact acaattcagc caggcgcggt ggctcatgcc 240
tgtaatccca gctacttggg aggctgaggc acgagaattg cttgaaccca agagggagag 300
gttgcagtga gccaagatca tgccactgca ctccagcctg ggcgacagag caagacttgt 360
ctcaaaaaca aacaancata aaacaacaaa naaattacca ttaaaaatga gagagttttc 420
attggcaaag ttaaaaagaa aggtgaaaga aaaacctact cttcttgatt tgtgtttggt 480

cacttatgga gaatttattt tgtcataagg nctgaatcat aattaaatat gttctttggg 540
tctancagtt cttctatttc ttgnattata agtaaacctt ggaaccatct tanacactga 600
tcatgaagac taatttgnaa taanaaagtt tctagccttt cattccnatg gaaatatggt 660
tgcccgntaa aaaaaaaagc ctctagaact tttagtgagt cgnattaccg ttagatccng 720
aacttgatta aggatacaat tgattaagtt tgggacnnt 759

<210> 2787
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2787
gnctttnaaa tcnnttgcta cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagatgggg tatagatggt tttccccctg tgtactctag taaatttcta tgccatttct 120
cctatcgatc tgccttttgt cagttgattt ttcagcttaa cttcagagag caaaggggaa 180
ggtggccaag tgcagtgtct catgcctgta atcccagcac tgtgggaagc tgaggcaggc 240
agatcacttg aagtcaggag ttcaagacca gcctggccaa catggtgaaa ccctatcttt 300
actataaaga aaaataagtc gagtgtggtg gtgcacactt gtaatcccag ctactcagga 360
ggctgaggca gaagaattgc ttgaactcgg gagatggagg ttgcagtgag ccaaaatcgc 420
gccactgcgc tccaacctgg gtgacagagt aagaccctgt ctcaaaaaaa aaaaaaaaaa 480
actcgagcct ctagaactat agtgagtcgt attacgtaga tccagacatg ataagataca 540
ttgatgagtt tgggacaaac cacaactaga atgcagtgaa aaaaatgctt tatttgtgaa 600
aatttgngat gctattgctt tatttgnaan ccttttttaag ctgcaataaa ccaagttaac 660
aaccaccatt ggcatttcat tttatggttt caaggttcaa gggggaagtt ttgggaaggn 720
tttttnaatt tccnggcccc ggngnccaat n 751

<210> 2788
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2788
tnttatntgn gnnctttgna antccccagg agcnnngcga ttcgctggat gaagactaag 60
catttaaata ctaagttgag ggcatantag cttttntgtg cctataatcc cagtgttttg 120
ggaggcctag gcgggaggat gccttgagcc caggagattg aagctgcagt gaattatgag 180
ccaatgcact ccagcctggg tgagagtgag accctatctc aaaacagcaa caacaacaag 240
atacaaattg agaaactgtt acttgatttg cgatatgtat tctgtccagc agtgatagaa 300
taacaaggac tgggtttacc ttgctatttt aagcaacaat atatgaaata gcaatttgta 360
ggcattgggt aacaggcaaa gcaagactgt ggtcactgaa agctgggaaa caaacctact 420
gagctctatg gttgccccaa tttattatct ggaggtagtt ttcaggctgc agagcaggga 480
tggggaagtc aaacagagca tggtgtctta gaattgggag gacaagatgg gggttggcgg 540
ggagggaagg ttgtcatcat tcgtggggca gagtaccaga gaagtgggaa gttgtacaca 600
gaacttccag tgataggtgg aggagtcttc tgaatctggt tgaatcctga tctacaggtg 660
catgaaaagg agaacaccct gaggncagaa aaagaaccca ctggaaacca caggccaaac 720
aattnctggg actcacact 739

<210> 2789
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2789
ttagnnnncg ncgcgntgac cnggaaancc ccaggagcnt nncgntgcga attcggcacg 60
agtcttctag gaatgagggg catcagccca ccccaggntt ttcagtgggg ttccgggcca 120
cctcaggact ccaagaggct gtgtggagcc accactccta gccacagctg ccatgataag 180
tccttccatg aaggactgag gagggagagt gggggtccag ggctggtgct gctcttccct 240
cagctctgcc ggggctctaa ggtcccctcta tttatttctc aaccctggct ggcctctcac 300
caggagttta ggctgaatgc cttccacgtg atggaggaaa aggccaactc tgtcctggtc 360
ttgctgtggc accccatcgc cccacagctc gtaccttctc accagattcc cctgaatcca 420
aactcgtggt gcaaacctct acctttttta caaaaagatc ttattgttaa tttattgntt 480
ctggcacttg ggcaaaccct gtagttaata ctcctcccac actagacact gggtttcagg 540
aggagggaga ctgccctgct ttggtcccag agaggccctc tgcagatagg cgtggccccct 600
cttcagagga cactacccta gggcactttc tctttgaggt ggagagaccc ataaagcctt 660
gacacatcac tncatatggg ggaggaagaa aggatccctg gcaccttctc ctctctttaa 720
nggggccctt ttgcaagccc tagncn 746

<210> 2790
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 2790
nccngnggnn cagacggaaa gcccangagc cnggcgaggc gcnganacat ganaancact 60
tgaaccngng aggtggnnga tgcagttttn ttttgattga gccattgcac tcnagcctgg 120
gcaacatagc gagactctag nctcaagaag annanaaata gactgagana aagaaganga 180
aaaaactnnn gaggccacca gtcctgngaa gacaacaaag aagcagggct ctgagagaga 240
ncnangaggg cataggtggc ccgaggacat naganggggtt nanctncang ngaaatnggn 300
gggaacggtg ntccaggcnt agggaatagc ncatgnaaan gccgtgataa agggaanaaa 360
ctnggtgnga tggaggaatg ncagagaggg cagaacagan cnagagggca ncattcgtag 420
gagacgaggg aatcacgggc ctgccaggcc atggangggg tgnggattct annacgaagc 480
ctgaggaaag tnaaggcngg gannancaca ncaaagatgc cancnggctt gggcttacgn 540
acctcccccа tggcngcatg ggaangaaaa ttaanatgnn cgcaccaaaa agttgnaann 600
aangnngaac gcagcnnngg tgnnannngnn ccccanggcg aaaannggnc aaagnanggg 660
nccggggtcn nggggcttgg aaaangatag gacggggngc caagnaaggc tccaanaaaa 720
atcgganccn ngggaanaac nngggaganc nngcnnggan ngggacaaaa attngggncc 780
cnggccaagg ncccgggngg cacccanatg ggcg 814

<210> 2791
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2791
cnnncnntgt actgnacngg nantcccatn agccnannga ttcgaattcg gcacgaggca 60
tattgtggag aggcacagtt caggaggaat agntttcgtc ttgaagagga ggacactttc 120
ctgtgaatca tgagggacag aagatccata tagaagaaga caatagcttt gatcttctat 180
tacaagaaaa ggaatgccag tgtaagagat ggcatgatat ggaagtgtat tccttttcag 240
gcctgcagag tgtccctccc ttggctccag aacgaagatc cacacttgag gactactctc 300
agtcgctgca cgccagaact ctgtctggct ctccccgatc ctgttctgag caagctcgag 360
tcttcgtgga tgatgtgacc attgaggacc tgtcaggcta catggagtat tacttgtata 420
ttcccaanaa aatgtcccac atggcanaaa tgatgtacac ctgatagcaa gaagctaatt 480
catatgcttt aaaccaatga aggcttgnca aagagattta gttaatggca gaccttgngg 540
ccactttntg tgagaagaca tctctttntg ctcactgtct tgcaataaaa acttttnttg 600
gcaaaanacc aaantttaga gtnanccntt aaangaaaaa ccttggnccc cttanaactn 660
ttntggaggc gnatttnccn tngaatcccg accttggatt caggaatcct ttgatnaant 720
ttnggaaaaa ccccccactt ggaaatgccc 750

<210> 2792
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 2792
agcttncnnt nnatnagtnn nggaactngc cgcannatcc cancnantcg ctccgcagca 60
ggcccctgct gtccccccac ctgctggctg agctcntnct ggcctcgtcc cctctcagct 120
gtagctgcac caccccccgct ctggctacca ggctctcccg gctgggcact gcgtggcctt 180
gcccctctcc cgctggcagc tcctcagggg aacaggggct accagaggct gatttctccc 240
ctctcctggg ccaggggagg ggtattatcc ctgcctcctg cccccgatgc ccaaagcagc 300
atcttccagc actttccatc gaggacttgg gtggcagant gtgggtgcag cctggctgtt 360
gctcacccaa gtgctagctc tgcacttcgt gtctgctgag agcaaccaag accttccatg 420
tcctcgaggc agctgcaact ccccgcgaga ccccgcannt gggtgggatg aacaaagcaa 480
cgcagaccac angcgagtgc ctgggaagga gtggnccang gtggttctgg agccattgtg 540
ggtgagggtt nagggccacc gaagtnccgc ncaccgntgn ctgccctgca ctggctttaa 600
caagttngnt ntgccaaana ctnttcaatt taccatcaag ccggtctant gtcttcaagg 660
nattggagcc tgcgattcct tcggggcacc ntggggcccc cnccggctnt gggntccctt 720
ggngggaaat gggcccaagc cgggctttgc nggtttcctt ccnttanggg 770

<210> 2793
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 2793

tctancttttg ngtgtancgc ctngcctann agantgggtg gncggaagat gaggaagcca 60
gcactggatc tcatctcaag ctcatnttag atgctttcct acagcagtta cccaactgtg 120
tcaaccgaga tctgatagac aaggcagcaa tggatttttg catgaacatg aacacaaaag 180
caaacaggaa gaagttggta cgggcactct tcatagttcc tagacaaagg tacggaaaaa 240
ggaccagatc aatattgaaa caaagaataa aactgttcgt tttataggag aactaactaa 300
gtttaagatg ttcaccaaaa atgacacact gcattgttta aaggttagtg ctgaattagt 360
tgattgtttt taattgaaaa gtttaaagnt ttaattatna atggtggata aagtgaaata 420
atncaatatt tgattaatcc aaaagaagac cangaaanga agaaaaagtn acgtttaaca 480
agtgtgcana atacaaaaca natagtgaga tcttagatac ttatgcagtt ctaccgagtn 540
nttaccgtga aatntaaaaa agggnngaaa atantntcca aggttaaagc ctttaaaaan 600
tattannaac tttggattca aaaacaaact nncttatgga agccntttтn ccaacnagga 660
ngtccanccc tttaaaatan tgaaaggatt ntgtaaaaaa aanannntta aaaaaacttt 720
gngcnccctt tttaaancnt nttttgggng ggggcctttt nnccgtnaaa attccctacn 780
ctttgtatta nagnacncct ttnggg 806

<210> 2794
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 2794
tnanttnnnn ggttggnngt tcttcnntaa gatncaancg atncgaattc ggcacgaggg 60
cacagtcagg gagttagtta gtgggtagac tcagcaggag ttggttgcta ttcagatgtg 120
ttggggaaag tgacaggcat agctgactcg gggtcattca ctaagccagg agcccaggaa 180
gacacacaga tgcaagcaga gatcgtgcca ttacactcca gcctgggcta cagagtgaga 240
ctctgtgtca aaaaaaaaaa gaaagaaaat gggcttgtgt ggtagcaggt aagaaattga 300
atctctgttg tacagcagct agctgtactg catgatcact tcccattccc cagctgacag 360
tggctgtctc tggaactcct accacagtct tcaattggta ggccagccct ggtgccagtg 420
attttatctg ggcatggaaa atgccacttg cttctgtgga agagacactt aaaagatctg 480
gcagtcggcc gggtgcggtg gctcacgcct ataatcccaa cactctggga ggtcaaggca 540
ngcggatcac gaagtcagga gatggagacc atnctggcta acacggtgaa acccttgtct 600
ctactaaaaa aaaangnaaa aaaaaactcg agcctntana ctatagtgag tcgnattcct 660
agatncngac atgataagat ncattgatga gtttggacaa ccacactnga atgcntgaaa 720
aaaatgtttt tttntat 737

<210> 2795
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 2795
gtaaagtgct cttgttcttt ttgcaggatc catcgattcg aattcggcac gagggcagtg 60
ctgcgcgggg ctcccagccc tgctgggaag gaccagggaa ccactcagca aggagaccct 120
cttggccctg cccccaccat gcacccagca gccgggagtg cagcgggcag cctggcagtg 180
agtgaaaccc aggcctccag ccctccaaag cctggggcca ccccctgtag caggcgatgc 240
tagaataagg aggagagcca gagctgaggc tccttgcccc ttggcccctc caggggccat 300

gggatctctg tctcccacac ccctgtcacg gcccgcctgg agcagcccag aggccgaaga 360
ggttcttact gcagcctccg ggaggtgtct agggaggcca tagattgcct ggtctcgccg 420
cattcaaaat gaggcttatg atcagtactt ttttcagccc cacattcctc tccagaatgg 480
cctctgccct acagcacctg gcccatgtgg caccccatgg gcctgtcctc tgctgttgtg 540
aggtcgacct nacgacccag cacaggagct ggaagccaag tgcacgcgan gctcttcaca 600
gcccaagaag gcagcctgtc accctgctct ccgaccaagg gccaangtgt gggggggcaca 660
agccatnctc atcctgncag gccccgcttt cagaatgggg tggtgccaat gctccactna 720
aaccct 726

<210> 2796
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 2796
gnnnttanga tcagctcttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ccgccgccgc caccaccacc accactgcag caacaacagc agcagcagca gcagcgcctg 120
catagctcca ctctgacctg tgaaggaatg gggatgaggc caggagctag tgtctaccac 180
ggccacacag ggagcagtgt gggcccttag cccccaaggg gcctgctatg catgtggctt 240
ttttttttt aaacacagta aactagatta gtcgtcagtg ttttaattgc ccctcttctc 300
ctctcctgca ttcctctcct ctcttctttc ctctctgtcc cttctctttc ccctctcaac 360
caggagacca tcatgtctct ctgccttcct cctctccccc ccaggggagt caggctgtct 420
gtgaaagcca tgagcttctc tccctctccc actcctcctc tcctactttc agatggattt 480
attccttttt ttaaacaatg aacatcggaa atgagactgt ggggtgtggt nctctctctc 540
ttttttttta attttctttg ttgggttttt gagcaacctc atgtcccttc cagggagctt 600
ttaattacct cttanaactc aagtggatgg gaagtagagc actatgtgtc aatatgcttt 660
ggtttctgac acgattacnc agcgaggctt taatgccatt gggtaggtga gcttctgcct 720
t 721

<210> 2797
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2797
ggggttttaa tgcttggcta ctngnnctct atgnagganc ccatcgtttc gctntcggtg 60
gccttnctgt ggaagtgaca tgctcatttt ngccttattn gtgnacnngg ggangnncta 120
aanttggcct gtntncangg gttaaggtca cactgnncta attngcaatg ggaacaccat 180
gtactnagtt ggntncnncc gtttntagga aagctttcnt tatgcaaggg ataacatcna 240
atagggcact tatcccaaat gaatgcagca atttaaacca nngatgttta cgcatggcaa 300
gaacacngtt aggcaggant ntggggtcaa ctangctgat gtctttgaac acccatgagc 360
tcactggaan gtntgnatat cnggtggccg atgggctnng ggngtntnnt gnttgctcat 420
angcgnaatt taaangnnga gttatgtggg nganaatatg tatgtttgca attacacatg 480
gaatgtaaac caaagataca nttctnagcn ccctaaccnc taantggatn ccctcntntc 540
anncaanggg nntntccacn gggaacctga aacactagtt naggctgtga tggacatgag 600
tgggtggaca tgcctncatg gnaaggaatt nntacncnac tnaccttcat gaacattcna 660

ncngagacct ttaagggtna ncaaganatg acttttgngt nnggaatatg aaggtggaat 720
tgacacanag gcccttgaaa tggnaatgna 750

<210> 2798
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2798
tcnccctntt ttgccgctct tgttctttnt gcaggatccc tcgattcgaa ttcggcacga 60
ggaacaaaca aaaaatgcac agttcataat aatttctctt cgaaataata tgtttgagat 120
ttcggataga cttattggaa tttacaagac atacaacata acaaaaagtg ttgctgtaaa 180
tccaaaagaa attgcatcta agggactttn ntanatgctn cttgcaaaac tactacnctc 240
atatggcatg atccattnac antaccgtnn cnatatctgn cntctngctg naccnntncn 300
nnatctncnn tnctcacnnc nntnaccnct gnannacgtg acgnagcnct cnctnagatc 360
antganactg antatntntc angatcatnt cacaattcnn nctctntngn acnncactgt 420
angncnatca atctgcctta cnannccaca ncngantgnn cannentgng agaccncenc 480
tttnnnangc caatgcnnnn ggatcacctt agnccntngt cctgccgncc ctgtnctcnn 540
tnnngaaacc nnntcnttac tcccaatang nnnnatgcct ncnnntntnc tnancncgcc 600
cntttaantn ccancnttcn ttggcnaggc cccanacact ggnnnnantnn acttnntncc 660
cccaanttng nggannggct nnnannnnaa nccnnnattt gnncncaacn tnnnnccnnn 720
ccngngcntn aatnccatnt nnnannnaan nnnaanaacc n 761

<210> 2799
<211> 698
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

<400> 2799
gnntnnnnnn ttnnnncacg ctcttgttct ttttgcagga tccctcgatt cgaattcggc 60
acgaggcaca agccactgtg cccggccaat actgcanaat attttaaaaa gttaaaatta 120
tctcttctgg ctggtcatag tggctcacac ttttaatccc agcacactgg gaagctcagt 180
cagaaggatt ccttgaggcc aggagttcaa gatcagtctg ggcaacacag accccatatc 240
tccaaaaaaa taaaaataaa taaataaaac agttatcagg ctgggagtgg tggctcatgc 300
ctgtaatccc accactttgg gaggctgagg caggcagatc atgaggtcaa gagatcaaga 360
ccagcctggc caatgcggtg aaacttttgt ctctactaaa aattcaaaan ntaaaattag 420
ccaggtgagt tggcgggcgc ctgtaatccc agcccgcttg ggaggctgag gcaggagaat 480
tgcttgaatc tgggaggcga agttgcagtg agttgagttc ttggccactg cactccaacc 540
tgggtgacaa gagcaaactc atctatnaaa annaagacac tnagcttnat agttntgaga 600
tatctttagc atgttntatt tccaatgtta gaaaattatc tttgntattg tcattttgtg 660
gtgatactna gctctttgct ctgatactat aatgngct 698

<210> 2800
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 2800
gtntangncn gcactncttg ntttgtgcnn gatgcncgat ntnngaattc ggcacgagac 60
ctcttcttca ttgttaaaat ggaaataata atactaccta gctcgtggga ttgttgtgag 120
acaacaacaa atgagacaac agagatctga aactctgcct ggcccctggt atataccaag 180
tccacagtta aattagcctt tgttactaaa tcattgtttg ggtagaaatc ctcagatttt 240
ggatttctca agtgctcctt ttctactgtc caaaaggcag aatgttattt ttgctcgatt 300
ccattatgta atatcctatg aatttgaaat ttcggaggag gcacagcatg gggctgtgga 360
aatggtgcag gtatctgcat ccgaaactcc gaagttgtgt ggggaggtcc tctctcctga 420
gcccagaggc aaaaagctgc tcccaagaaa tgatctttat gccccacagt ccaaagcccc 480
acattaaaca aagtctcaag acaagaaggc aatgtgaccc tggcccccat gttttgtttt 540
gacttttaat ttcaaaataa tatcattgtg gggggggctta tagtttttaa cagctgaaag 600
ttatatagac agaaaaaatg ctcaatgagt agaaaangga aaaaccttac ttttaagaaa 660
acgtgattaa tcaaagagat attatgcttg acctcaggcc atcactttga actctgncac 720
tggntgnaaa atggcttncc a 741

<210> 2801
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2801
gggnntntan tatcagctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gagcctctga tcatcaagac atggcagaat aaaaagacaa gtcacaggct agctgaagat 120
atttgcaata cataaatcca gcaaagactt atatccagag tatataaaga agttctgtaa 180
atcagtgaga aaaaagacaa acccccccaat taagaatagt caaaagattt gaacaggcac 240
ttcacaaaag gggggtattg aaatggccaa taaacacata atcattactt atcacagaaa 300
agcaaattaa aaacagaaag agataccaca acctcctccc cagaatgtct atatggaaac 360
aaatgtcaat accagggttt gaccaaaacc aactggaact ttcacacatt tttgctaaag 420
tgtaaactgg tacaacctct tcagaaaact gtttgacaag atttttgttt ttgtttttat 480
acagttaaac acttaactta tgactaagca ttctgctcct aggtatttac ccaagagaaa 540
tgaaaatgta tccaaacaaa gacttgtaca agaatgtcac agcagcttta ctcaaaatcc 600
tacaaactag aaagacccag gtgtccacca ataggagaag ggaggaaaaa actaaaacca 660
ctttggtgna atctctgcca gtaaggaatg aattactcgt gcgtgtacaa tatggatgtg 720
tcaaaacaaa 730

<210> 2802
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 2802

gtaatagcag ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgagggcag 60
aagagcagac atggcagatg cttttctatc ttggtgttga tgctttacgc aagagttttg 120
agatgaccgt ggaaaaagta cagggtatta gcagattgga acaactttgt gaggaatttt 180
cagaagagga acgagtaaga gaactcaagc aagaaaagaa acgccaaaaa cggaagaata 240
gacgaaaaaa taagtgtgtg tgtgatattc ctactccctt acaaacagca gatgaaaagg 300
aagtaagcca agagaaggaa acagacttca tagaaaatag cagctgcaaa gcctgtggca 360
gcactgaaga tggtaatact tgtgtagaag taattgttac caatgaaaat acatcatgta 420
cctgtcctag cagtggcaat cttttggggt cccctaaaat aaagaaaggc ttatctccac 480
actgtaatgg tagtgattgt ggatattcat ctagcatgga agggagtgaa acaggttctc 540
gggagggttc ggatgttgcc tgcactgaan gcatttgtaa tcatgatgaa caccgtgatg 600
actcttgngt tcatcactgt gaagaccaag angatgatgg tgatagttgt gttgaatgtt 660
nggccaatct gaagagaacg acccanaana aaaaannnnn nnnnnnnnnn nnnnnnnnna 720
aaaaaacctc cc 732

<210> 2803
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 2803
ggntcnaatg ctggctcttg tgcntnatgc aggatcccat cgattcgacg gagttgagtt 60
gctaactttt gtccttttcc tcagtttcca gatgagttta ncagtaaagn atgcttttcc 120
caggcncaaa ttgggaatgg aaatcaccta gntccgttcc ctctgacagc tgtaatccan 180
agagctnagc tgnttacttc attagctngg tataagctga cgacagcagt gcccttgctt 240
tatntttgac agagctagga aanaagcctt ctttgttnct gctgtaatca tagttaccct 300
tganctgaaa tatcttacat tnattctcaa gcaggtaggg agagganaaa agacattgcg 360
aaaatnacac ctgaatgcct ggagcatgga agacattctg tccctagcct tttccctntg 420
antttgganc ctgngcccac tatgcccaaa gactgagctt tctaaancat ntatngattn 480
atgttattnc nctccctana aggctttcag aggatctcca tggccntacg aagaacttca 540
gatccttanc atgctacaga actcancatg atcaggnctc cttatttctc taattgattt 600
aaccacngat nctatgtgtc cttacattca gactcaataa nntncttaaa nttttcctgn 660
anaccaanna gatnctataa aggctngagc cctttaaaac tanangnggt cgaattccgn 720
agnaccagaa nn 732

<210> 2804
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2804
gaaannagct cttgtctttt gcaggatccc tcgattcgaa ttcggcacga ggcagccaat 60
tgggaagagt gacttctgtg agatggctgg ctggtgatag gactaagttc tcattgttca 120
aatagagctg ttcaacatca ctgaaacctt taagaaaagc cctgagatca gttattccta 180
caagtttaag tagtagacag atactatcca gctctaagtc tcaactgctc ttttatactg 240
tacttttttt ttgagacgga gttttgctct tgtagcccag gctggagtgc aatggcagga 300
tctcagatca ctgcaacctc tgcctcctgg gttcaagcga ttttcctgct tcatcttccc 360

aggtagctgg gattacaggc atgtgccaca acgcctggct aattttgtat ttttagtaga 420
gactggtttc tccatgttgg tcaggctggt ctcaaactcc cgacctcagg tgatccgccg 480
cctcggcctc ctaaagtgct gggattacag gcgtgagcca ctgcgcccag ctatactgna 540
tattttaaga agttccagca tgttgcatct ctgcatttat cctatatcat taaaagaaca 600
taagttatca tggtgttggg taaattagcg aaaatcaacc ctttctaagt ttaagggaaa 660
aagtattttt aaaaacaact taatnaaaac ttacactctt ttattacaag aatgtatttc 720
ccttaaatn 729

<210> 2805
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2805
gcatgtggct ctngnctttt gcggaccctc gattcgctgg aattagtggc ttgctgataa 60
tctcatttta taatttgttc agcaatccag cangaccaac tttttaaaaa aattaataac 120
agtagtttta tgaaaactaa gtaagaaaac agtttccacc tatttctgag gtctccttta 180
gaaggagtaa cagacagctt ttatttctct taaagttata aaaatcacaa tcgcaagtca 240
caatgaatac tgggaaggga aattactttt gcagagtgat caagtaaatg atagcggggg 300
ctaaactttt ttagtaaact tgtgaagatt acatacagta aagtgcataa atcttgagtg 360
tcaattcaat gaatttttat aagtaaacac actttgagag caagcatcct aagactccac 420
ttcctccaga attagctgat gttcaggcat aaggttgttt acaggtgaat tcatgacacc 480
tttgactctt ctactgnctc agaccttagg taacatacct gcagctgctt ttctaacaaa 540
ctgttgatca gcaaaaataa aggggctaca gaaacactca ttttatgctg gtcctctttg 600
ggcttcatgc caagacaatt ctgnggtaaa tgtncagttg actctgattt ggnaatatga 660
aaatcaagtc catccttggt attaaaaaat tttttacaat tgnaattatt attgatggtc 720
atattgggn 729

<210> 2806
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2806
gcaaagnggc tcttgttctt tntgcaggat cccatcgatt cgncggcggc tctggctgcc 60
cggcggtnga gagcatggac tctccagggg cangtnnggc gcctccggag ttaccggagc 120
ggaactgcgg gtaccgcgaa gtctnntact gggatcagcg ctaccaangc tcagccgatt 180
ctgcccccta cgattggttc ggggactant cctccttccg tgccctncta gagccggagc 240
tgcggtccga ggaccgtatc cttgtgctan gatgnnggaa cagtgccctg agctacganc 300
tgntcctnng angctnccct aatgtnacca gtgtggacta ctcatnantn ntngnggctg 360
ncatgcaggc tnnctatgcc catgtgccgc agctgctctg ggagaccatg gatgtgcgga 420
anctggactt cccaatgctt cttttgatgt ggtnctcgan aanggcncgc tggatgccct 480
gatggctggn gaacgagatc cctggaccgt gaactntgaa ggngtacaca ctgtggacca 540
aangttgagt gangtgagcc gtgngnttgt cccatgcagg ncnnnntatn ncantgacta 600
catgctggcc ctcgctttat gggccnaacc tntgcccaag nntattatgg ataggaccct 660
gaagcatgct acctattggn aatgggtttc acnttccatt gngnacctca tgctncaaag 720

gccggtaaag cttnaaacn 739

<210> 2807
<211> 728
<212> DNA
<213> Homo sapiens

<400> 2807
gaaagcagct cttgttcttt ctgcaggatc ccatcgattc gcaaaaagtt aaaattttat 60
ttttctctca tgtaacattt tggataattt gatgattccc taatgttggg acccagtctt 120
ttctgtctta ggctcacaac tatccttgag cctgtgtcat gggggatgac tctgaagctg 180
cgtgcaccct gttcattcac attttcttgg cctgaactta gtcactaggc tattcctaac 240
tgcaagagaa gctggaagat gtagtcttcc ttctgaccag ccatgtgctc aaccacaaat 300
tgagtttcag ttattggagg gcagaaagaa tagatatggg gctgctttgt aggctgctgc 360
tcggggcagc ctctgctgtg ttatttgaga tttataattt tccttggctt cccagatgac 420
agtggaaaaa ggcatagtca agacttcaag tgcggaaaat gttggcaact ctgacatgca 480
agttcttttc catatagagc tgagttatgc tggagtattt tggttacaaa gacttcattt 540
tctcacctgt ctgaattcct gtttggattt tagttactct tgatttatca gcatggatta 600
aaaattgaaa agacttggta ttttaaaatt atatctgaaa tggcagagac agcatctgag 660
gattcctctt gctactataa ggaatgagta attagtttga tttttcttta aatccaaata 720
aataagat 728

<210> 2808
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2808
gnaaancagc tcttgttctt tntgcaggat ccctcgattc gaatcggcac gagacanagc 60
atatgtacca acaatgcatg tttatattct gtgccatgcc aggggcaaat tcatagttgg 120
cctgtttcca taagtgtggg gatggaacct tgaaacacag gacatctcat aatgctgtaa 180
gcagggacca ttgaaattga ttcctagagt cttgttctac aacttcttta aaaattactg 240
atttgacagc agtatgtatt caacatttaa gactttctgn ctaattttga gcatacattc 300
ttgactaang ctagcaatta gagattcttt ctttaattta tcagatatct attaattgtc 360
tacttttgag tgggctctgt gcaaggcgct aaaaagccag ttactggggt tctgttcctt 420
aaggatcctg anaattgagt tgctaagaat taaatcagca ggcgtgcaat atgactgtca 480
aagcttgacc cctgcttnga ttccctttgt tganacaggt tcttatagga cctggattct 540
caccacatcc tctggtctgt ttaagggaac acaaagggta agctcaactc tgtgtccagg 600
agtaccttat agtccctttc ccttaactgn gtcnggttca acttgatcca agatcaggga 660
ttagtacaag ctttgtaaaa aaaaaaaagg tttatttttt accaaaaata ganccagatg 720
ccctttggaa ggtaaaagn 739

<210> 2809
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 2809
gcnatgcttg gctacttgtt ctttctgcag gatcccatcg attcgaattc ggcacgagga 60
gagacagtga gagagacaca ccatggggcc tgatatggag gcacttacgt ccaccaatgc 120
tgtaacattt gcattcgtta acacccttc attaatttat taaatcattc tccagtgtaa 180
cttctgtaga attcccagtt tttgctttta tgaaattctg tagttgatga acctcagatt 240
ttacaagtaa ttgaacttaa ctacaggaga aggaggagaa gaaggtggag ggaaaggaca 300
agaaaaaaaa gcaagatata actttttttg gttcccctct tttaatattt tttctaaaat 360
tcatactaat aaatacaatc atttaaaaat gcaggtatct aaaattacat ataaactggt 420
ccttcgagta agtcagagaa tgctatttgc tcattgttaa ctgtattttt agtatcttcc 480
aaacaaaatt ctctttatca aaattatcat ttgcagcttt tctaggtagt ttccaaagtg 540
gatgcacgct tatggttgga aaggatcctt cttgacaaag ctttcacact cagaaactac 600
tatcaaatgc agtcaagcac aggaagaaag aatacactga tgacccgagt atgctgaaat 660
aaaagaaaca taaggngctg ctgtctgaat tcacactgga gtttctttca ctggtgtcaa 720
gtggtggtaa cctatc 736

<210> 2810
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 2810
ggatctagct ctgntctttt tgcaggatcc catcgattcg aattcggcac gagcattagt 60
atttttgtga tttcattttt tacacttaaa tattgattca tgtggaattc actttgatgc 120
agggtgcagt agggctccag tttaattttt ttttagattg ctactcagtt gtttcagtac 180
tgcttagtga ataagccatc tttattatct tgagatgtca cttttattat gtactgaatt 240
tctctgttta tgttgggtct ttagctgtac tatgtggtct cttccattga tttgtctttt 300
actgggctgt gtcatactgt ttttaattat tgtagtgtta tattttagta tttggtgagg 360
ctagaccctc ttcaattaac ttttgcttta ttttttccaa aggaaattta ggagccggac 420
acatatgtgt gttcatgtat tttcattggg aatgcattaa atatatagat taatttaagg 480
gatcattggc acttttgtga tgttgagtat gtctgttcag gaacatggta tngcttttcc 540
atttattcaa gtctttcaag tatttttgg gagcatttta aagttggctt catatagatt 600
tgnatattnn ctttctgnga aaccaataga ctncaaaagc tttantggct tatggcaacc 660
aaanggttaa tttctcattc accgttacat gccacctgta ggtcaatggc agccctgctt 720
atggttcgat gn 732

<210> 2811
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 2811
gtaanntnnn aatancangc ttgttcttta tgcaggatcc catcgattcg aattcggcac 60
gagatccaat atttattgag tgtctattag gtgccaagca ccttaatagg tcctatggat 120
ttgaaatgcc gtccctgtct tagatctcac ggtctactgg aggacacaga gaagtaagca 180
ggcagttgca gtacaatgta acactgagtg ctgtctgtgt atgatgctga ggagggaggt 240
tagcctgagc cggggaagcg gagcttgcaa tgatcggaga tcgcgccact gcactctagc 300

ctgggcaaca gaacaagccc ctgtcttaaa aacaaaacaa aatcttcaga gcaggcttaa 360
aaaaaaatct ccctagggga ataacaatta cctgccttct gtaatcatgc atgtattgtt 420
acaatgaatg ttacaaagtt ggttacgtga tgttcatgtt tttaaactga gttattgtca 480
ttttcactca gattctgcca cagtaattct gaaagggttt aattgaaaat attttctttc 540
tcagtttact cgtttactca ttcattcata taaaaaaatt gcttaaaatg tcaatcatcg 600
gctagacccc atacccaaag ccaataactg gcctcaagaa tttacaatct agtgaggaag 660
acatgtttag acaggcatta aaaaacccaa cctagcacca agctatgtag aactcagaga 720
accattnatt gaagt 735

<210> 2812
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2812
aaacaagcag cnccctgtaa ancctcnnt gcnggaccca tcgttcgaat tcggcacgag 60
gacatacgag aagaaattaa atgtgacttt ttatttaaag caaaacaccg aattgctcat 120
aaaccgcatt ccaaaccaaa aacttcagat atttttgaag cagatattgc aaatgatgtg 180
aaatccaagg atttgctagc tgataaagaa ctgtgggcnc gacttgaaga actagagaga 240
caggaagaat tgctgggtga acttgatagt aagcctgata ctgngattgc aaatggagaa 300
gatacgacat cttctgaaga ggaaaaggaa gatcgtaaca caaatgtgaa tgcgatgcat 360
caagtaacag actctcatac tccttgncat aaggatggtg caggtcagaa ccattcaatg 420
gncaagtgaa tagtcagntg aacnggtcag tgaatgggtc caggtcttac ccagtgatga 480
tgatgatgat gatgatgacg acgacgacga ccacattgac gacgatgatg gngatacgcc 540
atgangcttt aagggttgga gaaaattcta ttcccacaat ttattttcac atactggtga 600
ccctaanagg gncccaaata aaaccgggaa gaatcccnct ttnaaaaatc cctggnaagg 660
aaggaagaaa gccnaaccgt aancnaaaga acaanccctg gcaangggca cttntggccn 720
agaactggcc gaccaatnan gncg 744

<210> 2813
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2813
ggnntnnaag ancagctctt gttctttttg caggatccct cgattcgaat tcggcacgag 60
acgaaatagt gacatgcact tattagatnt ggaatctatg ggcaaaagtt cagatggaaa 120
gtcgtatgtg tattacgggg agctggaatc caaaatcccc acattttcaa gttgtaaatg 180
aagaaactcc taaagataaa gtcctgttta tgaccacagc tgtagatttg gtaataacag 240
aagtncanga gcctgtncga tttctcctgg agacaaaagt ncgcgtntgc tcacctaatg 300
aaagattatt ctggcccttc agcaaacgta ntnctactga aaattncttt ttgaaactaa 360
aacagataaa gcaaagggag agaaagaata atactgacac tttatatgaa gttgtntgct 420
tggaaagtga atcagaaaga gagaggagga aaactacagc cagtccttca gttcgcctgc 480
cacagtctgg atcgcaaagt tcagtgatac cttctcctnc agaagatgat gaagaggann 540
ataatgatga acctctnctg agtggatctg gtgatgtatc caaagaatgt gcanaaaaaa 600
ttctttgaaa catggggaga actgttgtca aaatggcatc ttcaacttgg aatgtgaaga 660

cccgaancan gttggcattc cttagtnagg aaaccgtgtn ccttgaagct cttcnangga 720
gaagtctngc cacctgcttn ccangg 746

<210> 2814
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2814
ggnnttnaaa tncagctact tgttcttttt gcaggatccc atcgattcgg gagaccaggt 60
gggagccact cacagaaatc agtaacatga aaaccacagc cacaaaacca ccactgtcac 120
tcaacgccca tcatcacggg caggacagtt ctacatcatc tccctccggc ctgaggcttc 180
ccaggcagtg tgggaagggg ggctgcatct cctggctggg gttcacacct aagtttcctg 240
aggtccaagc tgacctggaa agtttctagt gagtggcaca tcctgtccca acaaggggaa 300
cacgggcagg atgtgcctgc accctgggaa aagtgttgtc tccgcacacg gggaagaagt 360
tgtctggggg acagaggagt tccaggtagc aaacacaggc tacagggcaa gggttggaag 420
aggctggcag ctggatgtga gacagccagg tgggaagggg tccccaggcc cctccagccg 480
gcctgtgcac tgggaggggt gcacactggg gtggagccca cagaggtttg tgccatttgc 540
ggcggggaga acctgccctc ctcttcctgg gtggaattca atctgtgagg cangaagccc 600
atggcaggaa acacactatc ttgctttgct ganggtctct atttcccttt ttttttcctt 660
tttgcccaat aaatcccttt ttctacttct tcaaaaaana annnnnaaaa aaacttgagc 720
ctntaaaat 729

<210> 2815
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 2815
caagctcttg ttctttttgc aggatcccat cgattcgctc tcactagccc tgggcacttc 60
ccactgcctt tgtggacttc tgtttgctct tctgtagaat gggataacag tgccagtcct 120
gcttactatt tagggttatg tgatgcttgc agatgtacag ggaaagcacc gctgatggga 180
gctgctgaag tttctagggg aggtgaaggt ggcgcctcct cccctggtct aagtggtaga 240
tggtgcaggg agaggagaat ttcattctgt ggcagcagct gatagattcc aggtctttaa 300
tactacctgg gaaaccttaa caaagcagtc agtcaccaaa actgacctag cttctgagca 360
ttgctaacca tgcttttaga gaaacaggag aattgcttga acccaggagg tggaggttgc 420
agtaagccaa gatcacacca ctgcactcca acctggacaa cagagcgaga ctccatctca 480
aaaaaaaaaa attgtgttgc ctcatacgaa atgtatttgg ttttgttgga gagtgtcaga 540
ctgatctgga agtgaaacac agtttatgta cagggaaaag gattttatta tccttangaa 600
tgtcatccaa gacntanagc ttgaatgtga cgttatttaa aaacaacaac caagaaggca 660
gaccnggata tactngaaaa aggatgcttt ttttttttta ctccctctaa c 711

<210> 2816
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2816
gnnntnttaa tacntnaggc tcttgttctt tttgcaggat cccatcgatt cgctctagca 60
tgtgccataa attacagtga cctttaaaat ctcgcttggt cactgctgaa tgggtgagaa 120
taggcttggt tccagttttt aaggtcacac tgtcctaatt tgcaatgcat cacaccatgt 180
actaagttgg taacaaccgc ttagaggaaa gctttcgtta tgcaagggag aacatcaaaa 240
agggcactta tcccaaatga atgcagcaat ttaaaccaaa gatgtttacg cagggcaaga 300
acaaagtaag gcaggagttt ggggtcaact aggctgatgt ctttgaacac ccatgagctc 360
actggaaggt ctgaatatct ggtggccgat gggctcgggg tgtctcgtca ttgcttagaa 420
gcgaaaatta aatgctgagt tatgtgggtg aaaatatgta tgtttgcaat tacacatgga 480
atgtaaacca aagatacaat tctaagcccc ctaaccacta aatggatccc tnctctcagc 540
caagggcatt ccaaagttaa cctgaaacac tagttcangc tgtgatggaa atgagtgggt 600
gggacatgcc ttcatggaag gaattcagac acaactgaac agcatgaaca ttcaaacngg 660
agaccttaag tctacaaaac cagactcttt gtagccatta agatgcttga tatgacagaa 720
aggccctgaa agcaatana 739

<210> 2817
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2817
gtnnttttta tatccctttc nanttgctct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagagta aattcagtgt ttctgttgcc gaagagtgtt tattggttct ttcactttca 120
tttcataggg ccctttcttc tactggcatt ctcactttga attactaaga agtttcttct 180
aatatccctc tatctccttt ttctttctag ttttagataa agctgtcaaa agaacagtta 240
tcatagaaat agaaacattt aaattaccgg cacgatagct tatttcttgc tgcaaccatt 300
cagaatatct atttgtcact gccttgggtg ctttgaagtg aaactgtgct tagatataaa 360
aagtttaaaa ctcactttga ttacatgtta agctcacagt ttttacactg cagttcctga 420
atttagttcc atcaaaactg tatgactagg ccacatgtga tggctcatgc ctgtaatccc 480
agcactttgg gaggccaagg cgggcggatc acctgaggtc aggagtttga gaccagcctg 540
gccaacatgg tgaaaccctg tctctactaa aaatagaaaa attagctgga tgtggtggtg 600
cgtgcatgta gtcccagctc ttgggangcc cagcaggaga atcacttgaa cccgaaangt 660
ggangctgca ntgagccaag aatgcgccac ggnactntac ctgggtgact ncatctcaaa 720
aaaaaaaaaa 730

<210> 2818
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2818

ggntttnatc agctcttgtt ctttntgcgg atccctcgat tcgaattcgg cacgaggcct 60
tttgtggggt ctcatacata actcagtttc cacaaagctg tgccccagct cagccctatg 120
gatagaagca tggtctgggg ttcctttgct gaccagggtg tgtgctttgt ccaagttact 180
gaccttccca aacctcatca atgcacataa aaagagcact tgcaaacaat gaatctagac 240
atggaccttc acaaagaaat aactcaaaat ggatcccagg cctaaatgaa aaatgaaaaa 300
ctataaaact cctagaagat aacataaaag aagatctaga tgacctaggg tttggcaatg 360
acttttaga tccagcacca aaggcaggat ccaggaaaga aataattgat aagctggact 420
tcattaaaac gaaaacttct gctctgtgaa agatgctgcc aaaaaatgaa aagacaagcc 480
acagactggg agaaaatatt tttgatggaa atatctgaga agagaggctt ggtatccaaa 540
atatacaaag aatttctaaa actcaataat ttgaaaataa acaacccaat ttaaaaagtg 600
ggccaaagat cttaaatgac gcctcaccaa agaagatncn cagatggcaa ataagcatat 660
gaaaagatgc tnccggctgg cacngtggnt acgcccgtaa tcccacactt tgggatgcca 720
aggcagn 727

<210> 2819
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2819
gtnnnnnnnn nnnaatgctt ggnnnnntcc ngacccntct ttcgaattcg gcacgaggtg 60
agatacctgc ccctactttg ccttcttcca tgattggaag cttcctgagg ccaccccaga 120
gtcagaagcc gctatgcttc ctggacagct tgcagaacca gtattcactg actgctgaaa 180
ctagagcatc actgagaagc aagagataga ctgacctaac tagagggaga gctgccatcc 240
aggatgatgc caccatcaca ggaggtgaga aggaacacag catcttctgc aaatgctaca 300
gtaaataggg acggggtgca gcaatgtgag gaaagtggaa tgaacttgga ctttgaaggc 360
aaactaacct ggaatcaaat actggctctg ctgtttgcaa gtgtgatctt tgggtatgct 420
tcctaatctg tgagcttcaa cttcctcctc tgtaaaccaa gatcaaagac aaacagggaa 480
acctacttgt ctggtgccca tccccttggc agaacactcc tctgaaggat gacagtttgg 540
ctgtgccagg gcaganctgn cgacaccaaa tgagccttca tagcaactat ctgatgagga 600
actcactggc ctacctttcc ttgacagctn gggcctgcca ccttgaagca tgacttcaca 660
acgnccctac ccaanggcat ggangttgct gctgatgagc aactggttat atttaatcca 720
ggttctgctn 730

<210> 2820
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2820
ggntttnatc agctcttgtt ctttntgcgg atccctcgat tcgaattcgg cacgaggcct 60
tttgtggggt ctcatacata actcagtttc cacaaagctg tgccccagct cagccctatg 120
gatagaagca tggtctgggg ttcctttgct gaccagggtg tgtgctttgt ccaagttact 180
gaccttccca aacctcatca atgcacataa aaagagcact tgcaaacaat gaatctagac 240
atggaccttc acaaagaaat aactcaaaat ggatcccagg cctaaatgaa aaatgaaaaa 300
ctataaaact cctagaagat aacataaaag aagatctaga tgacctaggg tttggcaatg 360

actttttaga tccagcacca aaggcaggat ccaggaaaga aataattgat aagctggact 420
tcattaaaac gaaaacttct gctctgtgaa agatgctgcc aaaaaatgaa aagacaagcc 480
acagactggg agaaaatatt tttgatggaa atatctgaga agagaggctt ggtatccaaa 540
atatacaaag aatttctaaa actcaataat ttgaaaataa acaacccaat ttaaaaagtg 600
ggccaaagat cttaaatgac gcctcaccaa agaagatncn cagatggcaa ataagcatat 660
gaaaagatgc tnccggctgg cacngtggnt acgcccgtaa tcccacactt tgggatgcca 720
aggcagn 727

<210> 2821
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 2821
gnannnncta atgctcggct ngttcttttt gcaggatccc tcgattcgaa aaagttgagt 60
atttatatgt gccagtgtgt atcatgctga atactttatc tggatggtgt tatattatcc 120
ctcctataga ctattgagtt gagtactgtt attagatcca ttttacaaat gaggaaacta 180
tggagagatt aagtaatttg cccaagatcc cataataaga aggcaagtgt cgaatgccag 240
gcattctaac ttcagagtcc atagtcttaa cccttgtgct attctcttcc acaaatacac 300
ccagcaggta aaagactgag aaaaataaat atcaaaaagt acctttttgaa attgactaca 360
tgaagttacg aaaacctgag ttgttttgtg aaagcggtga gtacaaagca gtattttgga 420
gagggttgtg cagggaatcg gagatgaagc tgtgtgctga aaaggagaga agaaattaga 480
ggaagggaat ggtggcctta cagagaaaca gacttgaagt gatgtgaagt gtttgcgctg 540
ggtgaatgct ggcaggaata agtgagcagg gagcgagtga acaggataag agagatcact 600
tcggagtaaa gccttgaaaa gggagtgtag gaggaagttt ttctcccttt nctgcatcct 660
tcctttgngc gtaaaatага aatgtcttcc ttctgaagga ttcaaagaga atgttggctt 720
ttctttcatt ctc 733

<210> 2822
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2822
cgcattttta atncagctct tgttctttnt gcaggatccc atcgattcga attcggcacg 60
aggttgtagg cctccttcat ctgttcattg gctgtggcat taggccagct actctttgca 120
cttctgtnaa gtgagacggt cgatcttgtc tgcctctcta gaggatggct gcaggtgtca 180
aatggggtag ttaggtggga nggcatttca caaagttaaa aaatatgact ttggaggctt 240
gttatattga tgaggattat aatccctgag aattcctggt atgaaaaagg gaaaagaaga 300
taatttgtga aagaaataag tgtccagtta ctagtctttg aaaagggtca gtctgtagct 360
cttcttaatg agaataggca gctttcagtt gctcagggtc agatttcctt agtggtgtat 420
ctaatcacag gaaanattgt ggttccctcc agtctctttc tgggggaatn gagcccactt 480
ctcatttcat ttaattagat gaaatagaac tcaaagtaca atttactgtt gtttnacaat 540
gccacaaaga catggttggg agctatnctt tgatntgtgt aaaatgctgc tttgtgtgct 600
cataatggtt ccaaaaattg ggtgctngct aaagagaaga tactgttaca gaagccaccn 660
ngaagacctc tgttcattca caccccccgg ggtatcagga attggcttcn agnggtgtgc 720

caaatccngt ttgcctatn 739

<210> 2823
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 2823
ggttnaatag nagctcttgt tctttntgca ggatcccatc gattcgaatt cggcacgagg 60
atgtcctgct atacaccatc cactgccctg ccccttaagc ctcacatctt tcatctctcc 120
tagttccaac ccatggtctc cagacgatga ctctgcctcc ctgttctggt agcattcaca 180
gattgccttg tttagtagcc tttcacatga gatccacttg acagcccctg tcctcacccc 240
tcctcaaact cctcaccaca ctgaaactct tccagctcca tgagtaggtt cttgggtggt 300
ttcttcacct gcaggttcag gtcaatgctc agccggggac tcgacaggga tgctttgcag 360
gtctctggag tgctctttgt gcagtccctc ctctgtggta ctctgccctt gaactctcac 420
tgccttggcc tccccaaagt ctaaactttg tctcctcaac tcagaaagtc ctctgggctc 480
tgtctgggct ccccttccct gtatgtggaa ttaaatctct ctgcangcag gaagttgggg 540
caatcctagg gctcactttg ttatcttccc atctctcagg gatcactgtc ctgatgtcta 600
ttgncctgga aaccgntgtt tcatttttt tctngnnntg gtttaaacat tatttttca 660
ngtgggangg taaatcagct ttgntactnc atcttggctg gaaattcata accnaaggtt 720
aactgtttta 730

<210> 2824
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2824
ggtttatatg nngctcttgt tctttntgca ggatcccatc gattcgcgcc gccccactcg 60
ccccagccgc cgccatgaag gccgnggtgc agcgcgtcac ccgggccagc gtcacagttg 120
gaggagagca gattagngcc attggaaggg gcatatgtgt gttgctgggt atttccctgg 180
aggatacgca gaaggaactg gaacacatgg tccgaaagat tctaaacctg cgtgtatttg 240
angatgagag tgggaagcac tggtcgaaga gtgtgatgga caaacagtac gagattctgn 300
gtgtcagcca gtttaccctc cagtgtgtcc tgaagggaaa caagcctgat ttccacctag 360
caatgcccac ggagcangca gagggcttct acaacagctt cctggagcag ctgcgtaaaa 420
catacaggcc ggagcttatc aaagatggca agtttggggc ctacatgcat gtgcacattc 480
agaatgatgg gcctgtgacc atagagctgg aatcgccagc tcccggcact gctacctctg 540
acccaaagca gctgtcaaag ctcgaaaaac agcagcagag gaaagaaaag accagagcta 600
agggaccttc tgaatcaagc aagggaaaga aacacttccc gaaaaggaag accgcaatgc 660
cagcaacggg gctnaaggcg acgttgtnct tttgaacggg aaccgtaact naaganggaa 720
naattantnt gttattaat 739

<210> 2825
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2825
ggttctatag ctggctcttg ttctttntgc aggatccctc gattcgaatt cggcacgagc 60
ctgtgtccag cgtcctcggt tcaggggaaa tgttttggtg ttcatgagta gtatgtcccc 120
cagtgcccca ttgtgtgggc gtcctcatgg ggtatccatt cttctaggaa gatcctgggg 180
ctgtttccag ttcgaagcca ttattaataa agctgcaagg aagaaatatt tttatggatg 240
tgtgttttta tatctctgat aaatatattc aactggaatc attgggtgta ttgggccatt 300
ctcccattgc caaaaagaaa tacctggcca ggcgcagtgg ctcacacctg caatctcagc 360
acttgggtgg ctgangcagg tggttcacct gaggtcanga gttngagacc atcctgacca 420
acatggcaaa accccatctc tactaaaaat acnaaaattg gctgggccgt gggtgtcagg 480
tgcctgtaat cccagctact tggaagactg angcaggaga ctcgcttgaa cccaggaggt 540
ggangttgca ntgagccgag atagcaccat tgcactgcan cctgggcaac aagagccaaa 600
actcttgttt gaaaagaatt caaaaggaat accttgagcc tggtgagccc aagaatgnac 660
tactgnactt ccagcctggg gtgacaanag tgagactgtc tcaaaaaaaa aanaagggga 720
ttttttaaaa aaaagccctt ttgaacn 747

<210> 2826
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 2826
gggtttaaga tcagctcttg ttctttttgc aggatccctc gattcgactc aaagacacgt 60
acatgttgtc cagcaccgtc tcctccaaaa tcttgcgggc cattgcctta aaggaaggtt 120
ttcattttga ggaaacatta actggcttta agtggatggg aaacagagcc aaacagctaa 180
tagaccaggg gaaaactgtt ttatttgcat ttgaagaagc tattggatac atgtgctgcc 240
cttttgttct ggacaaagat ggagtcagtg ccgctgtcat aagtgcagag ttggctagct 300
tcctagcaac caagaatttg tctttgtctc agcaactaaa ggccatttat gtggagtatg 360
gctaccatat tactaaagct tcctatttta tctgccatga tcaagaaacc attaagaaat 420
tatttgaaaa cctcagaaac tacgatggaa aaaataatta tccaaaagct tgtggcaaat 480
ttgaaatttc tgccattagg gaccttacaa ctggctatga tgatagccaa cctgataaaa 540
aagctgtnct tcccactagt aaaagcagcc aaatgatcac cttcaccttt gctaatggan 600
gcgtngncac catgcgcacc antgggacag agcccaaaat caagtactat gcagagctct 660
gtgccccacc tggggaacag tgatcctgac agctgaagaa ggactggatg actggcantg 720
cttttgna 728

<210> 2827
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2827

gtnnnntttt gaanccttgc nnttnccttt atgcggatcc catcgattcg tgggttgact 60
cgctacatca gctcagactt ggctgtgggt ntncccttgt gaattgttgt ttccacatgt 120
gtgttgcttc atttttggct ctccgttgtc cccatcacct tcccgtctca ccatagggtt 180
tagggtattt tgctgtgtgt tcaaatagaa catgaaagaa gccttttaaa agtatttctg 240
tgcctattca cagtcccta aattttatta cagtttttac gttggtttaa agagtatttt 300
ggtttgattt atatggaaaa cttctttttt aacattatag taacatagat ttttaaaaaa 360
tgaaattcta ggaaacaaat attatagact agttagatgg caaggagaac aggagtttta 420
gaactaactt ttaatctcca taggtactag ttgtctggac tagctgagtc atttcatctc 480
agtaatactt ggtagtgctg tgaatagcag atcttgcatg cacagaacac agcccagtac 540
ctgcatgtga caggcacttt attttctggt aaagttaagt acagttgacc cttgaacaat 600
gtgggggtta ggggaaccaa ccttccacac agtaaaaaat ctggggtgaa cttttgactt 660
cccaaactta acttctaaca gcctactggt tactggaagc cttgctgatn acngaaacag 720
tcaattatc 729

<210> 2828
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 2828
ggtttttntgg nngggggttt tcaacncngg ctcttgttct ttttgcagga cccatcgatt 60
cgaattcggc acgagcatca gtatgcttat ggatttgatg acaggcatag cctgggcata 120
tcacctcatt ggtaaagggc tagagccttt ctttttttatg gcacttcttt ttttgagata 180
gggtcttact ctgtcaccct ggctagagta cactggtaca atcacggctc aatgtaggct 240
taacctcctg ggctcaggtg tatgtcacta tgcccggcta ctttttgtat tttttggtag 300
agacggcttc gccacgttgc ccaggctgca agcgatatgc ctaggctcaa gcgatctgcc 360
cacctcaact tccggaagtg ctgagattac aggtgtgagc cactgcaccc agcctttgct 420
ttatttttta ttttttgaga ggtatgattc tttctagaga ttttttctca tggctactat 480
tagatcagga atgggtgatt ggagattatt agattctagg ttaacttcta ccactttacc 540
ctaatacata aaacttttttc ctaaatnaat gatggaagga atnaannnna ncnnccncnt 600
nnccnctant acaaaancnc tagcccttan aacntttngn nagctnnntt nncctnnntn 660
tcccntnntc nnncccccnnc ctnnttntnc cnnnctnnct cnancccccac nanttncnnt 720
ntnnnctncn naatanattn cncncntnnc tcctcannnn ctnntcnnnn ctcnn 775

<210> 2829
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 2829
tcttttatnn gangttngga agcncaggag nctcnntcgt tcggacaaat cacttaagga 60
gaaagtagaa aaaaagctgt atttttcaaa gaggtattct aatcggcaag acaatgacca 120
accattacga ccaaccatta tgagaatata gcttagggac gtttgtgctc agctcctctt 180
ttacccaatg tcaatgcctg cctcagtgta ttttcttctg gaggagagtt ttgtggatgc 240
catctttccg ttacggaaaa ccantggagg aatgggcagt ttnttgccat gacccaccat 300
catttaaaca antggngttt gagttcagaa ataagctcat atatacttga attccatggg 360

ttaaataagc cattgagtta aagtggtang aaattaaagg tagaaaatag aagaataggg 420
tgggcttggt ggcttatgcc tctaattcca gcactttggg aggccaaggt ggaggatgac 480
ttgaggccag gagttcaaga ccancttggn caatatggtg aaaatncatc tttactgaaa 540
ataccaaaaa nattagatgg gcatngtggc ctgtgcctgt aatcccagct actacagaag 600
cttgatgccc cagtattctt tgaaccttgg angttgaagt tgcantgaac ccaagatgcc 660
cactgnactg ganctgggca atgaagtngn accctgnctc aaaagaaaan aatnttaaac 720
aactn 725

<210> 2830
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(841)
<223> n = A,T,C or G

<400> 2830
ctntngggcc cntagnnggg gctttcnata nggcgggctg gtngttctnt ccgnacgatc 60
ccnncgntgt cgcagngttt tgagcagagc aagtgacact atcagtactt aagcattaaa 120
agaattgtcc aatgaatggc tgtgctgaaa atatatnnga ggtaaagtaa gctagaggca 180
ggggtattga aatcaggcta agagatgttt gtggtttgaa ttaagtggta gcaggaggtg 240
ttaagaatta gtcacattgt gtatgtattt tgaaggtaca accaacagga tttccaggca 300
agatagagtg tgatgtgaaa aagaaagaaa ggagtcagta gtgactcang agtttgtctg 360
agcatccgaa gtgtggaatt tcatcacatc ctganaggtg aaagaggctg tangaggagc 420
aatatgtggg aaagatcaga agttcagttt nggacatgcc aaatattact tggccaaatg 480
gttngggtgg atgatngggc gatcntgagt catccctnat aaaatcggca tgcanatngc 540
ntttaaaaaa ctccagactg gntganatcc caagttgttc gattgnaann acngngnnct 600
cntttgnnan tgctccnccn tttaaagcca cttttgggga aacccnacca agggacantg 660
naccatnncn nnattcccct gggnnaaccc ccncnaaagt aaattanacg cnaggccntc 720
nntccanccn ntcaaaatnc tttnntctna cntccancac nctttttant caaaaatttn 780
nctctcccnt atannccnnn ctnggcnntc tttcnccanc tttnggnnan ctntnccncc 840
t 841

<210> 2831
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 2831
cnnncnntcn natgggnnnn tgtanggnct cctccaatct cctggctgcn cctgantcgc 60
ctaaacanaa aggctggggc gaattcggca cgagattaaa gttgaagcct ntctaatttt 120
tgaaggttga gcactttggt tattcatggt tttatatgac gatcatcttt tatccatcgc 180
tgcagttatc tattttgact tgaattggag gcagagctcc accaccccag tgtgtcgtct 240
gatttcccag actanagtcc agcctttcct gtgcttgcct ggcttccctc catgtngctt 300
cctaccccac catctatacc cttcacatcc aaaatccaaa acctcacact catacgagaa 360
tcccctgntag ggtcggtnta tatttacaca ctaaaaatct ctaattttga atttgttgtg 420
cctataaagg aataccanga ataccttaaa gttataattg attnattagc atctatttta 480
ngtcatnctt gggggantga tggaaagaat ccacatagac tccaganaga tggncnangn 540
gtttacctgc ccagccttga aacatttcct ctttcctcac annggatggg ctctcccata 600

antaanttca tngggccccc naagctntaa agnaaaaant aaagtgtctt tctcattttt 660
aaaaaannge aacctttgcc tgttcaaaat atgtccaatn cgaancccg naaaatgttt 720
aaaaangcnn tctntgggct cnaaatggng gttcaanggt ncnncctgac ctgncnnttc 780
tgcncnaann cattntccnt cct 803

<210> 2832
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2832
tnngngggtt tgnggggctt tcnaaatgnn gtcancgctg gctntcngca agatcccatc 60
gattcgaatt cggcacgaga gaaagcctta cgtgtgtgct gagtgtggga aggcctttag 120
caacaggtcc aatttgaata aacatcagac aacacacact ggagacaaac cctacaagtg 180
tggcatctgt gggaaaggct tcgttcagaa atcagtgttc agtgttcatc agagcagcca 240
cgcttgagag aaacagtgtg agaaaacccc cctgagggtt gggtctgatt gtacactgtt 300
gcacgcatgc agcagaaaaa tatgtatatt attgtaaata gaaatgacca catcagaatg 360
tcacacatgg ctgttctgga gagggcctct gagaaggcac tgaatgaggc gagggaccct 420
tcctacattg tcaccatccc cagtaaacct tgggtcatta ttcatactga caaggaaccg 480
agtcaatttg gtgaatagga aaagccttct catgaaaact acaatagaat actgttacca 540
aattcttcat angaaagatc atattatggg aatgataatc ctgttactgt ggattaggta 600
tagtgccaac agtttgaatg gtaagacaac ataatatata tgatagtgat gaaaaanaaa 660
aaaaaaaaac tcgagcctnt agaactatag tgagtcgtat tcctanatcc agacttgata 720
ggatccattg ttnanttngg caaaccncca cttga 755

<210> 2833
<211> 883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(883)
<223> n = A,T,C or G

<400> 2833
nngtggnttt ngtgggcttt cnaattccnn taatcgctng ctntccgcaa catcccatcg 60
attcgagcaa gtcagcaaat gtgggagatg gaaaactggc ttcctncacc cacctaggtt 120
ctttggctgg gctacaaatt aaatggacat aaaatagatt aacaggagaa aaaacacagn 180
aattatgtgt atatgcctgg gagtcccaca aaatatgaga ctcaaaagaa gggtccgaag 240
agggaagctt atatagcccc ctgagccaca gaaaggaata gggacctggg gcttctggtg 300
ggtggtggag acaagttatg gaagagtgag gggaggaagt gtagggtgag taaatgtggt 360
cttgttatgc ccataaaatc tcttggtaca tcacagntgc ctggagcanc cncagtcctg 420
atagagatac tttactaatg tagattttct tgatggatat cattgtgttt tacaaanggg 480
cagcttttna nagccactcc tgtgtctgca attttctcag nataacccag cccccaaata 540
ttgacaaggt nttagtttgg ggtgngnaat atncctggcc ttccctacca ngttngcnat 600
ttttnggggg gttgggtaat ttgctncccc gaagnccccc caaacccacc angnaaanaa 660
aggggaaggg ggccaannтn nnggggaaaa tttttaaagg naaatttttt ccaggnattn 720
aaaaggccat ttcctcnaat tttttgggna aangggaanc caagctnngc angggnaang 780
gccttgggaa cccaannant nagnaaaaag gtnnaaacct ggcattttng ggaaaanaat 840
gncaagtttt tggaaaaaaa cccnnttgta ncaanngttt tnt 883

<210> 2834
<211> 1090
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1090)
<223> n = A,T,C or G

<400> 2834
tggttnttng gggggnnttt ngntcgancg ctntnngcct ngtccngncg cngganccca 60
tcgattcgga aatatacttc cttaaatgat ggncattcct aaatccatct aggaatgttg 120
gatgtatcta tctatctatn tatctatcta tctactgnat taagcccent ctcaaaatng 180
tagggtcaga agtatggacn gataattcat aatcaagttc ttnttcttta tgcccagaag 240
tctgnatnct gcncagactt gcntacccct agctgcgcta aagntcanaa gntttgagcn 300
gccactgaag tattgactgt ggagaggcgg tgtatncctg ttnccaatga ngngcctttc 360
tgtccaggat nagccttatc ggnanttncn cnaggaagtt gcatngcntt cagtccattt 420
nnggcttana gccncncggc nncncacgtg ttccttattt gttttgacgg agnggtcntc 480
nngctcnatn tctttacnct gattctgctn tttcatcnan gtgnnccttc ctcannntta 540
ttnagtccaa aggnngaatn cngggttann ctatnnnggc nannatcttn ntnttctngn 600
aatccncttg ggntctaata ccnttgtctt caccnancct ttttaacccc tcttactctc 660
tccnttaana atanacctcn ttntatctcc ncttnnnacn ttataanttt ngnattgggn 720
cnannnggga attttncana ctagtcctan tgatnntctc tccgtcctta ntctntnttt 780
atncacannt acncgtnagn tnnaananca accntctcng ggnngngccc cttctttnan 840
aganaaccct ntatntnagt tnggaangng ncccggctat ntttatcccg gttangnnaa 900
ttcccccang gcacctcttg ggaatttaan gggatncccc caatttnngn gatctggaaa 960
gtnttttngg ggggcaccct aanacncnna cacnaannct tntgggaaaa ttggcccann 1020
tgnnaaaaaa aaaaaaanan gggccctcnt naaattttng gnnggaaaaa nttttnggnn 1080
gtanctccnt 1090

<210> 2835
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 2835
tggttnnntn nanttcgctn actnaanatc gntccantnn ctctgtntac gcnaagcaan 60
cnggcnggnc taattcggca cgcagatttc agcctgggca acatagtgag actcntgttn 120
ntaaaaaaaa aaaatcccac aatcctatca cacagagatg gcaacactta gcatttgttc 180
tggtcacctt tggaaggaac ttttanatca atgtcttgct tctctgtggg ttcttttgtg 240
actcacacct gcttctgggt atagtatgac tataaagttg atttcttggg taaggcatga 300
tctatgagag gaagctnnta attngatgan catcanggta atnntagctg ggataccttt 360
tctttgccct ctccaatcaa acntgagaag ttgaaaatnn aaaattatgc ttttgaaggc 420
nttgntgtna acctaaaata taactcaagt gatctgtagt tntccatatg tgcactgtca 480
acagctattt gcttttcaaa tccaaactan tttcatnaaa gaaaaccant ttggagtgta 540
ttcagcttat aattngnaag ctagacatga aagnnttnaa aagccnttnt agcctagacn 600
acntggcccn catntttnng tnanntcntg cnttntggga acttgnncna tgctaacccc 660
antaccnccc atcntgcnnc ctcctnttaa antgccnttt gaaagngggc aaaacngnan 720
tagnaccnnn tancctntca aaaggttgnn nngttncttg caaaatggaa gcccnggcct 780
tttaangggn cggnctttte ctttncc 807

<210> 2836
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2836
gnnnnnnnan ggggggtttc antctnnctg cagccgtttt cgttctttnn gcagatccca 60
tcgattcgaa ttcggcacga gaccaaagct gctggagcct gaggcagaga accagaggcc 120
ggaggcagac tgcctcttta cagccaggaa tctcagagga tttgaaaaag gtgaaggaca 180
ggatgggcat tgacagtagt gataaagtgg acttcttcat cctcctggac aacgtggctg 240
ccgagcaggc acacaacctc ccaagctgcc ccatgctgaa gagatttgca cggatgatcg 300
aacagagagc tgtggacaca tccttgtaca tactgnccaa ggaagacagg gaaagtcttc 360
agatggcant aggcccattc ctccacatcc tanagagcaa cctgctgaaa gccatggact 420
ctgccactgn ccccgacaag atcagaaagc tgtatctcta tgcggctcat gatgtgacct 480
tcataccgct cttaatgacc ctggggattt ttgaccacaa atggccaccg tttgctgttg 540
acctgaccat ggaactttac cagcacctgg aatctangga gtggtttgtg caactctatt 600
accacnggaa ggagcangtg cccagaggtt gccctgatgg gctcttgccn ctggacatgt 660
tcttgaatgc catgtcagtt tataccttaa gcccagaaaa ataccctgca ctctgctttc 720
aaactcaggt ganngaaatt ggaaaatnaa na 752

<210> 2837
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2837
cnaatcgntg cgaattcggc acgagcctga acctgcccat ggagacagtt gtnttgaggg 60
ttgccacaca cagtgagggc ggagcagggt ggctgagggc acaggtgcct gggtctgtcc 120
cacggggcan ggctttgggg ctgtgatgct ctgggaagcc agcttgggtc ctgggtctac 180
agagggccct ggccccggag cccagccagc tctgcctctc tcagggcctg gagtcctggg 240
ggagctcagc cagctctgcc tttctcaggg cctggagtcc tggatgaatc ctgcaggttt 300
ttgggttgca ccggcccagg gaggaagccn ngggtttgtc angtgggctc tcctggaggt 360
cctcnagtgg cangggtgac gaggggatta tntgangcat ctgganatgt atatcctgtg 420
gnntnccctg cccctctgnt tccgatgaag tgtaccgatg aatgaccttg actaaaannt 480
nagtttgcca cananaaaaa angggaggnt tantgggntt cnaaaatcaa gnaatggtng 540
caacctnggc cttcgcagaa tggaaantac naaanacggg gnaagatcct catgnccatt 600
tcccatggnn ttggnccagn ttttggaggn attctnnggn cccggcaaag gccccatttn 660
aaanttnatc tagncnggna ccnggnctat tncngnctaa gggnnttgcn cttntccttn 720
aacncatnga atcccttaaa tnant 745

<210> 2838
<211> 719
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 2838
gtngnggnag ngatcgtgan ccctctncct ttngnccagg cancccatcg attcgcaaag 60
atctaatgag tcacaggatg ggggangttt ttgggaaagg tcnggattag cagagttgcg 120
gcagaaagaa gtagagggga atatcttana aggcacttgg acagaatggg ggtgatataa 180
aagatgtatg ctgacattnt ggttttggcn cctagaaaat ntagcanaaa gngagaatnn 240
gtgccataca tccngntctg caccctaata tggaantttg ncnttccaca cnagnnttcc 300
tncacaatta acctntaagg catttnatgc cnntgcctcc acancnngga anagtacgac 360
aaacntccta nangactaga naaaatngcc cnnttcagan acattancag tacgtgtggn 420
tagaactaaa atggctcnca ggctcatact ggnagtganc aggnatgcag anaaaaanga 480
aaacccccan gtgtcantga ctgtgaacag gcctantnca gangcnctta ttgngcaatn 540
gcccttaaga nattgcccca anganncacc tgannacccc ccggaattgc cggaaaagaa 600
tacngatgag gagctnacgc ttatgngaag atgnatnaac cctatgttca gtgtaaacgg 660
ggntacaatn cnccaaanag cgnanctcaa gaacnagcct tcccgnnagg cnatcccaa 719

<210> 2839
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 2839
cngaangntg tgatgnatgt agncgttccc naggaancca ngcgattcgg nttggcgaat 60
tcggcacgag cccaggtgtc tatccacttg ctagnatttn ntcatgagag ttagatacca 120
gttttctgct ggaaatacag aacatttcct gaaaccgtgt ggttgaggtg aaacaggcat 180
tttgcagtct tatattttga gtaaggccaa acctgcctag tgttataaaa ctagacaaaa 240
aacccaggta cccggtcttg caggatagaa atgtgtgact aaaatgaagc atcgatctga 300
gaagactaca aattagcggg aacctttgga caggagcatg ctatacatta cttagattaa 360
tgttgatatt taaggagcca ngatnttgat nngtntttga ggggtgccca tntacttcat 420
ataagaggct ataaactgna cttctttcag ttantgctta atccnagctc aaacaagaaa 480
taattgctta ttccaaagta gacattggna catctttttc taggnacgta atctgngatg 540
aagtctgata aagctcctta agaaattctt atagtacacc ctcacaagan tgtattcatc 600
tacccgtggt ttaaaccnga aaattaaaaa ttntaaccct cgnnggagaa aatttaccaa 660
agtntttaat gggtttcagg ncccttaatt aaaaaaactt tttaacccct ggccttggaa 720
ccctttaaac cttaattnat nggatctnaa aaacaaatgg gntttnttgn nngaaaagtc 780
nnanct 786

<210> 2840
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2840
tttttggntg tgtggtcgcc ctcncctann ntgcaggatc ccatcgattc gctggaaggt 60

tactgcaaag acagcctggt gaaattgttn tnagtacaga ggctttaatg ggttctttga 120
ggtcaggtag aggttatggg gggagcacta cagtgagcat atacccaaaa tgaagccaga 180
cttccaaggt acgttctcac tggagaggga gcttaatggt aaagtttaaa ctttaagggt 240
ttaggtttta gattaaggcc caggagatcc aaggggaang aggagggtag gaaatcanan 300
ataagaggag ctgttgtcat cgcaggtata gtnataatta anatatgtta aactttcata 360
ggattttgca tttatttcat cagnttttt ttctagattc ttaaatctgc atatatctaa 420
atcttataaa tttggggaaa tgtacacatt tacatggtac atttcactca attttanagn 480
ntggctnttc ttgtgaaata gaattaaata tatgtgagta aatcaagacc cctaaccatc 540
attaatgtat tatttggtta tttctggcca aggcccttct tgattctttn aaagtgtgct 600
aagcccattt tcttcattac atccctctta ttttttgtgg ccaaattnac taaaatntan 660
gtatcttttg gtgganttte anatttttga aacctacctt gttttgaaaa tncatctttt 720
aaaaacctnt tttccaaaa 739

<210> 2841
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 2841
agnttttnaa tcctttggcc antcgcnctt tntgcangat cccatcgatt cgaattcggc 60
acgagaaaaa gtnaagcttt tcatgagcac anntnccttg cattgttnga tgttactgat 120
attcgtaaaa tgaatatttt ctgttttgtt ctgttnnatt tttttgagac aagtcttgct 180
ttgttgccca ggctggagtg caatggcatg atcttggctc actgnaaccc ctgccttgcg 240
agttcaagtg attcttctgc ctnagnctcc tgagtagctg ggattacagg cgctcaccac 300
cacacccagc taatttctgt cttttnagtn gacacagggt tttaccatgn tggccaggct 360
ggtctcaaac tnctgacctg aaactnctca caccngtnat ctcagcactt tgggaggctg 420
angtggaaag gatcacttga agccatgagt ttgagaccag cctgngcnac acagcngaga 480
ccccngtgnt gtacaaaagc ttncnacatt tanctggctg aggagtnnct cacccntaac 540
ttccancnan tcnnttaagc nnanncatnt tgaacacntg agcccannta nggtcgatgc 600
tnntagtnaa ccgtgactgg accacttaca gtccaagccc gggtngcctt ataaaagaan 660
cggaaaacat ttcnttaatt cgggttnnag cnttanctat ttcggaatnc cttgngtttt 720
naaaaacttg aatctccaan aaacagggtt ttttcttttg gnccann 767

<210> 2842
<211> 873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(873)
<223> n = A,T,C or G

<400> 2842
cgtacggaac tgancgggaa atccctcnct gcaagcagcc cangcgacgc gaattcggca 60
cgagacctaa tttttgagaa cagcaagccc tntttgacca ctctcttcag cctgtgtgtt 120
ccggctgttt tgaagtaatc aaatgctgtg catggtattt tacctgagct gcaacctgnt 180
atggacntga acntcnggat aagntgaaag caagagtccc tgagtataaa ggaaaaacag 240
canaacaaaa agcaaacnag ggncaaccgc gaaagnctaa aaagncccan tggtgangcc 300
cnntaaaana anctagcttn cagctgtcag gagctaatac tctctgnagg aattgganat 360
gggatnaggg cgaacaanan agggtgtaaa cngtggagct ggcatgagta ctgcangcaa 420

cctgaagaga cttttaacnt antnaccaca gctattnatn atgcggtnng caacaaacca 480
gcaacnatcn acaagcgtca taaagaagtt cagactntga acaattggng aaaggtngat 540
tncagaaccc gnctgcaaaa aagccatcan ncaccataan taaaaaagaa ccncangaac 600
anggggaaac ccngtgggaa naaaggaagt anaanntngc cacctcangt tnaaccatta 660
aaaaccctng gaaaannтgg ccannaggga aacccctтaa aangcaaaag nncctnggcn 720
aaaaaaancc ccggggaatt taancccaan gggncccaaa ggntnanntg gggccnnaan 780
nggggnaaaa aaangggggc nnggaaaccc ccaggnnnaa ntncnaaagg ggaaaaagna 840
aaaannangg ggggncnnnn naaaaaaaaa ann 873

<210> 2843
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 2843
tgggtttnng gnttngggct ttcttnanat gntgtaancg ctgctngccn cancannntg 60
gctggncgaa ttcggcacga gaaatggggg gtgttcttca tagtggattt ctttttttaa 120
acataccatc tttgtgtata tacatttctc tggaaatgtt tgtgaaaagg taaagataac 180
ttccttagtg taattgtgtt gaagtggaat gtttctagtg tttgtgaaga tatcaattgc 240
tggctgatat tttaagctgg atgaaaaatg tgggtgaagt aatcttaaag ggtgatagat 300
ttgatatgag aaatttaaag taatgtgctc agtgcgtagt ggtgataaaa gaatgtagcc 360
tacttgtttt ccatagacta tatttcatca ttgttgcata aagtcccttt tggccaattt 420
agtgaatgct gctgggtctt caggaaagaa aatcgtttgt ctttaaccag agaaataatt 480
gtggggatag aaagtagtct ttttcttgat gataaaaatt cattttanct ttttaaatta 540
cagtggtaat agcttgtagt aatagnggta atatccttgg tttttggcta atgatttтta 600
ntgtgctccc ncttaatntt ntnncgaatt attttnanng tgaccaaacc cntntatnnn 660
acntngcctt naacaaatcc ncncttnant nctctncncc nnaaannccnn nncanctccc 720
ncctnccncc ccnnntcncc tnacncaccc cccncnccnc tctcnctccn ccccccc 777

<210> 2844
<211> 892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(892)
<223> n = A,T,C or G

<400> 2844
tntagggcct tnnnnannng ggtntttctt ntccantann ccgtgtggtc tcgttctttc 60
tcnnannanc nanncttgtc gctgggctca ggcaatncac ctgccttggc ctccaaagtg 120
ccgggattgc aggcataagc cactgtaccc ggccccaact aatttttgta ttttttgtag 180
agatggggtt tcaccatgtc ggtcaggctt gtcttgaact cctgagctga agcaatccac 240
ccgccttacc ctcccaaagg tgctcagatt acaggcttga ggcactgtgc ctggccatgg 300
gtgccatnta tctaaagagt gatgaacttg gtgttaaacc agtaattgaa atcaccaaaa 360
ttcctaccat catgagctca gtctanntgg angagacaga tgaaccaatt angcanntct 420
gntgaatttt ggggttcanc agtgcccana ggtggggtgt agtgaagagg aatgccanaa 480
ttttggagag gtggagcaca cgacccacgg gtactttctg aggatgtaac ncanaagtcg 540
tgatcagaaa gganganagg ganacanntg gggaaantnn ctgggaaana ncngtcnatt 600
ccaggcagtc agcttgctnn ancncnttgg gccttncttt nanaacnccc tttgcctttg 660

gaatnccttg aacccnaagt tttcaacttn aaaagaaatt cctttgggnn anngaaannc 720
ntatatcacn ctnntatnac aaaaaaacnt tccnaaancc nctttttan aaaacctttt 780
ttccctngnn aggtccccna atttttaacc ntangnaatt ccccntaacc tttgntattt 840
aagnattncc catttnggna tcaannttc tgnggaaccn aantcccccc ct 892

<210> 2845
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 2845
gnnnnncnnn ntgncnnnnn nggggggntt tnnttttttcc aaanggcgtg gaactcgttc 60
tntccgcaac agcccngcgn ntcgcttctt ctcaactctc tgattgctta tataagtgac 120
gtcttctgaa ggaaagttca gcatttttc tcagatatga taataatata tgctaagatc 180
ttggccaggc acggtggctc acacctgtaa tcccagcact ttgggaagcc aaggtgggcg 240
gatcacttga ggtcaagagt ttgctgcctt caaatcaatc attacttctt agcacctctt 300
gaaatagaaa ataaaaaatt tggccaggcg gtggccaggc gcagtggctc atgcctgtaa 360
tctcagcact ttgggaggct gaggtgggaa gatctcttga gcccaggagt ttgagaccag 420
actgggcaac acagggagac ctcatctcta caaaaaagaa aaaaaaaaat taattagcca 480
ggtgtggccc catttgtaca aaaaaaaatt ttttttaatt agctgggcat ggtcatgtac 540
acatgtggtc ccagctacta gggaggctaa ggtgggagga acgcttganc ctgggatgtc 600
aaggctgcgg tgaggtgtga ttgcaccact gcactccagc ccagcaacag agaaagaccc 660
tgtctcaaaa aggaaaaann annnaaaaaa actcgagcct ctagaacttt agtgagtcgn 720
attacgtana tccagacatg atangatcat tgatgagttt tggacanc 768

<210> 2846
<211> 905
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(905)
<223> n = A,T,C or G

<400> 2846
ttggggtntt taggtgtggg ntttnctttt ttcnaatngc cngggntctc gttctttctc 60
gnagnagcnn ngcgnttcgc tcaccaagga acacaaataa acagttgatg aatccatcac 120
atcagtgatg aatccagaat gtgtccatca ttttcgtaag tcttagtatg cagagaatct 180
cagatagcaa agcagaaagg atgatgtcac agacgccttg ggtacccagc acctggatgc 240
agctgtttgt acacacatac tttctgatat tatgttgaca gtgacttaca ccacttcaac 300
ctcaggcagg attctatcag tttctttact acagattgat ttgtttcttt aataatnatt 360
gtaattactg tcagtaaaaa tctgagtctg actcagcaat tagttgctgg taactgagtg 420
tgttgtaatg ctggggaaag gatataaaac tngtattttg aacagaaagg cncacatgtg 480
ggtgagcagt gtttaccacc acagaatttc cgtcttcaca naatnganat anctgcacat 540
gaangtatag tnagcantgn angttnnttt nnanaaagta aaagttaaat tacccntnat 600
aagcctnctg gatttnncng nnnttngttc tgnatttcct cctntgccnc cttcaaattn 660
naantttana nggtntnctt nttctnctca atatctctcc ccnacanntn tngttnntgc 720
nctgannccn natctcttcc ntcnnnccng atggtgtatg nncnnggcna ttncttcnac 780
ccattnntat cttatctntc nnatcnttnn atnntcntnt ncctcatngg naacnnttac 840
acnttnnang nttntngggc catnntctnt gttcatntgt ggggntctna gnatcttttt 900

ctaan 905

<210> 2847
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 2847
tggnttttna ggngtgggnt tctttttac taatggctgg gctacttgtt cttttngcag 60
gcatcccatc gnttcgatct gaaccacatg aagttgagta aaaaaagcaa tttgcagaag 120
gatacataca aaatgacacc atttatatag tagactgaaa gcatgcagaa caatccattg 180
ttgtttacgt gtgtaacagt cataggaatg acaaccactg ccttcagaat tatggcgacc 240
tctgcgatgg aagagaatgg gatcagagaa ggatacacaa taggctttaa ctgattttgt 300
gattattgat attagaaatg tttaaaatta agatattaac atttcatgaa gctgagtggt 360
gagcacacca gtgttatatt ctctctatat aactttgtgt atatttgaaa tgttttctca 420
taaaaagcat ttaagcaagt ttaggaaaga atattgataa atgaaattgg tagagaacca 480
tgaaattaca tagatgcaga tgcagaaagc agccttttga agtttatata atgttttcac 540
ccttcataac agctaacgta tcacttttc ttattttgta tttataataa gataggttgn 600
gtttataaaa tcaaactgtg gcatacattc ttctatacaa acttgaaatt aaactgagtt 660
tttacatttc ctctttnana aaanannntn ttaccnttnt nnnnannnnt ntcnnccccc 720
tncnntntcc nctntcnctn cnnttctnnn annanatcct tnccctcnct tnnn 774

<210> 2848
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 2848
ggtttttcnn naggccggtt tttcctcnng nctctncctg ccccngnanc nccctctcgc 60
cgaannagct nggcggtggg cgatttattt gccctatttc ctccatgtac ggagacatta 120
cnttttntgc ccagtcagat ttttttcatg ctatctttta gtcagattta atttaatgtg 180
tatttctagt ttattgcttc tgccatgttt tattctttat gaagatcccc gagtattgag 240
tgtgccagtt accagattct ctcccagctc taaattacct cttcattact tgatctgcaa 300
tattggagcc taacccttta ggccaggggt gtccaatgtc ttggcttccc tgggccacat 360
tgaaagaatt gncttgggcc aatgtggact ctatatggta taaaggagta tgtaaactgt 420
ggagagaagt anggctattt tctacagcag tggtcttcaa attttnnaat ngggtacctt 480
accagaaaac atttgaatan aaaacctcaa tatnagtatg tcctaattat aaatcatatg 540
tataaatata tatactatnt cggcttatat agngntttca agtctgctta tgatgtaatt 600
atatgtnnca gaacaatttn aatatactct ttttccngnt cnccttcaan cggtcaatcc 660
cnttgnacng gnnaccnact tnccttcata nnnnctnnct taaccagtga aagntnnang 720
nctnnnnaaa aacctctttc ccnaanataa ncntngccct ccnttnccca ttncantcgg 780
cnaaaccnan cnnnattgnc cccnnc 806

<210> 2849
<211> 758
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 2849
tggtnnnnnn ngnngngggt ntcntttntt atnanggctg gactanttgt tctttcngca 60
gcancccatc gattcgaatt cggcacgaga taacgcccgt ggtgccccat ccctatagga 120
gctggtgaga ttgcagcctg ctgcctcccc tccatcagcc acagctattg gatttcccac 180
ccagaatctt taggtaaatg agatcatgat tctggaagga ggtggtgtaa tgaatctcaa 240
ccccggcaac aacctccttc accagccgcc agcctggaca gacagctact ccacgtgcaa 300
tgtttccagt gggtttttg gaggccagtg gcatgaaatt catcctcagt actggaccaa 360
gtaccaggtg tgggagtggc tccagcacct cctggacacc aaccagctgg atgccaattg 420
tatccctttc caagagttcg acatcaacgg cgagcacctc tgcagcatga gtttgcagga 480
gttcacccgg gcggnaggga cggcggngca gctcctctac agcaacttgc agcatctgaa 540
gtggaacggc cagtgcagta gtgacctgtt ccagtccaca cacaatgtca ttgtcaagac 600
tgaanaaact gagccttnca tcatgaacac ctggaaagac tagaactatt tatatgacac 660
caactatggt agcacantag canagtnacc nnatttgnnn aaggagcatg acncctnct 720
gatttcnaan tcangtgatg naagcntgng aagtgann 758

<210> 2850
<211> 829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(829)
<223> n = A,T,C or G

<400> 2850
ttttccntnt nggcctnnat anggggcttt tctaatccag atactggnct ggtttncgca 60
cgcatnccan cnnttcgaat tcggcacgan caaanacaag ccttnatgga aaaggaaatn 120
cnctcccctc catgtatatg gatganggga gcagcacaag ncacactccc accatcctca 180
cnnaattcct ggacccatgc ggtggctccg tgagctgggt gactccagcc tnacctgcac 240
accccaaccc tgcncggggc cnttcttcct accancatgc cctcggtnag ctaggaattn 300
agatccctgc ntgtgaanna nggaactnat gtgcacagaa tccncaggnn tgccatatcc 360
ttnggcatga tttagatnaa gtcgccctgn ntncagantg accccgnngc tctncagnga 420
gttntcaagc cccangaaat cggccttgga tgctctcntt acaagacagn ntnacncctg 480
ggccctcgtg catnnnnctc actgncccgc tggatcccgn cattaccccc aaangacagn 540
gggnaaaacac anngnnanan cacancnttg ncccctccag cncnnttcac nggcancttc 600
ttnnattcac cccgnttccc nccnnnacct nntcccccca anccnnnaca ancntnntcc 660
ccaactacan gccccctttt ccttgggngn aaaatgctcc nttggtancc cagttataan 720
aangccntnc ngcccccctc ancntgattc tcccgcatnc ncanaccccc annccccaann 780
attnaannac cccaatcccc cnnanaaacc ctcctttcca ncttnnnnct 829

<210> 2851
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)

<223> n = A,T,C or G

<400> 2851

ntaggnncnn nnnnagnggg ctttctaatt tactannggt ggactagtng tncncnnaan 60
ancntnncgn tgtcgaattc ggcacgaggg gtgacttcct gtgacctcca aaggaagtct 120
cagctctgct agaatgggac caaagcccag ctccaccttg aacttgngtc atagccttgc 180
ttcttgttcc ctctncttan ccgggcanat gccttgtcct ttgataaagg cttnctgtca 240
ccttctgagg gctcttgtgc tttttgcagg tggatgccat tacctttacc gctgagcctn 300
ccgcaattgc tntgttcaca cgctgtccgc catctgcctg caagggccca ngcagggtnt 360
tactcatcat tatgtcattg nttnaataga agcctaatat nttgtacata gtagtcagga 420
agcccagaaa attgggtatg ttctatagat ttaccaccat tgcttattgc tgtntcnctt 480
taataaagnt taacgaaagt naancaaacc acantacccc ccaaagacag nnnngggaaa 540
cacactngng gaaagcccca ncatggcccn ccttcnancc ccctttttang gnactcttng 600
nnatcaaccc gggntacccg tccnccactt gntgccccna cccactccag nnntnttncc 660
aaannacaac cnttnntntc ccntggggga aaaatgnntn nttggggtnc cncngntncn 720
aaaaaggccn naatgggtnn tcttaacctt nnttncnnca tacnantccc cacnacnttn 780
accccaaata antcanncna cntcctaanc ncannnncnn aaagcccttt ctncanctac 840
ttntnct 847

<210> 2852
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2852

cngttncnna aacngtctgn ggaaaagccc cctttntgca ngatcccatg cgattcggcc 60
tcatctccca ctgagcaggt gccatcccag gagatgcttt tggtggcgag accttccccc 120
cctgtgcagt ctgtgtcccc tgctgtgccc acacctccct cgatgtctgc tgccctgcct 180
ttccctgcag gtggtatggg aggtggcatg ttctaactcc tagactagtg ctttaccttt 240
attaatgaac tgtgacagga agcccaaggc agtgttcctc accaataact ncagagaagt 300
cagttggaga aaatgaagaa aaaggctggc tgaaaatcac tataaccatc agttactggt 360
ttcagttgac aaaatatata atggattact gntgtcantg tncatgccta cagatnattc 420
atttngtatt tntgaataaa aaacatttgt acattcctga tactgggtac aagagccatg 480
taccagtgta ctgctttcaa cttaaatcac tgaggcattt ttactactat tctgctaaaa 540
tcangatttt agtgcttgcc accaccagat gagaagttaa gcagcctttc tgtggagagt 600
gagaataatt gtgtacaaag caagaagaaa gtatnccatt tatgtgacaa cctttntggg 660
aataaaaaat ttggtttaaa agttaaanaa anaaacaaaa aaaaaaaact tcnanccctn 720
ttanaacctt taggggaggn ccgnaattac cgtagnancc caaat 765

<210> 2853
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2853

tttnnaaggg gnntaagtgg gtcttctttc aannggccgg gtctcgttct ntccgnanca 60

annangcgnn tcgaattcgg cacgagcgtc tacatccagg cctccgagtg acggacctga 120
ggtgtctgtt tcctgggcag gcctgatgct cctgtttggg tccagggccc ctgggggcag 180
accggtgatc cttaccagtg gaagcgagcc atcgagccat tggcagaaat cctgctgaat 240
gtcattcaga aacctcagcc catggtcgcc ctcctgtgcc cctctcctgc cggaaagccc 300
tgcaacattc tagggttggg ggcagggcca tccacggttt ctgggcagag ccatggtggc 360
aggagagaga tggctgaagc ctgagcagcc cagagtcccg ctggtctagg ctggtggtcg 420
gggcccctgg gagaggagac agggcattcc tccccactct gtctncaggc tgcctctggg 480
tagcctctag tctgctgttc ttcaggaggc ctgccataaa ctcttcggag tttacgtgtt 540
gcacctttc acagacggtt ccccacagca tcctcagaca gctctgtgat gtagctttta 600
ggaggcactc aggtgtcacg gctagactgc agctatgaga cagatctggc ttcaaatcca 660
anagttgcca tgcacttgct gtgtgacctt gggcaagtca cttcactttt tcttgagccc 720
ccgtgttcct tcatctgtac aatgggggct tacgatactt actan 765

<210> 2854
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 2854
cnnntcnnng tgttggnntt ttgtggggtc tttcctttct taatnggtct gtgatncncg 60
tnctcaccta acacaacnng gctgnngcga attcggcacg agaggatgtt gctgctgtgg 120
gccgcaaggg tcttggtagc ttcctctagg gcaggcttgt gttcctgatt ggggttggga 180
tgggtggggg catcccctgt ggcctcagca atccagccct gcncatctgg gtcccattac 240
acagacgtag acattgaggt ctanttngaa ngacttgccn ngagtcctgt aatagagctt 300
ggcacttggg tctcttgact ctcanggact gggtgtgagg gaantgggct ccttttgctc 360
cctacctgca gtgcctttga ggggatgagg gtcttccatc atagttcnga anatgacctg 420
cacattttac tgccttanaa atctgctcgt tggggccagg tgtggtggct cacgcctgta 480
atcccagcac tttgggaggc cgnngtgggc acntcaccag gtcangagac ngnnaccatn 540
ccggcttacn gggtgaaacc ccatctctct aaaaatacaa caaaaattan cctgccatgg 600
ngnngggtgc ctgcactccc actnctccng aangctnang cccgnannaa tngcntgaac 660
ccnngaggcg gnntcttgca ntnaccccat aannncgccc ccngnactcc ancctnnga 720
ncacanaaan agacttccnc ctnnnaanaa nacanctaat ccnnaacncc ancctctna 780
ancnt 785

<210> 2855
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 2855
nncnnntntn tnatggnnnn gnctnggngg gnnctttctt ttcttaaatg ntgtggntnc 60
tcgnnctttnc tcnnannagc ntggcggnng cgctttggga tctttagatg aatggtatca 120
tacagatgtg tattattgct aattctttgt tctcaatcac ttgttttcaa ggacactaaa 180
atccatgtag cccctaaaaa agataaataa gggcaagtca cttttcttcc tccagtcaca 240
gactaaagaa attatttcag ataatatata gcccttcagc catgggagca ggaagtgttt 300
actgctcaag tcagggtctc agttggtaaa ataaacggaa acttctggtt tagttttngg 360

gccttctttc aaataaaaac ttcattttct ctgggcaaat acattgattt aattttgtat 420
tattggtaaa atattcatca agtcacggtc agnctttaca gagtaccaaa acataacttt 480
gccgattttt tctgtttaag ggccagctag gttngttnaa aaagaaaanc ttnnagccac 540
caaaaagcct atggcatttc tttctcttat gatctttaaa actggttcaa gctcatcctg 600
tttgngagtn atttaggtgt gtccctcttt gaaaatgggc ccccataaca ctttttttaat 660
nggataaaag nngagaacat ggagtcanaa tggagcaaaa ntctgaatat ttcacatggn 720
ctaaaccctt tntttaaatc aanggnnaan nanaacaaag ttgcnaaaaa agcccaaaac 780
atnattt 787

<210> 2856
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2856
tgtgntncgg tanggggtc ttctttccag gtgctggnta tcgtcctntc cnnanagccn 60
ggcngntcgg tctcgctttg tgacgtagcc tggtcttgag cgatcctttt gccttggcct 120
tgccaaagtg ctgggattgg aggcatgagc cactgcaccc acccctgttt tttatttaag 180
taaaccatta taataactca tttataaaaa ggttacttca agagggcttt caacttaaga 240
attattttca ttttgaacat gaaaagttaa atagtaacta agaaactgag aactctgaca 300
gtgacctcta ataggtaact ttaggcaaaa gtagacaagt ttgtgggtat tttgntgttc 360
atgttaaaag gcacctgtac aagaatcaan atatgaatct agntcgtana gggaaggtct 420
tatgcaaata ccaaatcata caagtggtta cacatataat agatcatttg gtccantaaa 480
agtgggttca gcttgtttat tccctacttt tgntatcnta aaaacaatga ttttttgcat 540
gtaatagaan gctttcactt aagatgctnt tgagtgaatc agtgaggggt tcttanagtt 600
agtattcatt aattnaacnt anaatattan ctaaacagtt ttgggtcact gcaatgcatg 660
gtctatngaa anactanatg tttcgnctga aatatgcttc aantgttgcn actatncana 720
anggcttttt atgttntnna atttnaaacn tgccanttnn attnt 765

<210> 2857
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 2857
nagnttttttt tgggggnnc tttctttngg tngcgctggn ctacttgttc ttttngcagn 60
agcccatcgt attcgaattc ggcacgagat tcaagatgag atttgggtgg ggacacagcc 120
aaaccctatc ggttgccaac atttacagta acagtgttag gtgaacagtt gtccagtctc 180
ctgttttgtc ggacactgtt tctagcacct tccaggcaga atctcatgta tccttcactt 240
tcgaaatggg tactatttca tccccacttt tatcaatgag aaactaaagc tcgaagaggt 300
caagtaagtt cctggccaag gtcagctagc aggctctaga ggcctcgttc tccttagagg 360
cagccttgcc agggcccang cttggcaggc tgcanggcan gtgcgggcat gcccatggta 420
gaggtgggac cattgaggct cagagagggt aagtgatgag ccctggcgac acagcggggt 480
gggtccagag tccggcctgc atcttctgga gctggccagt ggacaggcct ttcccgttca 540
cagccccggg gctgctgtgc ccaccaaggc ggatgtgcct accgaatcnc actcctctgn 600
gtgtgtccct tttcaggccc ctacatcatt cganggaatg gcnnccccnn acgacttccc 660

ttncnaccan tccaccnttt nnttacannc ntacttccan nccccagnnc tcttgtaaaa 720
gncccannen ancttcccta nccctggant ttttacccnc nttnnctcat ccacccctct 780
tttctccccc ccnt 794

<210> 2858
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 2858
tgggntttag gcgccgcttt cnnnnnngnn nngctggcgg acttgtcctt aatcnnaana 60
gcccntgcgn ngtcgaattc ggcccgagca agcagaaatg tgggtggtgt gactggggtt 120
tggtganggg ctgctgnngc tggaatggag ggctgccaca ttaatggaaa tggnaaatga 180
ggcacgtaag gttngactgg aggcatancg cccatgttgc cngctttatt aaatcactct 240
tgcantatnc ananctangg cctgatgnna nnagtgactg tgtcttgcac tnntncaacn 300
tacagnggga tgctnnaaga atgngcactg cananaggac tngtnctata ntaaccatat 360
gtatgcntnn cgtaananna tcgcnngctg actatctcta atnngngcgg ggaacgtgat 420
cacattcncg nncnnttaca tggaggctcc tctcccngan gnntctaanc tannagangn 480
ccatgagtat gaaacantgn ctnncaccac ttnaacttac ccnanntnnc ccaatatctn 540
ttgnctagct ntngattctn tgnnnagcct tnactggacc ctacttagac anngcctttc 600
acacnctcan naacgattcn tgtagtaaat nctantaacg cttcccccta cacctnnnta 660
tgnatttatc gcncctctat tncttnnccn ntcncngnnn tnantgaacn ttacctcccc 720
ttnnaannnt ccgcnncnct tncaaccntt nanttncanc atttcnctna tccttctcac 780
cggggcattt tnntctnggg ntccgggtnn gnttntactc antgcnantn 830

<210> 2859
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2859
tgtnntttgt tgggtgtnct ttctancatn cggggntctc gnnctnccgc ancagccnng 60
cgantcggac tgacagnngt gccaacatgg cattctgttt ttgaaaagtt acatgacact 120
attaagtatt gaaaatgttc taactagaaa aacgattttc ttaatcatag tttttattgt 180
ggggtgtgta tgtaagtttt aacgtgcaaa ttaacatata gaagtcactt tgtgaggttt 240
catttaaatg tatttctcag attttgctga atctgtaata gccattgaaa tatttaagta 300
ccttggctgt tcctggcatc aataaacaga ttttttcttc cctcctcatg ccatacaaaa 360
gttgacaata gctttatcac cacaggaaga aagctgacca tcattgccct ttatttgggc 420
ccagttgcca tggttacagc cctttagcta aattgggaat ggtaaccaaa ataacatttg 480
cataacattc ccttgttctg cccacctctt tgcacatctt caaatcaagg ttttggtctg 540
atcaccatac tatgctgtag cctactttta ggaagtactt taggctaaat agatttgttn 600
catttatgct aaatgctctc ctggacacta ccatactcag catattcctg gaaatctaac 660
gcaatnatnt tacctttttaa aacacccggn ctccaacngg nnnnntacct ntnacccncn 720
ctgnncnnna tntnttnncc tncnttatcn antaaangc 759

<210> 2860

<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2860
ntttaactna cnggctngga naccnnttct gcagnaagcn nnncggngca attcggcacg 60
agattctctt agtgatgggc tggaggaagt ttttnaaagc agaaatgaaa gcttacatgg 120
aattagtcaa caatatgctg ttgactgcag agctgtatct tcagtggtgt gatgaagcta 180
cagtagggga gatcactcat gctaggtatg gatctcctta cccttggcct ctgaatcata 240
ttttggccta tcaaaaacag tgggaagtca aacgtaagat gaaagctatt ggatggggaa 300
agaagactct ggaccaggtc ttanaggatg tagaccagtg ctgtcaagct ctctctcaaa 360
gactgggaac acaaccgtat ttcttcaata agcagcctac tgaacttgac gcactggtat 420
ttggccatct atacaccatt cttaccacac aattgacaaa tgatgaactt tctgagaagg 480
tgaaaaacta tagcaacctg cttgctttct gtaggagaat tgaacagcac tattttgaag 540
atcgtggtaa aggcaggctg tcatagagta tgtgttaagt ctcangagtc ttaactttng 600
gaaatatggt tttacttnaa tgttacatta gatatngggt gntacgaatt tttanaacca 660
aattactggc tttttgnaac cttcaaaata ttataatggn atcttaatgg aatgngcctn 720
taanattggg naatttgggg tattacaatt aaaaanaaaa tnccg 765

<210> 2861
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2861
gaancagctc tntnctttttt gcaggatccc tcgattcgaa ttcggcacga gagttgctgt 60
cagtcttggt gtggaaagga gacgcatcta tgacattgca aatgtgctgg agtcgctgca 120
tctggtcagc cgggtggcta agaatcagtc tggctggcat ggacggcaca gcctgccnaa 180
aaccctgagg aacctccana gactnggaga ggagcagaaa tatgangagc anatggccta 240
cctncaacag aaagagctgg ncctgataga ttataaatnt gganaacgtn gaanagatgg 300
tgatccagat ncccangaac aacagttact gganntctct gaacccgact gnncctcttc 360
atctgcnaac agtggaaaag acnagtctnt gagaattatn agccagangt ttgtcatgct 420
gnnncctcgnc tncaaaaccn agatngtcac tctggatgtg gctgccgaaa tactgntcgn 480
agacngccaa gatgccccag accatagnan atttaaatgt aagaatnttc acctgcatna 540
ncttactagc acataaaggg tgggatttna tgngtngata ttntctgctt ccgagattaa 600
aaatctntnt antgnttgtt gacntangca tggaagtgcc cnaaactcct gccttttaaa 660
actntcnnng agnccatttc cgtanattcn cacntgatta agannca atg gtgaagtttg 720
ggnaaaaccg ccacttggat gcaccggaaa aanatnt 757

<210> 2862
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(750)
<223> n = A,T,C or G

<400> 2862
gaagcagctc ttgttctttt tgcaggatcc catcgattcg aattcggcac gagacattgt 60
gttgcatctt ataacttgta tagattgagc tgattgaaat aagattttgt tccaagtatt 120
atctgataga atacaagatg attcaaaatt atatagatat ttaaagcttt tctgctgttt 180
ttttttttta attgcaactg cttttctgcc gtgcctctct tccctaccca aaagtgatga 240
gttctgaaca agacaagact gtcatattgt agagactttg gtatgtgata ccatagaata 300
ctgattggat agccatccta gtcacttacc aatactgact agaagttaac tcttaattct 360
aagctatctt aaaatgcata tatatacttc ttgcatggaa gagcaaaaca aattcaagtt 420
gtcatgcctg ataatttcag atgccaccgt atagcaaagg gtgaacatgt tttcaaccct 480
ttaacttttt acggtgtttg aagaccagct actccttaat atttatcaat ggattaagaa 540
gtttaagatt ttgcagattt atcaatttgg gtttttgtac tgaagttgtc ttgcggcttt 600
gcaagtgtcc ctttatattt aaatttgaaa gttgtaagcc ctggatgtta atgtgattga 660
tcagcatggg catatgtaaa atgncctttt ctgggtggct ctctatgcca atggggtcag 720
atccttacac ccntaattna accagtnngt 750

<210> 2863
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2863
gaaancagct tnnnaaccnc ttgcaggatc cctcgattcg aattcggcac gagggatggg 60
tgccctggag ccaggcaagg caggaggccc cagaaacttg gtgggggaga taacggaggg 120
gatggagcag gaggaatcct gaaaaccgga ctgggagaga tggggccgag tggacgatgc 180
ccagtaccag cgggcgtctg agactgaaac attaattctg aagaagaaga aactagacag 240
tcagacctcc aggactaaga tgaagtgagc cgagaggana tcgtatcata agaatgcttc 300
tgtcgntagc cgggtgcagt gctgtgtgta tctagttnca gntacttgag aggctgaggc 360
aggangattg cttgagtcca gaaagtggca gttgcagtga gtggagatcg cgccactgct 420
ctncagcctg ngtggcanan cgagaccctg tctcaaaana taancaaaaa caaaatgctt 480
ctgtcagtta acaatcttta ttaaaagggt ttttagtctt tctttctcaa cttgtatgtt 540
aanttggttg acaaatgcna attnacgtct ttattatnct ttctttctna anaaaaaagc 600
cnnnttntgg nanaanctcn acctntgaac tntgtgagtc ttattacntn natccntcca 660
tgataagatc cnttgatnat ttggacaaac ccacttgaat gcnttgaaaa aaangctttt 720
ttgggaaatt tnngatccta tc 742

<210> 2864
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2864
gnntagctag ctacnnaaac tctttggcna atcccantcg attgcgnntt cggcncgaga 60
actgacctaa gcctcagttt ttcagatctg tagtacttac tttacatgat tgctctttga 120

attgaataac ataatttatg tgaaaacact taattatgaa tgctgtaaaa ctatcaaagc 180
cattaatatg tgtnatagta gcatcataca ttttgcagca taatccagag aacaaggagt 240
tgttaacaag ggagaggaag ataatctggt tgggctagta ttatactctc aggtgctact 300
gacttcttag atgaccttca agatgttagt acaactctct acttggagat gctattttct 360
ggggatgtta atatccactc tattcacaaa attttaagaa aagtcaagta gcatggatga 420
aactctccaa agttctgctt aaaactaaaa tatcttagtt gtcactgaag ccacagatat 480
tttgtgaatg cagcatgttc ccaataggca gtccctctta gcctcacagt ccaagctggc 540
aacaggatca cattccaggg aatgaacaga aaggctggca ggcaatcaca ccgctgatat 600
cttangtgtg tgggcccccc attttttttt tgagatggag nctnactctg ttgcccaagc 660
tggagccttt taaactatag tgagtcgtat tacgtanatc cngacattgt taggatncat 720
tggatgaagt ttgggncaac cacacttgga atgcngncg 759

<210> 2865
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2865
gnaatagcta ggcnatnaga tctcgttgca ggatcncatc tnnttgcagg atcccatcna 60
ttgcgaantc ngcacgaggg acccccctaat tttgtacatg ttgatgatag gaataagggc 120
ttcgtttatt ttcactgcat gctctctatg gaaagaggat gtgctaagca aacaagcatt 180
gtaaacaata tttcagaggc aaggttttgg cctgctttaa aaaaataaaa tgtttgcaag 240
tacaattaaa aaccagtata agggacaggg gtgggatgaa aacctgtctc taagattacg 300
aagcctgcgt tatttcccct aaatcccctt cgaggaagat ttgaatccct catcaacaaa 360
ttttcattga ttatgtttct attatatata ctgtagactc tatattcacg aatgtaatca 420
tactcattca gaaaaatata ggaagagaaa atgagtatga cctgtagcct gaatttcatt 480
ataaaagatt taaaaatata cattttatat taaaattgat gtaatctttt aattatgaag 540
tctttgattc tttagatgtt ttcatccata acccaagagc aagatcttgg catcagtttt 600
ttccangtta tgtctatatc atctattatt acttaaaagt ttggagttac atataggata 660
tattgatatn tagagagtta taggatatat gmnantttt ttcaattcca gtcccccaac 720
ccgagcaaag anccattttt tatggaactt aaaaaaaaaa aaaan 765

<210> 2866
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 2866
ngtanganac tnnacgggaa atcccntntc tnnangaanc caatcgatgc gaattcggca 60
cgagccccag ccagccttca gggtcccctt gttnttgtgt agatgcagtc tagcgggggg 120
ccggagaagg gctcaggtgg gaggggcctc agcaggctcc cagctcaggg gctggcctgg 180
ggggaaccct gggagccagg ggctgactcc agcaacactg gcctgtctgc ctgttctggg 240
agggctgtga ggatgtcttg cagatgctct ggatttctgc ggaggcacct ccattccttt 300
ctggcttttt ttgcgggggа gggctttggg cctctttctt tgagggaaca ccgtcaaaga 360
aagcctggga gatcgaggct tcagtgagcc aggatggaaa cgcgtgtccc aagtgtccgg 420
acaggcggca gaggcctnag tgcggcaaac acagccccag agcctgtgtg gcaccagcag 480

catcttanag ccccaggtat atgctgagan cttatctcac gctgcctcca ntgtctgggg 540
ggcccaaaat gatggcacaa gggcangtgg gcctgnaagg ggccncaaaa tgccctgngg 600
ttcaaaggga agggtggccc accaatgggg cccnanggtc ttaaccccaa ggaacccctt 660
tggntctngg tnccttaaac ccttggcann tnacnggnaa gnacctaatg ggngggnact 720
ggncccangg gccccnngtg naccctttggg ggggccaaaa tngggaaagg gccccccctg 780
aaaaaaaaan 790

<210> 2867
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 2867
nacnaagata tcctnatnnc tggctnnccn tttctgcang atcccatcgn tncantgcgg 60
cccgaggctg actgttggtc atcttgccag atcttntntg atgtcttttg cttcatcctg 120
ctgtgcatct tgcaggaaag tagatgctct tggtcatttg agtaatccga atcttgttat 180
ttccagtcaa ctcagttgga tttctgggat gagaattaga ggagtcccat tgaaaaactg 240
gaatgagaga tgagaagttt gctgaaaaca gaacattttt ttgtgtgtgg attgatttgc 300
ctcgtatacc tgccttgtac tttaaccaca tctttgcagt ttaaaatага acacattatt 360
tcttcagatt cacttatttt gactacatca gtaatgctct tacaaggctg catgacagat 420
ttatggtgac atgctttagg cagttcaaaa tccttaaacc tatattcagc tccttttttc 480
ctagaaagta agtcatctta attttcaatc tttctttctt tttaatcttt taatgatttt 540
ttgggggaga ggaatcttgg cagttagatt cttcaagctt ggctacaaat gggttaaaat 600
ataagtggtg aaaatnttat actttntcct atttngantt tgnctgctca tttggnttct 660
tcccatggtc tcaagtatac aattnccaag tttattgggg ctgnntcacn tgnttccatt 720
tctgcaggga aaaggctgcn ttncnnaatt ggggttnggc cn 762

<210> 2868
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 2868
ttgttctttt tgcaggatcc catcgattcg ccagagcgag cacgcgtctg gcggctgctg 60
tcgttgtgtt ctaccccgta ctgacccaac accacaaggg ctttctctgg tcccctgtcc 120
ctaagacaat aatcgctttc tgacaaagga gcctgcacat ttgggtgagc agacccaagc 180
tgtttacagc tctttcttgt cctgccatcc agtagcagtt agtcttcatc cccacgtgaa 240
caaaatggga aggagccgtg aggagaggag tgaggcaaca ggcacccgaa gtccctcgtc 300
cttccctctg tgtgctctga atatgtcctt gtccttcctg acccatctct gaccagctgg 360
gaacctgctt ggggtccccc tcaaacctgt gnctggggtg tgggctcaca gatccctatc 420
agcctggttc gtgggganggc tcttcctaaa gggaccccca tctctaagtc actctgaaag 480
ggagttgtgg agaggagacg ccctncaaac tcttcagaag tntntgagga cttgaactgg 540
gtcactcggg atctgngtnc gaaatccttc ccaacccttt tcttttgggg gagntttcct 600
taaccctgct ngcttgnaan ccaccaaang gtttttgggn ggcctntcct ttttcttcna 660
ttttggtttt aaaagggcaa ntngtnccaa aaaagcccat ttcccnngaa atgcccaaan 720
aacccanggg ggccttaatt ttnttaaggg ggaaagggna aggttcnggt tttcccaatn 780

gntttccccc ttcccg 796

<210> 2869
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2869
gacnnntgtg nangnncgtg gaaatgncct ttctnnanga nncccntgcg ntncgaattc 60
ggcacgagaa tacacacaac atataagaca tggcantttn ctgtttatgt tatcaggttt 120
aaggcttctg gtcaacagta agctatgagt agttaagttt ctgggggggac aaaaatttgg 180
ttgtcaactg atgggggggc ggtgttggca cccctaaccc gtgcactgtt gaagggtcaa 240
ttgnactgna tttatatatg ccancagctc tncaactgtg gtctgcagat ctcatgaggt 300
ctcctttcag gggacccaca tgggcaaaac tatattcata ctactactaa agccatttgc 360
attttccact gngttgatat ttgcctgatg ttgcaaaagc nntggtgggt aaaactgccg 420
gtaccttagt gcaaatcgag tcaanggcac taaacgtata nttgccatta gatcctctct 480
tcancattct gtgctngcag ntnaaannтt aataagccng ttttacntan gaatgtcctt 540
aatgaagcaa ttgaaatgac taattttatt aaaatctnaa gccttgagta tatatctctt 600
tcaatattct atggaaataa ntggnaacta tncattaagc atttctgcat gcaaatatgg 660
nactgnnttg aagnaaanct ctgcgggtnn cnaattgcna accttgaact acccattgat 720
acttggatgt gcaggctncn ggacaacc 748

<210> 2870
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 2870
tttnnatgct ggttgtcgtt ctntctnnaa gatccnngcg ngncgaattc ggcacgagcc 60
cagaatgaac atgcagcccc cccaagtaat cctgtgatcc cagggtttca agatagactt 120
ttgagttttt cacagtctgt cttaactcag caagataact tgggacttca gaaacagttg 180
gatctacaaa gagaagttct gcattatagc cagaaagccc aggaaaaatt gcttgtacag 240
agacaaacag cattgcagca gcagatacag aaacatgaag agactttgaa ggatttcttt 300
aaagacagtc agataagtaa gcccacagtt gaaaatgatt taaaaaccca gaagatgggg 360
cagctcagag actggtttcc taatacacaa gacctagcag gaaatgatca agaaaatatt 420
aggcatgcag ataggaacaa ctctgatgat aatcatttgg cttcagaaga tactagtgcc 480
aagcaaagtg gtgagcatct ggagaaagat ctggggagaa gatcctcaaa gcccctgtag 540
caaaagtcaa atgtggtttg gacttaaacc agcattgaac ttagtgctat acaagaagta 600
gagtcaccag caattggcag aacttctata ctaggtaaac caggtattta tgaagacaga 660
gacccccctgc gagtcttaat taagcccgag acaaaggttt ttttgggagc ccctggccat 720
ggatcccgtt angttgnctt n 741

<210> 2871
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 2871
tgnnagagta nngnnnggta cttgctcttt ntnnangtag cccgtgccat tccggagggc 60
actgccctcc tggaagagat gcattaggat cggtttgcnc agtaatacct ttacatgann 120
ccatttngag aatgatnacg ggccaaagnt aacgggtgna ctgttangnc ancatggact 180
nngagaangc aagggtnang gtgaccaggt ctggcanagt aannagcctt ncgntnnaag 240
ngnacctgnn ccngacccnc agaggatngt naccantnng actgnaggaa tgannennngt 300
nnggntgatn tntctncatn gannccataa tctaatgcat gattangaga nccaaatngg 360
ctgctcntta anngacatcc canannctat ctgatcctaa tgcggnncat nctngatanc 420
ttagtgctnn taaacgncgt gntcatacat nnactnatgc ttnggcnanc cactcnnngn 480
tgttangtna cntatgtann ncnngacngg anacttctnc tctgtgnagc agtcatcaca 540
tctntacang nnctangtnt antatngctn tnaacncggn ntgtagttga tactggagca 600
tggctttctn ntnacactgc attgctgtca catcttggct gagcnnagta atgtccgtcn 660
agncttaata natcntngaa tgntgggcna tcgcctggag ttccangatc ntttggagtc 720
cgtcnacttt tatnt 735

<210> 2872
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2872
agnangcgtg tgaagtatcg cccncctaan agaaggcggg cgattcggca cgaggcccca 60
gggcatncgg gggatccctg tgattttggt gagggtgagc acccaggttc cacagggctc 120
tgtcctgggc aggccagcag atgcagtgat tgcaaatcct ccttgtncaa atggaacagg 180
cacgtgcatt tgtggcacac tcagagctgc tggccactag tgngctttgg agaatcagtt 240
gtctcccagg cggggaangt ccctcagaca taaaatactc acccatttag aggaatgaca 300
acagcaaagg aaactatatt ctgctaattt actggtaaga gaggaaaaac tctgtcatgc 360
atacacatga cagaggctct gcctaaagag agaggcagca cgatacagat attagcaaat 420
gactactctc cangaagaaa cacaccagcc aggaacggna ctcacacctg naatccagna 480
ctttcanagg ccactccggt aggatggctt canaccatga gtttgagact agnctgngca 540
acctggcnga cttcatctnt accannaaat gaaaccatgc attccaacct ncnannagat 600
cantnangag acccacacct gggagtnncc agatatttca aaggctnngc angaaggatc 660
tcttnggccc aggaaaangg aaggcttgca attgaactat gatcctacca cttcactttc 720
agnccggggc nnccaaancc atgacccctn nt 752

<210> 2873
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 2873

tctangagat ggnatgtntc gnectntctc naagagnaaa ggcttggcgn attccggncc 60
aagatcgaga ccntcctggc taacacggtg aanccncatc tctactaaaa atacaaaaaa 120
ttagctgggc atagtggcag gtgcctgtag tcccagctac tcgggaggct gaggcaggag 180
aatggcgtga acccgggagg cggagcttgc agtgagctga aattgcaaca ctgcactcca 240
gcctgggcga cagagtgaga ctccgtctca aaataaaaaa ataaaatggg aatatcaata 300
gggcctattt agtagggtgg aagtatagct ctaatgagat ggtccatact ggtcccccag 360
cacataggaa gccctcaaga aataaaggct agtggtaacc tgcacagtga tgggaggaca 420
ggggctatgc agaaaaactt ggagcaaaga aacgagagca aatatgggaa aataacaatt 480
tgtgtggggt tgaacatatg gttgttcatc gtactgtttt ttcaaatttt ctgtatggtt 540
gaaaaaagtg ataatttttt gggggaaaat ctggcatgtt cccctgcacc tanggtatat 600
caaaatgtat tgacaaaatc caaattaaaa gccaaactca aaaaaaaaaa aaaaaaaaaa 660
aactcgagcc ctnttaanaa ctattagtgg agtccgtatt tacngtagaa tncnggacct 720
tggattaagg atncatttgg atgaagtttt gggacaaanc cccaactttg n 771

<210> 2874
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2874
agnngcggnn nnnngnaaat gccctnnatg caggaaccca ngcgatccgc ctggtggtag 60
ttaccacaac acatgcctca ttaagaaaca ntttncatca gagggaatgc ctgcctccct 120
gntaccagct ctgcagatgt gcacatatct tcctgtcgta agccaatggg acttaaacct 180
tacctcttgt gttttggaga ctatctttta ttttttttt tttgagagag tgtctccctg 240
tgttgctcag gctggagtgc agtggtgtga tctcggctca ctgtaacctt cacctactgg 300
gttcaagtaa ctctcctgcc tcagcctccc gagtagcttg gactacaggc gtgcaccacc 360
acacctggct aacttttttgt atttttagta gagacggggt tttgccatgt tgcccgggct 420
ggtctcgaac tcctgacctt aaatgagcct cctgcctcag cctcccaaac tgctgggatt 480
acaggcgtgt gccaccatgc ctggctaatn tttatatttt cagtagagac gagggtttgc 540
catgttggcc aggctggnct cgaactcctg acctcaagtg gtccacccac cttggcctcc 600
tagagtgctg ggattacagg gggtgagcca ctgngcccgg gctcttttgc tttcttaaaa 660
gactttggtc gggtatttgg gntggatgga gtattgngtc tgggtgnggg taattcgann 720
cctnnnttng tnnggggggt anag 744

<210> 2875
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2875
tcaanannca gctcttgttc tttttgcagg atcccatcga ttcgctgaga tcggccactg 60
cactccagcc tgggtgacag agtgagactc cgtgtcaaaa aaaaaagtcc caaactgttt 120
ggctttattt aggcagtaaa tattctactt cgggatgacc tgtcatggag ccagtaaggc 180
ctctacaaat cacatcccaa acaaatacaa ctcagatgag caaagtaagg cccagatgaa 240
atgacatctc gatctcttct atggcagaaa ctcagcaaga cataatgaaa caaagatagc 300
taaagttcat tatttaatgc tctactccca agagaattat gggactttaa ggctactcac 360

taacatacaa aattaccatg cagatatggg gggaaagtcc atgtccagaa aaaacttggt 420
ttgcaaacct tagaactatg tcattgcagg attatgtgtg tgtgcccgtg tgtgtgctca 480
caggctttga agagttttat gagtatccat tatccaaaat gcttggaaac agaagtgttt 540
tggattttag attttgaaat atttgcatta tacttaacaa gttcaagttc agcatncaaa 600
acccaaaatg ctccagtgag catttccttt gagcatgtca gtacgcaaaa agtttcagat 660
tttggagcac ttaagattta ggatttggga tatcagcctg cataatcaaa ccttcttcat 720
tcaggaatgt aaaangaggt ttaatatgag cttan 755

<210> 2876
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 2876
agcgncgccg ntgaactgaa atccccttтc ngcaggagcc catcgatncg aattcggcac 60
gagatcacct gatgtcagga gttcgagacc tttttggtca gcaaggtgaa accctgtctc 120
tactaaaaat acaaaaatta gccaggcgtg gtggcgtgtg cctgtagtcc cagctacttg 180
gggaggctga ggcaggagaa tcacttgaac ccggaggcag aggttgcagt gagctgagat 240
cttgccactg cactccagcc tgggtgacag agcaagactc catctcaaaa aaaaaaagaa 300
gatggaatta gctgagtttc atggctgctt gggaggtttt ttgcagacaa agactccctc 360
tctcacccag actggagtgc agtggcgtga ccctaactca ctggagcctt gaactcctgg 420
tctacggtga tcctcctgct tcagcctaag tagctgttat tggcatgagc cactgcccct 480
ggctcacatg gctgcttaaa tggaagagtt agcagttgag actgagaaac atgaaggact 540
angtaagtat ggggctccca gatagagggc agcccacaaa cgagataagc agaagctgcc 600
caaaggggga aggaaagaca gcccagacag gggaatgtta agaagaagac tcaagccaac 660
tcaaggggtt taataaaaan ggagcctaag ctctctttaa nncattcacc caagccatat 720
gggatttcag caaacttggc cctgtcccaa gggacctccc ttttggcaag g 771

<210> 2877
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 2877
tnnnttttgac ncnttncnag gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagct gggagcgaga cggtggcccg gnccagcccc atgggccaca ccggctggtg 120
agacgagagg atggggcagc aggggaccgg gacctgcggg cagctgtggt gatcaggacg 180
ctgaggagcc aggaggcctg cctggaggcg gtgctacgtc gactacaggg acagtgtcgg 240
caggaactgg ccaggctggt gggagcccgc cctggtctca tctggatccc gccacctgga 300
cgctgagggc ctgtcgacgg gccctcgtgt gggaagcctg ccctggccca gcctggctgg 360
gtcttggagg ancagattcc aaggccaggt ggccgcangg acgatgcaga tgcagagccc 420
acgtnacatg ctcgctccag gggtggggct gggctgactc tggccggatc ccaagcctgt 480
ggctagcagc actggggaca ggaatggctg gtcccttgag gaggtcntga caggctcaac 540
ctgntggtct ggangggact cggaaataaa ttgtancagc tttccttgcc aaaaaaaaaa 600
anatnnannn nncnntnnnn naaanaaaaa aactcgagcc tttaaaactn ttngngaagt 660
cgtatttact tngaatncca aaacnttgat taggatncct ttgnnnnaat tttggganca 720

aaccncaaac ttnnnaatgc cnntnnaaaa aaaaagcctt ttatttgggg gnaaaatt 778

<210> 2878
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2878
tgcatacaca cgcttnggaa ctngccctct ttctgcagga tcccatcgat ncgcgctctc 60
cctttatagt ttctctataa aaactggttt taaaattagt ggaaaagggc aggttgaatc 120
aaggtgaatc aatctgaaat tgagcacacc tgcctgccat cgctgttcct tcaactgagt 180
gctgcacatc atgggctctg tctgtgagag aaaaatcccg gtgcttggtg tccttgcatg 240
acatggagtt ttgcatgtag atcantttaa aatgtacctc ttgtttacat aatttgcata 300
attttaaaag ataatgttgn cnaactntgg aaatgttaat gttcagactg aaaatctcca 360
ctacatgtaa ctctcttcct ctggatcact ggcatggntt ataatcccag ccagtggttt 420
gaactgntcc antgtcaact gccatgtgct ctgcttcaag ggggaactag ccttttgnga 480
atttttgcc ataagtattt gttacnaata ttttagcaaa tgctttctat tnctctagct 540
tgtgcatatc ttggctgggc gttacagaan nnatagngta cccattatnt tncttaccgn 600
ggaaatgaag ggntantncc tttccncttt tantccggtc cnnttttna ctttaatgta 660
nagggnggtt gggataaagg gaanggngat gnangaagcn ttaannnacc tnaaatttct 720
tgaaccccnn caangncnnn ngggttcntt tttaaccccn aannn 765

<210> 2879
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 2879
cntgntnnnn nttcaancct ggnaancgcc tttctnnann agancggtnc gntttagaaa 60
tagaactcct gtagatgtgt agaaagantg atggnaaaga gaaaggactg atgtccttct 120
tttcattgaa aaagatattg tttaggtcct acaatggctt aggtatggtt tgagactctg 180
gggttacaaa gcaaagaaaa cctggcctct gccctgctca gagaacagca gggatacagc 240
atgttagcaa ataagtatat agtgtggaaa ggtctgtagt caatagcagt cattttgaca 300
ataggaaaag gaatgtgtga aacttctggg tctgtgtgtg tgttggggtt ggtgggtcaa 360
gggaggggat ccaaagatgg tttcactaag aagggaaaaa caccggacct gagacttgaa 420
tgcaagtaga attttgccag gcagatgatc tgttcttcca ggtagataat ccatcctggg 480
cagacaaaac caggctgtag aaggaacacc atgtgtggag caatagaaat atctcattgg 540
tactggagta taatgcatgc caagaaacca ggcaaggtag acanggggcc acccgtgnaa 600
ggaaacctct tgaaatangg ggaatggata ttcatcacat tttccattgt ttaaggacca 660
aattgggaan aaagtttnaa tantccaaga atgttaagga aaaagnttaa atgggaaggg 720
gaagaccaaa tttccaaggt ggnttccaag cccnaagggg attgacncan ttcccttaan 780
ttttggaaaa ggnccnggggg tntttgggaa a 811

<210> 2880
<211> 771
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 2880
gagattttcc ttaactgcaa tggctactcg ctctttccgn agcccatcga ttcgctgggt 60
catgaaataa cagattaaaa atgttctctg gtaattttaa ttaaacattt ctgtaaatgg 120
aaggaaaaga aaaagatttc agagagtctg atcaataata gcttgtgggt cctagtgagt 180
ggagcagtgt ataaagaggt aaggtttttg agggaaaaaa atactatgtc aaatgggggg 240
tgaatgataa aaatcgctct cattttcctt tttttcacct ttcatcttca tttatggaat 300
ttctatacaa taaatntgnt tggcatttaa taacagtgcc tctcccccgg aatactgttt 360
ttattttatc ttacttaaca aaatattntg tagtggttct gtgccaagtg ctgttctaag 420
cactttgcna atattnnttc acntaaccct ataaggtggg tcctgtttta tgcctctttg 480
ttcgnttgcc agcaattaat gaaactgaaa cagtgcttgt ccaagacacc ntaagnagta 540
aatggcatag ctggaatttg gccctnaagt cagtcctctt aaccactgng ctcttctgtc 600
tgctaatgga aaacccttat aaagtggtga accanaaaaa gccagaggtc tgggtttann 660
ntnccatttt nggcntttta aaaaccgggn tttttgcctc ttgtcccccc aagaanttgg 720
gggttttcaa tggaaccttt ggntcncnnc cannggggge tcnancnncn g 771

<210> 2881
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 2881
acngcncgnc cancngntng gaantccccn ctctgcnnga agcccatcga tncgaattcg 60
gcacgaggng aggcatnttg gcntnaacnt gcgcttttta cagaagttat gtgccactgt 120
ggaaatngct ggaaatacaa atgcaaaaga aaacacaaat ctctgncatt ctgcagaaac 180
agcattctnn ngaccccntn nggcttattc tatagatgta tatccttgtg cttacagaaa 240
cttgatcata ttattntatn actngcnggt tcatntaaaa atatcatgaa catcttnngt 300
gacatgacat gtctcnnctn tnaatgagng catagacnnc caaactacaa atcttccata 360
ctcngtgnan agnnccctcca ctgcagtcca ncctgggcaa cacantgaga ctccgtcgca 420
aaaangncaa nagacgngct attgacnnca attttgacnt tggatganng tggcantaat 480
ntgantgccg taacancgaa tgcaggaggn gagaggaana nacccggagc ccaagttgna 540
ttgggaaagt ggntcaggcc attggtantg naaaaatcat aattcncang antttganat 600
gggagaaatg cgggcnggac ttgaccgnat ctnactgaaa ncgnanactn cancgggaag 660
ntncaaggcn aanngntcat tttaaacccc anggnnttcc angctggnaa ngannncccng 720
ggattgnncc nactnncctt ccaggcctgn aanaacaaaa actgnnct 768

<210> 2882
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 2882
gcnttcctaa acccttttgnt ntcgctctnt gcaggatccc tcgattcgta aagttacact 60
taaacagtga tacatagatt gccagatntt ttttggaagg gctttgatta attaggcttc 120
agggaaattg tgaataaaaa cataaatctt gcaatagggt aggggaaaga aaataatccc 180
actcctgaag tgatgaaatg aagagtggct agagaggaga aaagaaccag gacaggtgat 240
atattagcaa ctgtcagtgt gaataatcca gggtatgaca tttctaattt agcctcacat 300
ttaaggtcat ttctgattca acctcaaatg atccttctag cctactgctc ccctaaatat 360
taatatattc tttgtgccag tcacagtgta ttaacatttc cctgaaaaca tcttaagcat 420
ttttttaac ctatgtgact tttgccttct tccatctcaa ccttttaaaa tcttacctac 480
ctgtccctta cttcatcaaa tgtttctaat tatttagaaa caacttctaa atttcctaat 540
atatatgtat atctgngttg agtatgtatg tgnnataact aaattagagc taaaatattc 600
ttttattagt atgaaaattt gtgnaattag ttgatttatn ccttcatata tctctgggag 660
aaaatctctt ggtcaagcct ggtagccctc agagaacttt aaagttttat tgattctaat 720
nttatgtatg tatgcatgna tgc 743

<210> 2883
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 2883
gantcagctc tgttcttttt gcaggatccc tcgattcgtg aaggacctgc ctgcggctgc 60
tttacagttt gtttgttttt ttttaaaata agtagaagat atacactaaa gtaatgataa 120
atgtatagta tagtaaatac acaaaccatt aacagttgtt tattttcaag tatatgtact 180
gtacattaat tgtgtgtgct gtacttttat acaactggca gcatggtagg tttgttcaca 240
ccatcttctc cacaaacctg agaatcgtgt tgttgcactg caagtcatta agttaggaat 300
tgttcagctt cattataatt tgtgggaaca taagatgtcc ttaaatagca cataactgta 360
atgtgttttt tttaacatct tggtttttttc agcagctatg ttagtatcca gcagataact 420
ggcactctgg acatttgatg ggtgaaaata ttcacggttc attcttttct tcgaatgagc 480
cccaataatc attgcctcct gaattcctct atcaatattt tgcctatcat ttgacatttt 540
tagacattta aaacttctta gtaagatagg acattactgt aagagcattt gtctgcatat 600
actatttcag ttttttttccc ctttgtctga gttaattctc tatctactgg tcacagtaaa 660
gagttccata acatactaca cttgcctaaa cagatttaac ctctggcagc tcatctgact 720
gaacacagta agtaagg 737

<210> 2884
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 2884
acntngttct gtnncngaan nccctnnctc naaaancnag gcggtgcgtt ntcagccacc 60
tccactgact cctacctcca aagntnatac tttttagacc ttattttcct aaggatgagg 120
ntagtangag ggctgcttnc cctcagcctg gattactgct ttggcctaga agatgaagat 180
ggcatatgtg gttatgcctt gggcactgta gatgtgaccc ccttnattaa aaaatgtaaa 240
attncctgga tccccttcat gcaggagaag tataccaagc caaatggtga caaggaactc 300

tctgaggctg agaaaataat gttgagntnc catgaagaac angangnact gccanaaact 360
ttccttgcta atntcccttc tctgataaag atggacattc acaaaaaagt aactgaccca 420
ngtgtggcca aaagcatgat ggctngcctc ctgncttcac tgaaggctaa nggctcccgg 480
ggagctttnn gagaagngag accanatgan anaagaattc tggaatctta cagcangtta 540
agatggtntt gaaattgcaa aaaaaggaag gatttncaaa aggatgnngg ctattacttt 600
ggtcnggaac cctggggacc aattcnttga cactgggnaa ctgntncaaa aagtctctta 660
actgcaccct nggnnnantg ggtaacttga agggcntcca taacagtcaa gccncnagaa 720
atgggnacca aaaccatncc aannggantt cgcaaccnan aaagacnnt 769

<210> 2885
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2885
gaancanctc tgttcttttt gcaggatccc atcgattcga attcggcacg agattgaatt 60
ttctgataat tgaagcttat taattgtcta aaattatctt aagatatttt ctgatgtaca 120
tcattttaaa atgagttgca cacatttcta ttctgtttca acatattcaa tataattttc 180
gctcttgttc atctgttggt attcattata taattcanac gtggtctcag gtctggagac 240
atgtgaagtt attgctccta cactgagtgt ttccatgtca ttatgcctta atccttattt 300
agacacagct atgataccct ctttacaaca taaaggataa gcaaaaggat gtataaatgt 360
atcctgggct ggaaagtggc attattgact ggccattggc catcagcaaa ggggcctgag 420
tggaaggata tgaaaggatg ggtgtaatgt agatgacngg ttgatgggtg cagcaaacca 480
ccatggcagg tgtataccta tctaacaaac ctgcaggttc tacacatgtg tcccanaact 540
taaagtatag ttaaaaaaaa aaaggatgan tggtgagcac agctgacaca ccccacgaat 600
atctgggggg ctttgagaan gttgctgana tccagtaatc atgtggcaag tttcagttat 660
ttttattgag acctcttggc tcaataggct gttgaagtcc ttggaactcc atcaaaggtg 720
ggtttcccaa tcctncatga ctgcng 746

<210> 2886
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2886
acngcgnncn ctgaacngga aatcccctnt tgcacgngat cccatcgatt cgaattcggc 60
acgaggtgat agagatcatg ccgcttgggt tnttttnttc tccccctcgt tgtaattcag 120
caggcttccc agtgtgccct gcatcctcat ctgtgaggcc gacttcacta tcattcccac 180
ttataggtgg aggagactga ggcacagagc tcccaaagcc ccacagctgg cgagtggcag 240
ggctagcgtg cgatgtccac tagactggtg tctgacgcag aagctgcgct tctcaccccc 300
gggatctgga agataattct gatgtgtgag atccaggaga atgcattgtt taaccagaaa 360
atgttttgta actgcatttt tgtttttgac agaaatgtga ctgcccactg aatantgagc 420
attggaatta gagaccatct agctgccggg gctgggntgg gtcatcttgc gnccnttaag 480
actgaattgg gatgctggat tccantctta aaaaccggca tggngacata ccacaaacag 540
ggtancntaa aacaacaaaa tnttttttcac aattctgaag ggtaaaaggc tgaaatcang 600
gcntgtgggc acggtgagct ccttcttgan gcanactggt cccgttcctt nccggaacct 660

ccggnnggca acaagcttgc cctngggggn ncccctgnctt gganccctgng ttaaccccan 720
actnttgncc ccgncttnat ggggnancc 749

<210> 2887
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 2887
gaatnaatcg cttggctact cgcnctttтc tgcaggatcc catcgattcg tgtggcccca 60
agagtgggag gagtgggctg tcagtaggcc acnttntaaa tatctgtgtt ctggctgacc 120
cccatatgct aggatactgg agatgaggaa ctggagaagg tgcttaaaga gcacatctgt 180
ctggtagagg acacagagct gtccttcaag catttgaacg atgttctcat ttccctggaa 240
tcttctcctc tccaggctca catctctagc tccttcaatg attcctcttg cgacatcatt 300
ttagttctct tccccaacct agtctttttg cttttaatga atgatcactg atgtatagcc 360
ctgatgacat ctggtgtcca cagtggtgcc tgatgctccg ggtgaagttg aagtttgacc 420
agtaagaggg aagaaagaat ggctcctccc tcatttcaga gaatacatcc tagtcacaag 480
tgcccctaat gtcactcagg tttttgatag ctacattccc tcactgatcc agtagaatac 540
actaccaact gatgcaccat cttgattaac aacagcaagc cttcccttcc ttnctcaagn 600
atctctcctn acatggcttc catncagatt tgcttttaac ctgccacttt ggaangggcc 660
ccccgagatc attttaatta aacacgttat tagaactggg ttaataaggc tancctctat 720
gtctctgcna atatttccaa gc 742

<210> 2888
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2888
nggtttnang accttggnta angccttttc tgcaggancc catcgattcg aattcggcac 60
gagctctttt cttgcttagt gatggcatcc attttaagga acaaacctgg aaatgctgag 120
caaagaacac ataccttca tttccaaagg ttcatttccc actcttactt tagattgaca 180
atgagttgta gttcaaaggc tgccctgcag ggaagctcat ataccctata atttaaaggg 240
cctcagacga ctcttgggaa acttggtaaa acattctatt tagagacatg cctgctgata 300
tgacatatat ttttatagtt ataccccttt attgctggga cataaaacct gttttcactc 360
aaaatgttcc tgctttcaga aaatagaaca agagacatgc agaaaacagt gattctatta 420
ttgtgtatta tgacttttgt tttatagttc tcttttccaa ctcatctctt ttccctgcag 480
ctgtggaatc tggacagcaa aatcttgtgg acgtttattc cactaagccc agggatgaga 540
tggcactcan gttaaagaac taacattttc tgaaaccctt cattactttt taccagcatc 600
angccctctt aagttccaag tggtaagaaa cccttcattc aaatctttac ttccgncant 660
ncccatttcc aagcccttct attatgaacc aaaatttcan gaaaccncta gggatgcccc 720
ttaagaaatt ggggttacat ggttggnccc aaaaa 755

<210> 2889
<211> 717
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 2889
cnaaanatnn ctggngnngc gcgttttgaa ctatcaacta gatctgggaa gatagaacag 60
gcnttntcag attgccttgt ttacaaagtg tcatcacgaa aagtgttcct ctaggaaggc 120
ataatatgtg gcctgatgga tttgatgagt agattgtaaa agggttggga ttctggcaga 180
acaagaagag ataactaatt agtggaatta actgagaaaa gagttcatta gcatgttggc 240
tattagactc taataaaaat gggtgtgaaa agatgggatt tggacctaga ggcagtctta 300
gagccataat cctttttttc tccttttgtg aaagtgacag gtacttctgg tctgagtcca 360
taaatcagct atatctaaat ggaaaactat atcccactgg gatggtaatc acccttttga 420
tagaaaggtt agaagccaga ttcttcaaca gaaatggaac ttatcaattt aattaagatt 480
cctcaacagt agatttttag gtcagtggaa cccctgtgta aagcgatgtg ctactgcatg 540
cctagaatcc tatatcactg atagctgaaa aagaggcana gcacttacca ttttcattag 600
nctgtatncc cttggaatgt aagccctttt tgaangggaa atctactcag gangctgaag 660
cccggaaaat nacttggaac ccaggaagca naaggtttgc ttgtnacccn aaaattt 717

<210> 2890
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 2890
cnaaanatnn ctggngnngc gcgttttgaa ctatcaacta gatctgggaa gatagaacag 60
gcnttntcag attgccttgt ttacaaagtg tcatcacgaa aagtgttcct ctaggaaggc 120
ataatatgtg gcctgatgga tttgatgagt agattgtaaa agggttggga ttctggcaga 180
acaagaagag ataactaatt agtggaatta actgagaaaa gagttcatta gcatgttggc 240
tattagactc taataaaaat gggtgtgaaa agatgggatt tggacctaga ggcagtctta 300
gagccataat cctttttttc tccttttgtg aaagtgacag gtacttctgg tctgagtcca 360
taaatcagct atatctaaat ggaaaactat atcccactgg gatggtaatc acccttttga 420
tagaaaggtt agaagccaga ttcttcaaca gaaatggaac ttatcaattt aattaagatt 480
cctcaacagt agatttttag gtcagtggaa cccctgtgta aagcgatgtg ctactgcatg 540
cctagaatcc tatatcactg atagctgaaa aagaggcana gcacttacca ttttcattag 600
nctgtatncc cttggaatgt aagccctttt tgaangggaa atctactcag gangctgaag 660
cccggaaaat nacttggaac ccaggaagca naaggtttgc ttgtnacccn aaaattt 717

<210> 2891
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2891

gagtacgang ggcanaactg gaaaccccat nnctnnanga anccanngcg atgcgaattc 60
gggcacgagg ctcttctctg tgcccttat ccgnttttc cagctcacag cactgacaac 120
cggtatcatc tccaggctct ccggcacctc tatgtgctgg ccgcggagcc caggcttcta 180
gtgcctgtgg atgtggacac aaacacgccc tgctatgccc tcttagaagt tacctacaag 240
ggcactcagt ggtatgaaca aaccaaagaa gaattgatgg ctcctaccct tcttccagaa 300
ctccatcttt taaagcagat taaagtaaaa ggcccaagat actgggaact gctcatagat 360
ttaagcaaag gaacacaaca cttgaagtcc atcctttcca aggatggggt nttatatgtt 420
aaactccggg cgggtcagct ctcctacaaa gaagatccaa tgggatggca aagnttgntg 480
gctcaagact gntgctaaca ggaactcnga agccccgggc tttcaagcca gaaacaatct 540
cagcattcac ttctgatcca cacttctggc atttgctgaa nattncngca agccaactgn 600
gaacatgggg cagaaaacag gaaantctgg aactcttttc ttcagncccc atgaaagggg 660
tacccaggag acccaaaaaa gttgcccgnc atacataaca atggacaggc tataagaaaa 720
cttgggaaaa naaaaatgtc tgat 744

<210> 2892
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 2892
angttatnaa acccttttgga cncgctcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagatcacg cccagctaat tttttgtatt ttttagtaga gatgggattt caccgtgttg 120
gccaggatgg tcttgatctc ctgatcttgc gatccacccg ccttggcctc ccagagtgct 180
gggattacag gcatgagcca ccacacctgg ccacagaagg gatcatttct aaatagcata 240
gaatcacagg gagtacacct catgtgactt cacgtttaga gtcagcattt gctcataatg 300
aattacatat cagtaaatga acatgacatg cttcaacttc aataatatta aacaaaactc 360
tttcagtgtg cttattcata gacgaaaaac agggcctgaa aacccagtgt gacttgggtg 420
tcatatatct tcagtttgga tgcactatat cagtgctaat caataaaggc caggaatgat 480
tttggagtat aatgtccagc cttaaatctt aaatgaaagt gaaattcaaa cacttagccc 540
agcagtagaa gaacaaacac tagtgagaca agtataaatt tgntaagacg aacatgggcc 600
agatcccatt atctaatata tggggtccct cgacagtatg taccgtctnn gaanaggaag 660
naaatattca aggtncccaa atggagccat ttccttcaaa agacaggccc aaggagcttn 720
tgaaaanaaa anccaagtgt nggccaanaa angaaggggg ccct 764

<210> 2893
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 2893
gnntnnnnnn nngnnctngt ctttttgcag gatccctcga ttcgaattcg gcacgagatt 60
tcctgaggtc tccccagcca ggctgaactg tgagtcaatt aaacctcttt ccccaataaa 120
ttacccagtc tcgggcatgt ctttattagc agtgtgagaa tggactaata caagtaccat 180
taataaattt cacaacgtag attaaatgtg caaattcctt gaaagacaca aattaaaaaa 240
tgacctgaga agaaaagaaa cttgaataga tctgtatcta ttaaagaagt tgaaattata 300
attagaaacc ttttgaacat tagaactcca ggccccttgt tgtgaattct atcgaacatt 360

taaagtagaa gtgaggccaa ttttacataa gctcttttag acaataaaga aggaacatgg 420
tttatgtgat tattaccttg atgttaaaac cagacttaag accttacaag gaaagaaaac 480
tgcagttact catgaacata gatgcaaaaa tacctaataa aagtttagca aattctatcc 540
agtaatatat aaaaatgaca attcatcatg ttcaaatggg ggttatttta agaatataag 600
ggttgcttta acatctgaaa gtcagtcagt attaattaac catactggta ttaataacct 660
agnaaaacca ttttggagca tttcaataga tgcagaaaaa gaaatttgac aaaaatggcc 720
cat 723

<210> 2894
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 2894
tacaagctct tgttcttttt gcaggatccc atcgattcga attcggcacg aggagaggcc 60
atggcccgcc agaccgtant ctcagacaca gagctgagta ttgttgaatc atctgtgatc 120
agcttgctgc aggaggcaga aagtaaatct gaacttagtc agaacatctc tgcccgggaa 180
cattttgtat ttaccgatat tgatggccaa gtgtatcatc tcactgttga aggaaactca 240
gtaaaagaca gtgctcggat tccaccagat ggaagtatgg gtagtattac ctgcatcgct 300
tggaaaggtg atacattagt gcttggagat atggatggaa atttaaattt ctgggacttg 360
aaaggcagag tatccagagg aatacccaca caccgaagtt gggtgaggaa gattcgtttt 420
gctcctggta aaggaaatca aaaattaata gcaatgtaca atgatggagc tgaagtgtgg 480
gatactaaag aggttcanat ggtgaacagt ttaagaagtg gcagaaatgt gacctttcgn 540
atattggatg tngactggtg tccgtcaaat aaagtgatct tggnctcaga tgatgggtgc 600
atcaaaagtc ctanagatgt ctatgaagnc tgcgtgcttt anaatggatg aaccaagagt 660
tacccgancc ttgtntgggg ccccctatct ccttgttnca agggcctntc ttgccttgaa 720
agccctttt attacacc 738

<210> 2895
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2895
gtttaagcag ctctngttct ttttgcagga tcccatcgat tcgaattcgg cacgagggga 60
cgtccangat caagaggcca gcagattcgg actccgctga gggctgtttc ccgatccata 120
gatggtgcct tctcgctgta tcctcaatgg tagaagcaca aacaagcaag ctccttcctg 180
cctcttttat aaggactcca accctgttca tgagggctct gcccccatga cccaatcagc 240
tccaaaggcc ccacctccta atactgtcac cttgggggtg agaattccaa tgtgaatttg 300
caggggggagt gggggacaca cacaaatttc ggggccatac cacccttcac cacaccctcc 360
tgcgctcagg gtggcttgca gtccctggcc cttctggtgg gcatttggta tgtcctttct 420
cttggggtga tttctgatgt ttttactcta tatagtgaaa agctagggag agcgggtctt 480
ctccccccctc cctctccagt cccctcacaa tcccagatgg gttctaatgc agctgctggg 540
gcctgatgcc ctgagttgtt tgtgattcaa taaagaatcc ataagaaaaa aanaantncn 600
tnnannnnnn nnnnnnnang naannannnn nnnnnnnaan nggnannnnn annnntnaan 660
nnnnnnnnan nnnnnnnnnn ntnntnnnnt nnnnnnnntn nntctcnncn 710

<210> 2896
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 2896
gtnatgttgc natgctnttt gcaggatcca tcgattnggg aaccaggggc tgcagaaccn 60
gcccntcccc aatgaggacc ccctntggac gcccctcccc atggagaaca ccaggagcca 120
cagaccccag accacagagc acacagggga gggcacgggg cggccggggc agggtgtctg 180
ctgcctcgtt tatgggattt gctccgcgtc tagcacactg ctgcctgcag tgctcctgtc 240
ccctgcagtg gctactctgg gcctacgggc ctaatcctgg ttggcatgaa aatgtcctga 300
ggctactgtg acaaatttcc acaagctgag tggcttaaag gaacacattt gttctcttac 360
ataggggctg aatccggtnn ctgnctttta tagtatctgg agggcgcctg catccnctng 420
cttatggccc ctttcatcac caaanccagt ngtgtnacat ctttccacct nttcctgacc 480
ctgacctncg ccctttctct taaaaggacc ntgtgtnact ttgggcctac ctanntnatt 540
tagggtattt antatttaag gaaccctgna ttttaatncc actggcnagn acctttgcc 600
aggtnaagng acaaattcca agggttttag gatnaaaant gg 660
702

<210> 2897
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 2897
gtcaaagctg ntctcgnatg ctgcggaccc tncatgnncn agtgccttcc gnaattgacc 60
cangctggga gctattnaca catgtccatg tgggatanag agngcatgan agcncannan 120
cccancctgn tggtnacact tgctcatctg aggnctnacc tggatancan anacctaatc 180
catggggacn nnaancacct aatgngctnn tntgtaacca tccnnntggg tgaatnaccn 240
gaggncgagg antngacnac ctctgtgacc cacnctggga tnaannggtg ctantataan 300
tcgntgctgg cttgactcct gtgcctaagt gatcctcctg ccttnactng ngactagtna 360
ggactanngg ncnacaccgg cacacntggc taattgctta aantcncann nttntnnntg 420
ganacgggan nntantgngn acgncnangn tggncatgaa cttttggcct taagcagacc 480
ttctgntgcg gcctnntaaa nngnnnggat tgatccnctn agncnnnncc atggcncata 540
nnattancta naggtttaat nttaggtgan tttnaccgta tattgaaatg cncaantctt 600
aactgccagc cnttaaagaa ntccnatnga gatgtaatcc atatactnta gaaannntgtn 660
catanttcac catgcnttat ttgnagggtg accanttcan gggttattt 709

<210> 2898
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)

<223> n = A,T,C or G

<400> 2898
ngttaagana cagctctgtt ctttttgcag gatccctcga ttccgaattc ggcccgaggg 60
ctattaaaaa tgtaatcagt gtgaaaattc atgccatctg aatcgtacga gtatgtaagg 120
gatttgagtt ccttacagaa ttttctgtaa tttagtactt caagtgactt ataaatgtat 180
atacttctct ctcacaaaag tgttaggaga aggaaaatct taaatactag cttgatttct 240
taatttaata acaaaaaaca attctcataa catgtatcac ctaacatgtc actttcactt 300
taaaagtcta aagagttgag gtttatttct tttcttttaa agttgatgtt tatgttggtg 360
atttcgaaaa gatcagatcc cccgttatga aggatcttaa ccttgtcttt tagatctcca 420
tgagaaatgc agtacatgta gcattagcca tatttctttt ttagaggcct atgtaggata 480
tttataacct gtaaaagttt gatgacttca tgctcaggag aaagcaagta attacctagc 540
caagccaggt gggtgttcag gttagtggta aacagaaagg agatgttgaa agatttcata 600
tctaaagggt aaaaacacan gagaagtata tagagataaa catgtaaagt ataagactgg 660
tacatagtaa gctcctncga agtggcagcc attggtatta tttttctgg 709

<210> 2899
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2899
tgtntatagc ggctctcntc tttttgcagg atccctcgat tcgaattcgg cacgagctct 60
caaatagaaa tgggagataa gaantatatc tgtgcaatat taaattgaaa aanggnaccc 120
ataaaaagtg tcaaaggcaa ataatttgct ctagatcaca aaactagtta gcacaaggct 180
aggattataa ccagggtcta ggaaaaaatc ctgaaggtga tttaactgag tgttaggccc 240
tgtcaagcca cctgctaagg ctcatggtct ttcagactag cttcaacatt ccaaatcagg 300
caatagctac aacggaaaga taattggacg gggaatcctg agatcagagt cctagtttgg 360
ctttgtctct tgtagcagga ttttttaaat caggggcagc tctcttntcc catcccagcc 420
atgaatcttt caaccttagt ggtcaccaac ttgactccat tccttatatc aagccttgtc 480
ctgtcaattc tcccttaaat gttaagttgc atccatttct aaatatatcc atggccatca 540
ccctagtgaa aagactatta cctnacaccc cgcnctttga tcttcccccn nctttttaagt 600
gactcaattc cttatatnac tgccncaaga ttaacanccn tgtccatctt tcatttctct 660
gctgaaagat ntcanggggt cccctgantc caaatannng ttcgatccct 710

<210> 2900
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 2900
gnttntcaag tgacangann agctctggtc cctcgattcg cagaaaacta gcaggttaca 60
ttttataggc tattgtagtt ttatttacca aatgatattc tctaaatcac ttcgaccaat 120
aaatgtattc tcctccttaa agcagagttg tatcaactct gtgggagcat ttatgagctg 180
tcagtcccca cacttctagc cagaatcaca ataaggtctg gctgggtgtg gggtgctgca 240
taggaaaggg tctctggaga agcaagaagg gcacaatcat ggcccactgc tcccctcttc 300

ttctcagtgc tctttgccct ctcctgctgc gtgcttcctc ttcactccag tgctgatcct 360
cctgctctct ctggcagctt ccacctcacc cgcccctctt ccacactata accagtatgg 420
ttggtgctgg ggcattgact cagcccccct gctttctgca tttgtaatag atattaatat 480
gatttcctaa aacagaagat tttgttgctt tctttgaact tgtattgaaa accatacagt 540
ctcactgttt tgctttaatt cctatccaca ctataaatgg aagaaaaaaa ttaatagctt 600
ctgtttaatc tgatgaatgt ggctttttt cccttcactt taatgttcaa gaagttggng 660
gctatttcat agattcttct ggattaatct gggggtccct ggtatctg 708

<210> 2901
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 2901
tttttacatc agctcttgtt cttgcaggat ccctcgattc gccgnattgg gctatggaat 60
tggaaggcct gttttggagt actctaaatt aaaaaaaagt tatatttgta aaataaccac 120
cacaagattg cctgattcac agttcttctg agtattggcg taggtaatta tttaagatgt 180
ttgataaatt gtaaaatgct ttttacattt tttaaggaat caattgaact actggaaacc 240
agtatgtagt attcttggca ggtctaggtt tcataatcct aatttctttg cagcccacta 300
ttcagaaatg tagtgattaa cagagtcaag aatgtttcag gatatttttg gctacaagta 360
acaataccta actaaaagtg acttaaataa taagcagttt gttatttcac agaatgagaa 420
gctcagagcc agagagttac agggttggtt cagcagttca gtttcatcaa gaacataaga 480
cttgcttact ttaaagctcc tctgcatgtc agcagagggc tgccccaatt ttagatacca 540
acatctggcc aaagaagagc agggaatgct tctttaagta cttattaggg agcaaaactt 600
ccttaaaagt ctcataggag gtttttcctt aggtctcatt ggatctcaat ggctcttgca 660
tctagaaaaa ggccacattc cttactctgg catttaagtt tttataccg 709

<210> 2902
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2902
ggctnnttnn ccttgttnct ttntgganct nnctgatccc tcgattcgaa ttcggcacga 60
gaggagatng ggacagagca tcctaagatt caggagnttt tnctagtcac agggagcngt 120
gctattcaga ggccccaagg tnnganggag tttggnctgt ccaaggaacg caagaaggtc 180
antgcanctg angcanagta agtctgaang agagaggtca gggctgagat canggaggtn 240
gtctgaggcc cctctgaggg ggacctgata aangggtttg aattcattnt gaantgtaat 300
angtccatat tagaagcana aactataaaa ggagttangc tgataaacct agggntcata 360
acagcacgaa aaaggcaata gataatanga cacaagcaan aaaaaattca cgtgattaaa 420
ataatacact tgcagagctt acaaagagaa atgtnagtna tccaggaaat ctantngcat 480
ctaagncttc attcatctta ccagataaat gaaatgctna aatntnagtt gcttgcatac 540
ntaacacaca gatattcttt tatatacaca cattcatgtc ataaancatg tgangnttat 600
cnanaagaat tnanaatnct tgtgatgagc tttacttacc ataggtcata ttataatgat 660
taatgagggc atttgaaatg tatttcacct atcttgagat ttgcaanatg ngtatgaaac 720
atgtcatatc atnactatgc actntaaaag ag 752

<210> 2903
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2903
gtcttcttca agatgnancg ctttcgnccn ttgcaggatc ccatcgattc gaattcggca 60
cgagaccatt ttatttttg ggccattacc ctttacccct tattgctgcc aaaaccacat 120
gggctggggg ccagggctgg atggacagac acctcccccc acccatatcc ctcccgtgtg 180
tggttggaaa acttttgttt tttggggttt tttttttct gaataaaaaa gattctacta 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc gancctttaa 300
aactntagng agtcgtatta cgtaaatcca gacntgataa gatncattga tgagtttgga 360
caaaccncaa ctagaatgca gngaaaaaaa ngctttattt gnnaaatttg ggatgctatn 420
gcttnattng tanccattnt aagctgcant aaacaagtta ncancancan tngcnttcat 480
ttnatgtttn aggttcaggg ggaggtgtgg gaggtttttn aattcncggc cgcggngcca 540
atgcattggg cccggtaccc annttttgtn cccttnagtg agggttaatt gcnccccttgg 600
cgtaatcatg gcatagctgt ttcctgngng aaattgttat ccgntcacaa ttccacacaa 660
catacgaacc cgggagcata aagtgtaaaa ccctggggtg cctaatgagt gagctaactc 720
acattaaatt gnggttgngc tnactggccg ctttcaa 757

<210> 2904
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2904
cttanacaaa ntcntgtgac ttgctctttt tgcaggatcc catcgattcg ctcagattaa 60
gggtttgaaa aacaaaccga aaaagatggg cttnataaag ccagacttga ttgacgttga 120
cttaatcaga gggtcaacat ttgccaaagc aaaacctgaa attccatgga catctctgac 180
tcggaagggg cttgttcgag ttgtattttt tccattgttc agcaattggt ggattcaggt 240
tacctcttta agaatctttg tttggctgtt actactttat ttcatgcaag ttatagcaat 300
tgtcttatat ttgatgatgc ctattgtgaa cataagtgaa gtacttggac ccttgtgcct 360
tatgctactc atgggaactg tccactgtca aattgtgtct actcagataa caagaccatc 420
aggaaacaat ggaaatcgaa gaagaagagt ttcgctcttg ttgcccaggc tggagtgcaa 480
tggcgcaatc tcggctcact gcaaccgata cctcctgagt tcaagcgatt ctcctgcctc 540
agcctctcaa gtagctggga ttacctgcgt atgccaccac acccagctaa ttttttttt 600
tgaatttagt agagatggga tttcaccatg ttaatcangc tgatctagaa ctcctgacct 660
cangtgatcc acccgcctcg gtcttccaaa aggactgggg attacaggcg tgagccactg 720
gacccagccg ctaaactttt aataaggatt 750

<210> 2905
<211> 751
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2905
cntnngnaga ncctntttga cnagcncttt ttgcaggatc ccatcgattc gttttgccct 60
gctaaaatga tgcttagcct gaaaaatcgg attttnactt ctcaaattta tttttccaac 120
tcagtaatta aaaaaacatt tacttcctgc ctactgggtt gtggaatatt gtcaggatct 180
ctgggttcca ggtgagggat gcagaatgca gggaaagaca ggtcccctgc cctccagaag 240
tcggtggcgc cttttcagag taacacacac tggagcagac ccctggaaaa ggacagtcca 300
ctggtggacc atgaccttgg tcaaaagagg gaccaggtct ggcttgctca ctgttttgca 360
cccaagaagt atttgctcag ggaatgaggg ggttagattc ctcctcattc attaccattc 420
ttactaggca gaggcctcat tgggattaaa agacaggaat gtaactctct gcccactgat 480
agggaatgtg tgtttgctct ttgtatccca ggggtgtgat acctctttcc tgtggtcact 540
ctgcacttaa gatattttgg ggcctggcac ggtggctcac gcctgtagtt ccaacacttt 600
gggacgccaa ngtgggcaga tcacgangtc aagagatcga gaccatnctg gncaacatgg 660
tgaaaccctg tctctactaa aaatccacag attanccagg cgtggtggca agtgccctgt 720
aatcccactt cttaggaaaa ctgaggcagg a 751

<210> 2906
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2906
tttttaatcc ttgctcttgt tctttttgca ggatccctcg attcgcagag tcaacatgga 60
gcatctcact gtgaaatgat ccatggattg aaggatatgg taaaatgttt atagtttact 120
ttgaaagtaa aatatactat gtcttggttt tgaggatatt ggatacaaaa ctctcttcct 180
ttagggctac tgagtcttga ttcctgatca tcagaaattt caccagaaac aacttgcttc 240
caatataccc aattctatat gaagaattca tggagagtgt actggcactg gaagagttca 300
gtgtttcttg tatgcttgaa aataaagtat gtactgnttt gaatgtgaaa annnctatnt 360
aaananactc nagcctntag aactatagtg agtcgtatta cgtagatcca gacatgataa 420
gatncattga tgagtttgga caaaccacac tagaatgcag tgaaaaaaat gctgtatttg 480
cgaaatttgt gatgctatng ctttatttgt aaccattata agctgcaata aacaagttaa 540
caacaacaat tgcnttcatt ttatgttcan gttccaaggg gaggtgtggg aggttttcta 600
atnagctgtc nactatnccc nttgcnntnt tatnncaccn aatttttgnt tcntttnaan 660
anaccctatt tccnggcntn gccctanncn nggttnnaan tgcnttcccn tnaannnatc 720
ntncttgntt tggccttccn anaatgcngg gan 753

<210> 2907
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 2907
gcntnnaaga cccncttgga aattcccctt ttgcaggatc ccatcgattc gaattcggca 60

cgagcagcgg cgaggtctgc gggaggcatg ntttttagct nnggacgagc gccggcgggg 120
ccccgcggca ggggagcagc tgcagcagca acacgtctct tgccaggtct tccccgagcg 180
tctggcccag gggaatcccc agcaagggtt cttctccagc ttcttcacca gcaaccagaa 240
gtgccagctt aggctcctga agacgctgga gacaaatcca tatgtcaaac ttctgcttga 300
tgctatgaaa cactcaggtt gtgctgttaa caaagataga cacttttctt gcgaagactg 360
taatggaaat gtcagtggag gttttgatgc ttcaacatct cagatagntt tgtgccagaa 420
taatatccat aatcaggccc atatgaacag agtggncaca cacgagctta ttcatgcatt 480
tgatcattgg cgtgcccatg ccgactggnt accaacatca gacatttggc ccngctcaaa 540
ggttcngagc tngctaaccn tannggggaga cngnnnaacn tggncaaatg anatantcaa 600
ngccacattt acggnncnan aacaacacca ccaaacttgg ngngcgaana nanannccct 660
ctttnnnatn cnggnnnnnn nngaacnnca ancncaanna anaagcctnn anaangcncn 720
nnganccaan nnnnnnnnaa aannnnnnca ancnncccnn nnnccntnnn nnaaggancc 780
c 781

<210> 2908
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(699)
<223> n = A,T,C or G

<400> 2908
ngttaagacc tgctcttgtt ctttntgcag gatcccatcg attcgaanaa ttttatggac 60
ttctatggat atttcttgat gcttagagat ttgtttttt aattgcaaat gtgaattgnn 120
tatttacnaa tgctattaca tatggagcgg gcctgtggtg tatggcacta ttccttggac 180
taatggtacc caggttccat tctctgctca gctcggtggc tctagacaaa gcccctaaaa 240
tgctgtctgc ttcagtctcc ttaatggtga agtggaaatg aatacctact gtcacttaac 300
tcatggagat gctggactga taattagatc atgtaatagc actttgagct gtattgaaaa 360
atatgttgtc tcaaattaag tagagtctat ggttttgnaa atataaatat attgccagaa 420
aatacatcac tgggggagca aaacatgtag accaaatata acagggatta gnaacatcag 480
taaacatagt tgggaaaaga tggcactaaa gaaagccaag aagaaagtgt tgctcttgtn 540
aaccaaataa aaaaaaaaaa aactcgagcc tntanaacta tantgagtcg attacgtaga 600
tncngacatg atnagatcat tgtgagtttg gacaaccaca ctagaatgca gtgaaaaaaa 660
tgctttattg tgaaattgtg atctatgctt tattgtacc 699

<210> 2909
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 2909
ggatccnatn gcnggatccc atcgattcga ancccgcncg agtctaggcn tganccattg 60
cncccanccc aggtttttaa tnnaannnna ancntgctga gnntnnaang ngaaaagagg 120
ccagntgtgg tggctnctgn ctgnggnccc agctnctccg gaggctggcg catgaggatc 180
atttnngccc aggctgcaat gcaanggcac nnatcacggc tttctgcatc cttnacntgc 240
tgggcnggac acggagaccc tgtttatnaa ngatgaantg ctggagtacn caatngnata 300
tgnnanataa ntncaactnt nntaaagnan ctgtatatnn aatgagtgga agcanatntg 360
gcanactgtt aatngtacat atattgaaac tatagctttn acacttcttt gaccacaacg 420

ggtatatgta ncacttgata tgatgcacaa tnngtgcacc anntatatnt ntgtcttntg 480
acntgggttt tgacnnagnt tcactntgcg tncagncttg angntgctac tnactgaaga 540
tcggngnaaa atnntcnnct ncactgggnn gattanaana tatactggng ttatcantgg 600
aagaaangtt ntntacccaa annnntngaa ccctctttta aaaggattgg ntnnagtaaa 660
ttttaccgnt nggttcccct acnttntttn caggnttccn ttttggnnng agttttngnn 720
ccaaacccc 729

<210> 2910
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2910
ganggctctt gttctttttg caggatccca tcgattcgta aatgttgaaa ttaactagac 60
aaagtagttg aagtcctgat gaaaagattg ttcagttctt cttctcctgt agctcagaac 120
ctgtttggat catacattta aatgtagaaa tataaagctt ttagaagaaa acataggtga 180
aaacctacaa gacaaaactt ggtgaagagt ttctccatgt gatgcaaaaa catgatccat 240
agaagaaaga aatctgtaaa ttggacttta tcaaaattaa aaacatttgc tttgcaaaat 300
gccctgttaa gatgatgaaa aaacaaacta catactggga ggaaatactt gaaaactgct 360
tatctgacaa aggactctta tctaggatat ataaaaacta aaaactcaat agtaaaaagg 420
caaacagtcc aattagaaaa tgggcaaaag atattcattt cgccaaaaag gttatacgga 480
tgtcagctga acacatgaaa agatgttcag catcactagc ccgtcagagg aaattgaaaa 540
atgacatatt acccacacac ctattagaac agttggaact cttgcttgaa ccccangaag 600
tttaaagacc cggcctgnaa caaccaccan gccaaggaac cttgtcttaa aaaaaaaatt 660
aaaaatttaa aaaaattagc ggacccaatt ttggaaattg gcntgggcaa aaggaatttt 720
tgaaagaaaa atcangaact tcttnantna c 751

<210> 2911
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 2911
tgggnnnnnn ttntnnnnnt acangctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agaagatgtt tgattcttca gataactttt gaaatgtgct ataaagggcc 120
tagtttaaaa ggaacttctt ttgaaaagca attaacagtt gataaagggt taaataaaaa 180
ttatctagta aggaatttct tattggaatg taaacgtggt tctaatttta aatagacagt 240
gatataaaga ataaaaagta aacagtgaaa ttgagttctc cagggaaaag gcagacctgt 300
ttagtaaaaa aaggatgctt ttttcagtga tgtctttttt tgagtgcata tgtgtgtgac 360
tcttgaagaa atccatgttc agatttatca gatgattgaa gtgggtgttc tgaataaaga 420
aagctgtgag gcctgaggca gtgacgtatc aggaaacata ttttattgga gatttggaag 480
ctatagtaaa acataatggc aataagccaa cttcccagtg gtaaacccac agtggtggtt 540
tagttactaa cctcttgatg accgaggagg ttaataattg gatattgcag agcagcaata 600
tgtaacctgt gtgtaatctc anggccctca ggttaacagt ttcagtnaga agctaagaga 660
acactgacaa aatttagctt accatgacta gctgccagtt ttatgtgggc ctgtgttccc 720

<210> 2912
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2912
gnnntnnntt ttnnatnnac aggctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gtcagaatgg ggaaagtggc aggatgcagg caaacatgtt cttaatttag 120
agacagatga aggctcagga ctttcctagg cagataaaag aagaaagaag ctgcttttg 180
aaaagaggga tcaagattag gacaaaaagg gagattcagc catcagcaga acccaaatga 240
gagcctacaa agagacactg tctactcaga gtacatcttc agacatccag ggtcccaagc 300
tactgtgttt actgttagcc cttagccatt gttaagtctt actgctttat aactcttctt 360
taagaatata ttaatagtaa aattacttac tcctatatat acaacgaatc cttaattatc 420
aaaaacattt atagtcatca cctcatgatt cagtttgccc ttctctagtc caaatgaatt 480
gaagtaggaa ttcataggac cgttcctagt gaagaaagat tttagtgcta tttaaagaaa 540
gtaaaaagta tattctcctc tgatagaaat tttcattctg ataatatttt atttgnatct 600
ttttttaatg tcatggcaag aaatgcaagt tgatgggcaa gggacaatgg ctnacacctg 660
taatcccaca ctttgggang ccnanatggg ctgatcacct gaggcaggag ttccn 715

<210> 2913
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 2913
gttnnnnnnt tntnnntana caggctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gggcatctgg actaatagtg aaagagtgga atagtgtgaa actgcatgct 120
acagttatga atacactatt caggaaagac cccaatgttg tttgagaact tctactttgg 180
ctccctaaag ctgaattcaa ttcacatctc tcagaggttc accgtagaca gctttggaaa 240
ctacgcttcc tgtggacaaa ttgacttctc ctgaggtgga tcttggaaag cactagaaac 300
taaacatctt caccaggtgc tgaagaaaag tgtcttcgtt ttaattgcca agcanggatg 360
tggacatttg gatggtgact tccctgggtg gntccccata gattcaccat tgcctctaat 420
ggtgtctaca cccgtcatac taccagctga gatggtggtg ggcataagga gaatttgtgc 480
ctataccctt agtgggtctg gtttttttctt ttaattntta aattgtcnta aaatctcata 540
aaacatactg ncttcaccat ttttaaagtg cacagtttan taaccgttac tggtaatcct 600
tcataatgct gtgtggcccg nnancgccgn catnttcata ggcttctcac ttggnaaaat 660
gggaactggc ccattaacaa gaattccact cctccaaaaa aaaaa 705

<210> 2914
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)

<223> n = A,T,C or G

<400> 2914
gttnnnnntt cnatatngac aggctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag aatatatcac atcatgtaat aagcctctca gagatgtagc attgagcaga 120
ttaaggcctc atttatagaa gaattccacc ctggccatgt gggcctgaaa ctctggaggg 180
ctttaacaat gtcttgaggt cattgtcatt taaagagatg actcantggt tttatttagt 240
agaaataaat actaaataaa taatctccac agattatcca gaggggtaag ttgaaggatg 300
ttgacagata actcagtaaa ttgcgtctca aatattaata agtttattct atgccagcac 360
caaaaatatt tcagagatgc ttttaggctt ctctcaagta tgtcgggaac agaaaaggat 420
tatagaaata tttatagtag gcataaactt gcacaaaagc tcaaagtacc ttaagcaagc 480
ttgttgcaat tattcttttg gagaactgga ttaagtaatt atttcttgtt gcctctgact 540
atttaacctc ctactaaact gcccattgnt taaatgtctc ttatttagct ctgnttttat 600
cactccttaa atttaatatt ctcaaggcca aaattatagc antgatggtc angacatctt 660
tgaagacaat tanattctga gaggataatt tatatgtana attaggaata ttcn 714

<210> 2915
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2915
tgtntatagc ggctctcntc tttttgcagg atccctcgat tcgaattcgg cacgagctct 60
caaatagaaa tgggagataa gaantatatc tgtgcaatat taaattgaaa aanggnaccc 120
ataaaaagtg tcaaaggcaa ataatttgct ctagatcaca aaactagtta gcacaaggct 180
aggattataa ccagggtcta ggaaaaaatc ctgaaggtga tttaactgag tgttaggccc 240
tgtcaagcca cctgctaagg ctcatggtct ttcagactag cttcaacatt ccaaatcagg 300
caatagctac aacggaaaga taattggacg gggaatcctg agatcagagt cctagtttgg 360
ctttgtctct tgtagcagga ttttttaaat caggggcagc tctcttntcc catcccagcc 420
atgaatcttt caaccttagt ggtcaccaac ttgactccat tccttatatc aagccttgtc 480
ctgtcaattc tcccttaaat gttaagttgc atccatttct aaatatatcc atggccatca 540
ccctagtgaa aagactatta cctnacaccc cgcnctttga tcttcccccn nctttttaagt 600
gactcaattc cttatatnac tgccncaaga ttaacanccn tgtccatctt tcatttctct 660
gctgaaagat ntcanggggt cccctgantc caaatannng ttcgatccct 710

<210> 2916
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 2916
gnggcnttnt gtanangnta cagctacttg ttctttttgc aggatccctc gattngcagt 60
cctctgcata aagctgagag atgcctacag ctgagagtga agcaaaagta aaaaccaaag 120
ttcgctggga agaattgctt aagacccaca gtgatctaat gcgtgaaaag aaaaaactga 180
agaaaaaact tgtcaggtct gaagaaaaca tctcacctga cactattaga agcaatcttc 240
actatatgaa agaaactaca agtgatgatc ccgacactat tagaagcaat cttccccata 300

ttaaagaaac tacaagtgat gatgtaagtg ctgctaacac taacaacctg aagaagagca 360
cgagagtcac taaaaacaaa ttgaggaaca cacagttagc aactgaaaat cctaatggtg 420
atgctagtgt agaggaagac anacaaggaa agccaaataa aaaggtgata aagacggngc 480
cccagttgac tacacaagac ctgaaaccgg aaactcctga gaataaggtt gattctcaca 540
ccagaaaaca catncaaagc ccagccaggc gttgatcatc anaaaagtga gaaggcaant 600
ganggaagag angagactgt tttanaagaa gattgaanaa ttgntgcagc cttttcantg 660
ncatgtnact ngaagnaatg ggcaaaggag atttanaggg gaattnnnaa anancnc 717

<210> 2917
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 2917
attttatgct tgctctgttc tttntgcagg atccctcgat tcggctgggc tagcagaaaa 60
acctcaggca tctgtgagga catgagttta cacacgctga gactcacaga tncaaaaatg 120
caacccaatt ccacccctga attgagggga gtgcatagaa gtgaatgtcc cgtctttctg 180
aggtctgttg attttgtaat tagtaaacga agggtgcatt tctgattttt ttttcttgtg 240
tgctagaatt cattgctagt aaaactcaag ataatagcga tgagtaggag gtatcaaaga 300
tgaactgtag agggacagtt taagttactt aagaatcgtc agcaagatga aatctacttt 360
tagcagaaat tgggtttttt tgtgtttttt tgttttgttt tattttctaa aagtaaagtc 420
tgcaccttgt tcagcctgtt agtggaggtc tgagcaagta aaagatgggt tggattataa 480
acttacaaac acaggatgtt ctgtttctca aacgggagaa attaagaaga gatgcttgta 540
ttcaggagac ggcatagcta ctcaaaatcc ttgatatctt gctatggtta gtcttgtcca 600
actgtgctat gtgacctact atggctttat gangtaaatt tagtatatgt gtcactattt 660
gaaaatttac atatagttat acataatgna tttaagngnc nanngnacng aancctnggn 720
gnnaanattn gnnccntnnn 740

<210> 2918
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2918
cttnnaatnn cagctntggc tacttgttct ttntgcagga tcccatcgat tcggtcagat 60
ggtagaaaat gaaatantta aatagatacc atntgagttc tgggagccag gtgaagaagt 120
gtttgtttgt ttttgagacg gagtctcact ctgttaccca ggttggagtg cagtggcctg 180
atcttggcgc actgcaacct ccgccttctg ggctcaagtg attctcctgc tccagcctcc 240
tgagtagctg gggctacaga cgtgtaccac cacacctggc tacttttttgt atttttagca 300
gagaggggat ttcgccatgt tggtcaggct ggttttgaac tcctgacctc aggtgatctg 360
cccaccttgg cctctcaaag tgctgggatt acaagcgtga gccactgtgc ccggccanaa 420
ggagtgtttt gagaatggct aanagaagat aggttgaata gctatgccta catgtcacta 480
attaacatct cagagatctc tgctacaggt tgncgacctc atttagtcta atatttttcc 540
aatggcatga gtataggaag ataaacgggg aatgttttga agtaataaaa aaattccatc 600
cataaagaag aacaacatgt attaagcttt gtgcaccaaa caacacaaca ggaagacaca 660
taaggcagaa ccttttanaa aaaaaannng gnnnnccaaa nagcaggtnt 710

<210> 2919
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2919
cttnnaatnn cagctntggc tacttgttct ttntgcagga tcccatcgat tcggtcagat 60
ggtagaaaat gaaatantta aatagatacc atntgagttc tgggagccag gtgaagaagt 120
gtttgtttgt ttttgagacg gagtctcact ctgttaccca ggttggagtg cagtggcctg 180
atcttggcgc actgcaacct ccgccttctg ggctcaagtg attctcctgc tccagcctcc 240
tgagtagctg gggctacaga cgtgtaccac cacacctggc tacttttttgt atttttagca 300
gagaggggat ttcgccatgt tggtcaggct ggttttgaac tcctgacctc aggtgatctg 360
cccaccttgg cctctcaaag tgctgggatt acaagcgtga gccactgtgc ccggccanaa 420
ggagtgtttt gagaatggct aanagaagat aggttgaata gctatgccta catgtcacta 480
attaacatct cagagatctc tgctacaggt tgncgacctc atttagtcta atatttttcc 540
aatggcatga gtataggaag ataaacgggg aatgttttga agtaataaaa aaattccatc 600
cataaagaag aacaacatgt attaagcttt gtgcaccaaa caacacaaca ggaagacaca 660
taaggcagaa ccttttanaa aaaaaannng gnnnnccaaa nagcaggtnt 710

<210> 2920
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 2920
gttnntngat cagctcttgt tctttttgca ggatcccatc gattngaatt cggcacgagg 60
taccacatct agatacgagg tcagagttca gatgcctaaa tattgtagct tgtgtttngt 120
ccactgttgg gggaagagtg aagagatttg acataccata atgttgatta gcttgtgatg 180
gtttggcggc agcttaggcc agagcataaa gtaaaaagga aaagtgttca cagacaatga 240
aaactgggac caagtggtga atactcaagg cacacagacc angcaaggat cccagtggcc 300
gtggatgagt ctcaggctgg ctctgggcca ntggaacaca cctcagtgtg ggtgaaggcc 360
tagccagggt agcanagggc agggctacag aacagcagcc cangtggctg tggccgacct 420
gacattctcc tgtgaaaatc angtgcccaa ccagcactaa cctagataga tggcancatt 480
ttntttcttt aangacagga tcttgctatg ttgctcaggc tgactttgaa ctcctgncct 540
taaaggatcc tccctcttca gcttnccaaa ncactggggt tacagatgtg agcccttcaa 600
cgtnagtgcc atngggctan aancctaacc ccncattgct tgntgatcgt nacgctcgna 660
atcnntttna taaacggntn tncaancctt gagcttttcc gggttaagna ann 713

<210> 2921
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)

<223> n = A,T,C or G

<400> 2921
gttactcctc tnanatcagc tacttganga tccctcgatt ngaattcngc acgaggcgat 60
ttatttnaca gagttaaggg gccagtacac ttnatggtat aaaattatct ttntcagggg 120
atgaaggcac aaggagaaaa ttacttgaag cttggagatc ttctctggca agcaatttac 180
aaattctggt gttcttngat ctggctcccn gcccagacaa ccanggagtt nttnatgttc 240
tatcctcatg tgnnannact atacgcaata attngncntn ngccatanag gagggatccg 300
atanntgaca tngctntccn ncanatatac tncncntgna atgnnnctna taatgcatnn 360
nntnnattcc tntctaggnt acncnnantt atatntnntn ggnaactcat ttaacancaa 420
nttcacngca ttcccntggg gttacatata cnctnaagac tatgctgana ctgtgcacca 480
tgnctacatn ngggaattgg atggggtgct tnacggactn ccttgnatgc aagnacttac 540
cagacgtttc canccaanct gacattgntg naatgcatta cncacntggt gntncaantt 600
tactacacct cganaggacc gttcacnggn atttaacctn tcaaanatng ttcnnanggt 660
tacaaggtcc ccaattgtnn ganccttggg gctttgncaa cn 702

<210> 2922
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 2922
anaccnttta nnctngttct ttttgcagga tcccatcgat tcgaattcgg cacgaggtat 60
actttgacac tgagaacaaa gagacagtta tatctggaat gggagaatta cacctggaaa 120
tctatgctca gaggctggaa agagagtatg gctgtccttg tatcacagga aagccaaaag 180
ttgcctttcg agagaccatt actgcccctg tcccgtttga ctttacacat aaaaaacaat 240
caggtggtgc aggccagtat ggaaaagtaa taggtgtcct ggagcctctg gacccagagg 300
actacactaa attggaattt tcagatgaaa cattcggatc aaatattcca aagcagtttg 360
tgcctgctgt agaaaagggg tttttagatg cctgcgagaa gggccctctt tctggtcaca 420
agctctctgg gctccggttt gtcctgcaag atggagcaca ccacatggtt gattctaatg 480
aaatctcttt catccgagca ggagaaggtg ctcttaaaca agccttggca aatgcaacat 540
tatgtattct tgaacctatt atggctgtgg aagttgtagc tccaaatgaa tttcagggac 600
aagtaattgc aggaattaac cgacgccatg gggtaatcac tgggcaagat ggagttgagg 660
actattttac actgtatgca gatgtccctc taaatgatat gttgggnt 708

<210> 2923
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 2923
gnnnnnttct aatgcnnggc tnttntgcag gatcccatcg attcgctccc attcccggaa 60
ggaggagaca gttactgtct atcccgcaga cgtggtgctc tttgaaggga tcctggggca 120
gaatgaggtg gactatcgcc agaagcaggt ggtcatcctg agccaggata gcttctaccg 180
tgtccttacc tcggagcaga aggccaaagc cctgaagggc cagttcaact ttgaccaccc 240
ggatgccttt gacaatgaac tcattctcaa aacactcaaa gaaatcactg aagggaaaac 300

agtccagatc cccgtgtatg actttgtctc ccattcccag gaggtacgag acctgttcca 360
gatgaagctt tttgtggata cagatgcgga cacccggctc tcacgcagag tattaaggga 420
catcagcgag agaggcaggg atcttgagca gattttatct cagtacatta cgttcgtcaa 480
gcctgccttt gaggaattct gcttgccaac aaagaagtat gctgatgtga tcatccctag 540
aggtgcagat aatctggtgg ccatcaacct catcgtgcag cacatccagg acatcctgaa 600
tggagggccc ttcaaacggc agaccaatgg ctgtctcaac ggctacaccc cttcacgcaa 660
gangcangca tcggagtnca gcagcaggcc gcattgaccc gtcttcatcg gaccc 715

<210> 2924
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 2924
gggnctttan atctataggn tacaggctac ttgttctttt tgcaggatcc catccgatgc 60
gcaagtaaga aaacatggcg gctatccttc tctcacatcg aaaaggaaat tttgaacaat 120
catggaaaat ctnggncgtg ctgngaaaac anagaagaga aatgttgcag gaaagattgt 180
ttaanactaa tgaaatacct tttagaacag ctganagaaa ggtttaacng acaaaaanca 240
tctggataaa tnntcttctt atcatgtgaa aactgccttc tttnacntat gtncccagna 300
ccctcaanac agtcagtgng accanacnga nctggncctn tgctttgana actggatgac 360
attcttgntn nattgcctna ggtcagatnn acttgagaat tagttcatcc nnncttcaat 420
ctatcctctt gcagaattnt ttgacatnta cntcagcaat ntttgctnta ncanagnccn 480
atgtaggata tctatgacct nncanngttt gatgantncn tgcnnctgna tnnnncgaga 540
gatntcctaa cnatnncann nnntaanttc tggtantgct caacagattg gaaaaagggg 600
ccaganctgt gnctnaangg ttaaaancnc aggannagta ttttncgtaa acatgnaaan 660
gnttangact gttcatnnnt tgntcctccg aaantgggca cccnttntta ttnattccnc 720
tgcg 724

<210> 2925
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2925
ggtttanttt aaatccntnc ncagctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gcggacccat cggagcgtaa cctggatctc cgcaggcctg gcggaggccg 120
gccacctgga ggggcattgc ttggttcgcg tggtancaga ggagcttgag aatgttcgca 180
tcttaccaca tacagttctt tacatggctg attcagaaac tttcattagt ctggaagagt 240
gtcgtggcca taagagagca aggaaaagaa ctagtatgga aacagcactt gcccttgaga 300
agctattccc caaacaatgc caagtccttg ggattgtgac cccaggaatt gtagtgactc 360
caatgggatc angtagcaat cgacctcagg aaatagaaat tggagaatct ggttttgctt 420
tattattccc ttcaaattga aggaataaaa atncaaccct ttcattttat taaggatcca 480
aagaatttaa cattagaaag acatnaactt actgaagtag gtcttttaga taccctgaac 540
ttcgtgtggt cttgnctttg gttataattg ctgtaaggtg ggagccagta attatctgca 600
gcaagtagtc acnctttca gtgatatgaa tatcatcttt ggcttggang ccantngaca 660
acctgncatt actgactttt tgaaaanaac cctctggata ttgatgcctc gggtgtggtt 720

ggactgncat ttagtggacc ccgaatcc 748

<210> 2926
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 2926
tnaatanagc tctngttctt tntgcaggat cccatcgatt cgaattcggc acgaggtctt 60
cctgtgcagg gtgctttggt agccatcaga gaggaaccaa gggcaacatc ttttcttccc 120
aggcgttctt ctctgggtgc tttattctct tctttttctt tatttcgccc ccacccccat 180
cccctgcctt tnttttttt ttttgtatag aaacagatcc atttcttggt aatcaaagca 240
catttgtttg gtcttcctcc aacccttttgc atttgatttc taaacattcc ttcatatgcc 300
tttaatgaaa gccagcantt atcccatggg ccctacttga atttatctga ggcagctaca 360
gattgccctg caagatgagt ttttggagat aaatgaaata actggacaca cactcacaca 420
agtaacacca cagcagacct cggagtactg ctaagtgtac ctgtgtcaaa tccgcacang 480
actcaatata gcaattnatt cttgatgtat gcaatngccc attggaaatt atttttaaca 540
gagcnccact taattaattt ggaataggat tatataatat tagaatcttt ggggtatggg 600
nctttttaacc cttcttncca tgggggaaac ttnnttttccc ttnccctgaa tggtgngaaa 660
ttgggaccat ttttaaaaag cctttggtcc cggtgnaacc ttttggcatt acccatttna 720
aaccgnangc cnccaggntt tanagaaacc ntgaaatttg aagaaaaaaa gggccccaat 780
nggncnttga aatttttttaa cccnatgggt ggccc 815

<210> 2927
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 2927
tggnagtgnn nnnnnnttttt ataaagacag gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagcc aggcttgaag ttatctctaa tttagaggtt agggacagtg 120
acacaggaaa gaggctctgt gctttatatc tggagatgtg ggatcataaa aacgtctttt 180
taatctgatg atcattaaaa cacccggtga tgtggcacag ctgctaatcg gaatacattt 240
ccatttctgc ggggattgag catgtcttcg gaaccctctg caatagcttt agaaacaaac 300
gttcctttta tcaggtgaga aaactaccct atggcatgcc tccggatatg tagttcttcc 360
tangctacaa aatatcagag gttaacttca ggcaaaatga tnaaactagc agtagtattt 420
cctattacta tctgcagntt gcttcaaaat ttcaaaaagg tttcngaaaa atcactaaat 480
acgaagggca cacttcattc atttattcca aggaatctat ttggtgccag acattgcatg 540
gaattgtatg gatttttaaa atgaaatggg ggctctctct taagcagacc atggcaagga 600
aacttgaaaa ctccgacgca tccangggac gaagactnac atttacatng agatactact 660
cgggattcac aanacacgac gtntccatga cgctcggtca acacttgcat ttttacctca 720
tgggattcng gtcctctttc atttaaaagg cgnggc 756

<210> 2928
<211> 712
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 2928
gnnggnnnnn nnttttttana tcagctcttg ttctttttgc aggatccctc gattcgaatt 60
cggcacgaga ttgaactctg aactttggaa acctgaatcc ttcaggaaag agtttggtga 120
gcaggaagta gacctagtta attgtaggac caatgaaatc atcacaggag ccacagtagg 180
agacttctgg gatggatttg aagatgttcc aaatcgtttg aaaaatgaaa aagaaccaat 240
ggtgttgaaa cttaaggact ggccaccagg agaagatttt agagatatga tgccttccag 300
gtttgatgat ctgatggcca acattccact gcccgagtac acaaggcgag atggcaaact 360
gaatttggcc tctaggctgc caaactactt tgttcggcca gatctgggcc ccaagatgta 420
taatgcttat ggattaatca ctcctgaaga tcggaaatat ggaacaacaa atcttcactt 480
agatgtatct gatgcancta atgtcatggt ctatgtggga attnccaaag gacantgtga 540
gcaagaagaa gaaagtcctt aagaccattc aagatggaga ttctgacgaa ctcacataaa 600
gcgattattg aaggaaagag aacccnagcc tgggcacata tttctgcaag gcacgagaaa 660
tagggatttt taaaagnnta gaaacagnca aaaaccacna ccatctatnt ga 712

<210> 2929
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 2929
ngnanaacag nntttnagat acagctcttg ttctttttgc aggatccctc gattcgaatt 60
cggcacgagg ccaattccag gccctcctcc acgcagtgtg ccaccaacag acttctctca 120
actgattgat tgtccagagt ttgtaccagg ccaagccttt tgctcacata cagagtctgc 180
cccaaattct ccaagaattg gaagcccatt gagcccaaag aaaaacagtg aaacaagtat 240
tcttcaagca atgtctagag gtttgtctac cagtttgcct gacttggact cagaaccttg 300
gatagaagtt aaaaaaagac atcagccagc cccagtgaaa ttgagggaat cagtgtctgt 360
ccctgaaggg tcattaaatc agctatgttc ttcagaagaa ccagaacaag aagaacttga 420
ttttttgttt gatgaagaga ttgaacaaat aggacgaaaa aacacattta ctgattggtc 480
tgataatgat tcagattatg aaattgatga ccaagactta aacaagattt tgattgtaac 540
tcagacacca ccttatgtga aaaaacatcg tggaggagat cgaacaggca cccacatgtc 600
tcgggcaaaa atcacatctt gaacttgcta aagttatcaa tgatggctta tattattatg 660
aacaggatct atgggtngga agaagattga aaccaaaccc acnngccnta aaaggggcaa 720
ttncttgnga aacgcccttt ctcgntatga aa 752

<210> 2930
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2930
gagngnnntn ntttcnaatn acagctactt gttctttttg caggatccca tcgattcgtt 60
atagctgtgt cggtctagca ttttctttga agcatatgga acatgttctg ctactcgaga 120
taatgaacat ttccttctgc ctcaaggtac aatcagttta tgatcctggg agagcaagaa 180
gcaaggagcc agcaagtctg gacacattcc anaggccacg aggggtttta tgtcctgagt 240
cctggattcc atccaagcca tgaggggttt tatgccctag gcttaggttg tagtgcggcg 300
gggcagcctt ccacccttaa gcacagaacc tggtgttcca taggccacaa gaagttttaa 360
actctggacc caggacatgt tccaaggctc ttttcatatt atgtcagact agcaagtctt 420
gcctcagctt tnctcccaac aattggactg atgggttgct ccactgggca caagcatcat 480
gggttcttaa aacaaggccc tgaacaagca ccaaatatgt tcctgtcacc acactncact 540
agcccttcaa ctataaacat gcataggagt cacctggggg ccttgctaaa taaaatgcaa 600
cttctgattc aataagtctt aaacaggacc agaagattct gcgtctcttg gtgagttccc 660
nagtgangca gacaatgccc agttcacaaa ctcacatttt gagatacagn acctgggcca 720
tttnggttcc caatgtgctt gataaccctg g 751

<210> 2931
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2931
agntgattcc nantgaaagc ccttgtcttt ntgcaggatc ccatcgattc gaattcggca 60
cgagatggaa tgtgcgttcc acccccctgtt cagtctcacc agtggggcct gccggctgga 120
ttaccgcaga cccgagaaca ggagcttcta cctggccctc tacaagcaga tgagcttcct 180
ggagaagcga ggctgcccgc gcacggcgct ggagtactgc aagctcatcc tgagtctcga 240
gccggatgag gacccccctct gcatgctgct gctcatcgac cacctggcct tgcgggcccg 300
gaactacgag tacctgatcc gcctcttcca ggagtgggag gctcatcgga acctgtccca 360
gctccctaat tttgccttct ctgttccact ggcgtatttc ctgctgagcc agcagacaga 420
cctccctgag tgtgagcaga gctctgccag gcagaaggcc tctctcctga tacagcaggc 480
gctcaccatg ttccctggag tcctcctgcc cctgctcgag tcttgcagtg tgcggcccga 540
cgccagcgtt tccagtcacc gcttctttgg acccaatgct gaaataagcc agccccctgc 600
cctgagccag ctggtgaacc tgtaccttgg gangtcacac tttctctggn aagaacccgn 660
caccatgaac tggctggang agaacgtnca cganggtctg caagcantgg gatcccggga 720
cccagccgtg ggaacctgtg aagaaccggc ggaag 755

<210> 2932
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

<400> 2932
ananatcagc tcttgttctt tttgcaggat cccatcgatt cgaattcggc acgagatgac 60
tgagtgtata ccctagttaa aatgatcagg ggagacttaa ctgaaagggg taattgagct 120
agatttgaag gatgaggagt agcagactag tcaaagaaag ggagagaaga acatacctaa 180
acatctgatc accagtgact gagaaagtta tcaggatcaa gtggaaagag aaaggactag 240
cagagttaca ggttagagaa acaggtaaag gctactatgg acggcataat agttgcatcc 300

catgttttgt ctcttaagaa cagttgcaaa ctattgaagg ttttaaagct gtgtgttggg 360
ccgggtgtgg tggcttgtgc ctgtaatccc agcactttgg gaggccgagg cgggtggatc 420
acgangtcag gagtttgaga ccagcctggc caatatggtg aaatnccgtc tctattaaaa 480
aattaaaaag tagcccaggc cgttgtggca tgccccctgt aagtcttcaa ctatttttga 540
aaangcttga ggcnagaaag aaattcgctt tggaaccccc ggggaaagtg gaaagggttg 600
ccaantggaa gcccnnaaaa atcggngncc acnttgcaat ttcccaaacc cttggggccg 660
aaccnnaanc cnaggaaact ttnggtnttt aaccaaaaaa nnaaaaaaaa aaaggccctt 720
tttttngaaa actttttttan tnggaaggtn cnntanttta nccgttagna ttnccccgga 780
ccattggatt tanggnattc ccantttgga ttgaaaattt ttngggaacc caaaancccc 840
cccaaacnt 849

<210> 2933
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(855)
<223> n = A,T,C or G

<400> 2933
ngngtgancc nnnttttttat ncanacaggc tacttgttct ttttgcagga tcccatcgat 60
tcgctcaagt aggtttttat ttatttatta ctttatttta ttttatttta ttattatttt 120
tttttgagac agagtctcac tctgtcaccc aggctggagt gcagtggccg gatctcggct 180
cactacaagc tctgcctcct gggttcacgc cattctcctg cctcaacctc ccgagtagct 240
gggactacag gcgcctgcca ctgtgcccgg ctaatttttt gtatttttag tagagacagg 300
gtttcaccat attagccagg atggtctcga tctcctgacc ttgttatctg cccgcctcga 360
cctcccaaag tgctgggatt acaggcgtga gtcaccatgc ccagcctcaa gtaggttttt 420
aatgaatttc ttatactttt aaaatacaac attatggcan taaaagacta ttccactnct 480
tttctaatct ggagattgna ttgatttttc tagtggtaat tttctggctc atacctncag 540
taccaatggg tgaaataggt gggtttaaag taggaaaatt cttcgtncng gttttccaaa 600
actttgcagg aatnaaaggc ccccctangt ccattttnca cccatttaaa ggcnntantt 660
aagccttttt nngggnggtn ggnaagtttt tttccaattc tttgggcntt caacttgggn 720
aanncccttn aaaccccttct tttaaaagcc ttcnaaagtg ggaatccctt ncccaancct 780
tttaaactgg gccctggaaa atnaantttt gggggaacaa attaagggcc attggccacc 840
caaacccatg gcccc 855

<210> 2934
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 2934
nagttangnn gntttntann tctggttctt tntgcangat ccctcgattc gaattcggca 60
cgagancgat taacactnct aaagngtcaa gngctngggt ntttnggctt agntgtgctg 120
ccntcgngga anncatntnt ggggnaatgg tgtnatacac ctcnattana aatnagcaca 180
tgatggntgg ncaccgtggc tcacgcctgt aatcccngca ctttgggang ctnaggngnn 240
nggatcacct gangtccnga ntttganacc agcctgncca acatgnngan acctcatccc 300
ttctnnanat atanagaant agctngncat ggtggcgcac gcctgncntt nnagctactn 360
aagacgctgn ngcaggagaa nctnttgaac ccagtaggtg aaggttgcan tgagctnnca 420

tcncaccatt gcactccagc ctgngccncn agancgaanc tctgtcttat acatgcaaaa 480
annaggaggt tggattactt gaggtcatgg atnnanatca ntctgaccan catngtgaaa 540
cnctatcnct ncttaaaatn ttaaattagc cnttcatggt gacctcacgc ntgnantccc 600
atcttctggg gaggctgang caggagaatt tctagacctg ggangnngag ttcagcngca 660
nnacggccct ggatccacct gggcacaaaa cgaactntnc tcaaaaagaa attnaccctt 720
aaacttn 727

<210> 2935
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 2935
ngnnggangc tnctttcagc tcttgttctt tntgcaggat cccatcgatt cgtctgggac 60
caataatgtt ttaaaaatat attcatttga gattcagaaa acttgcacat catttgctac 120
tcctatcatc ttaacagtga agaaaactga ggcctagaga cattaagggg gttgcaggtc 180
cagagacatg tctcaagaaa gcattgctgt taaaatgtgc agttcgtggg ttttcagtcc 240
atctcttaag aaaccaagtc aatcttcccc tcaggaaaaa gaaaagaagt agcaataagc 300
aatttgttaa tatcactact tcttatcaag gtaaaaaatg cctcataatc aggcataccc 360
atgggccttg tttcacaaag gcactaagat gaggcaatgt aggtcccaaa aaacaaaaag 420
acagtttttt ggagttgctg aggttgacaa ccctagtttt atactttggt aataccagtg 480
accttggaat tacaagcttg gggttaagaa ctcaagggtt cattaagact ccctggaaca 540
ttctggaaaa ccagctttag agtcttcatt gaactcaaat ctcagcacca cagttaaatg 600
agtgagtcaa aaagaacata agtttaaaga aatttaacca nggaaccaga tgtttctctt 660
cacaccacac tgntttaaca tccagtattc gtngaccttt ttctttcccc caccatcctn 720
tggatttacc ttaggctttc caaaggcntt aatgaaant 759

<210> 2936
<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(843)
<223> n = A,T,C or G

<400> 2936
tgnnnnaatc nctaatgcna ggctacttgt tctttntgca ggatcccatc gattgggaat 60
tcggcacgag gctatttgtg ttttgttgca ctgtttttttt tgtttgtttg tttgtttatt 120
tggttggctt tttggagagg gaaatggggg tgaaatattt ttttattgtt gaatcatttt 180
gtgaatgtcc ccctcaaaaa aagctaatgg aatatttggc ataaagggca tttggtggtt 240
ttatttttgt ttgaggggga ttgtcagaaa atccctttttc tctcttacgt ctaactgact 300
agggaacaat tgttgatatg catagcattg gaatacttgt cattatatac tcttacaaat 360
aacacatgaa gcaagaatga ccaatattct gataattggc actggatcac aaaatgtgat 420
aaaactttaa atgtataaaa ctttatcaaa taaantttat tttccccttt aaaatgtatt 480
nctttagagg cattactttt ttaaaantat tggtcaattc ctgacatacg atgtgaaggt 540
tnacaagttg gatttccnag tattccaana tnaanttcct tgatttttca attaaggcaa 600
aaacgtcaaa atcccaaaan ngntnnccna taaaccaaaa nttgcnnttn tttaaaaang 660
gnttangcct tttaaatann gaatcantta attcntntat nnngcntngn nnttgnnaaa 720
attanccccc ntnnntannn tnccctttnt nttaaatttt nngggtngnn ctggaaaaan 780

atnngncccc ttgntanngg gcctccctng gcnnttanag aaaaacccaa ctnntngggg 840
gcg 843

<210> 2937
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 2937
aggtnnntaa tnttctatac agctacttgc tntttccgcn ngatcccatc gatnggaatt 60
cnncacagag atgacctcca atgtggccag cgacgagatc gcacagcacg cgctgcagct 120
gaggcagggg gctttggaga tgagccgtaa ccgtattgcc gaaaacctgg gggatgtcca 180
nataagtgac aagatcacca tctcaaanaa cttcaangan aatgtgattc accctatcct 240
gaaagctnac ttccngangg atgagtntct gggacggatc aatgagatcg tctacttcct 300
ccccttctgc cactcggagc tcatccaagt atcnnacaag gaacttgaan tnctgggncc 360
tnanaggcnc ncnnnnggnc aatnnnnatc nnctcngtgn cntnataaac actgattctc 420
ngtntgataa ntacgatana cnatatcatt ctgtnatacn caaagangtg ncaccanccc 480
tnttctcact nttgantanc tntggcngtc tnttanggtn atanagtgag ccctannaaa 540
ntcccattnn tacttgaagc atacnttttg gcnnaaaaac naggttcttg ntatcaatag 600
ctcctaanag tcnaaattnt ncattttaaa cnnnctgtta naaatttttt tcaagcnnnt 660
tantgannat tcctaatgta aaacctttтn aaaaacnaan cctttnaagg taaaaannat 720
tnttnnnttc ttttcaaaac nttntttnaa cccaagnann cnncct 766

<210> 2938
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2938
ggngtgnntt tnagatacag ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagcaa aggccgtcac accaaggtca ggccaggagc ctaggctaaa ggaaacttca 120
ccaccgggga catcagctgc tgtggccaga gaagagaaca tgaaagccca catcccgtgc 180
ctgcagccac ccactttgct gtcacttccc agctgaagtg aggagggact gttcagaaac 240
atcgaactga gcaaggtctc tgtctacctc atggaaaacc tgatctggaa atgacacttg 300
gaataaaata agattactct tccattaaaa ggaaatccac ccaaaagaga gaaatagtgg 360
tatatttcag ttttacataa taatttctag agataagata acccattgca ttagttgatt 420
cagttaccaa tttagctaag tgtgagggag aacatgggcc ttgacttttt ttctttcaga 480
aaatcaagtt tgccatattg aaaaatgctg tcagctctgc caccggttct gtcattaatc 540
atgggaaaga gctgatcang ttttgattgt ttcttcagan gcacttttgt catgtaatgc 600
atatatttca attaaaatat gcaggagaat gcaaagntaa taattnaggg aaaatnatna 660
agtgttgcca ttggctatta attactaaaa aaaaanaaaa aaaaactcga gcctntaaaa 720
ctatagtgag tcgtattacg taanatccc 749

<210> 2939
<211> 770
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 2939
cttattncat nnagctcttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gttgtattgg aaagcagtag tgtggacgaa ttgcgagaga agcttagtga aatcagtggg 120
attcctttgg atgatattga atttgctaag ggtagaggaa catttccctg tgatatttct 180
gtccttgata ttcatcaaga tttagactgg aatcctaaag tttctaccct gaatgtctgg 240
cctctttata tctgtgatga tggtgcggtc atatttatag ggataaaaca gaagaattaa 300
tggaattgac agatgagcaa agaaatgaac tgatgaaaaa agaaagcagt cgactccaga 360
agactggaca tcgtgtaaca tactcacctc gtaaagagaa agcactaaaa atatatctgg 420
atggagcacc aaataaagat ctgactcaag actgactctg atagtgtagc attttccctg 480
ggggagtttt ggttttaatt agatggttca ctaccactgg gtagtgccat tttggccgga 540
catggttggg gtaacccagt gacaccacac tgattggact gccctacacc aatcagaact 600
cagtgcccaa tgggccactg ttttgactcg gaatcatgtt gtgcactata gtcaaatgta 660
ctgtaaagtg gaaanggatg tgccaaaaaa ttaaaaaaaa ccnccaaaaa agcttccaaa 720
aaaaaacctt taaactatag tgagtcgtnt acntagatcc aacatgataa 770

<210> 2940
<211> 904
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(904)
<223> n = A,T,C or G

<400> 2940
ctacttgttc tttttgcagg atcccatcga ttgngaattc ggcacgagag gtaggcacct 60
ggcatgtcag ttgcctgaat ttgaaagttt tcacctgtat gttttggncg ataaaaataa 120
aaatgtaatt tatatatctg aatcaggtct gtatgttatg atcaattgct cagcaatttc 180
gggcagttgg tttgatggtt atgtagtaat gtancctgag agcagaaata cagagcctct 240
gggctagana aagtataaat ggcatcctag gctatgtagg gttcagctct tcagaaggaa 300
ctttcatttt tcattgtgac acatcgacta catgttgtan aagaacatag tttcannaat 360
tcttccngtt agaaacatac gtttcctcaa aatatttcac tttcangcat tgggtanaaa 420
aagtncccat gtnattngac tangcnnatn tnctttaaaa aatangccan tttnctnnaa 480
cccanngata natancccca cgtttnttta actattttca ngtcatttta acantcnccc 540
tncattttct nnnnnccnnn ggnttaantt ctcnanccta ttttncnncn canaaacnnt 600
nccnttctna cctnaatcat attttcccac tnnnncctnaa ctannnnana nancatntnn 660
attcnctcat ncnannnnnn ttggcatann ntttanacta taggcatnaa ctcnttcata 720
tnnatatnnt nctncaatnt acatnatntt ngnctanatn ttcatcnntc tattctncnn 780
nntcatnnnn taannnnttc ccnacnttan nnnntatcnn nnntanttgt tcntatancn 840
cntntatcnn tcnatantnn nnatntntan ntatcttanc ntatccanaa tncananaca 900
cgcc 904

<210> 2941
<211> 771
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 2941
tncttcaann nntggtctcg tctttcccag gatccctcga ttcgaattcg gcacgaggca 60
gaagccaatt ccttgtgaaa agctgactgc catcagtaat ctcaatagaa aagagatatg 120
ttttctggag tcataaagga attcaattcc tagggttttt gtttttgttt ttgagatgta 180
atattgctct gttgcccagg ctggagtgca gtggtatgat ctcaccttac tgcaaccacc 240
acttcctggg ttcaagcgat tctcctgcct cagcctcccc agtagctggg attacaggca 300
ccagccacca tgcctggcta attttttttgt atttttagtg gagatgtggt ttctccatgt 360
tggccaggct ggtctcaaaa tcctgacctc aagtcatctg ctggccttga cctcacaaag 420
tgctggccca gccgagattt gttttctaag atactttgtg tcatgaacag ttcagtttag 480
tgtcatgaac tattcacttc atatttttct tgnattaact ggttaaattt ttaaaatatc 540
ttgtagtaac tctttaaaat gtatgtaaag taaatggctg cagaaaggtt ttttagagaa 600
tccctgcttc catcagtaat acagcaatat tacccccaaa aaaaaaaatn aaaaaaaaaa 660
cttcgagccc tntanaacta tagnggagtc cgtnttacgt aaaatnccag gacntgataa 720
ggantccatt ggatganttt gggacaancc ncacttgnaa tgcantggaa a 771

<210> 2942
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 2942
ctnttaantn nctcnttngn ctacccgttc tttttgcagg atccctcgat tcgaattcgg 60
cacgaggtac tttgagtgtt tgggggttca nnncacacat gcaattttgc ttaacaaaag 120
tattttataa tacagtttca tacagaatta ccttaaaagg gagtcttatg ttttcaacta 180
cagatagttg taagggatca tacagaagat attgatgata gttgaaatat tcttagaagg 240
ggtgtgtatg tctagctgtg tctaccatgt gtatgtattc ttgacaagca gtataaaata 300
cctgtgattt ttctttacat tagggataat gcataaggaa ttaatcttca tatatattat 360
catccctaat gtagcagggg gaagtattta attgcccatg atatgtattt tacttatact 420
atgccagaga ggaaactata aagtaattac acatgtaatc ttgggttttt cacatatgta 480
ggtattcatt ttgagtaggt tgaagaagaa aaaaaatatt taaatgaatt gaattcctga 540
tgggatagta tcaataagta tttaaaagcc agtattctaa aaataataaa gggtagggtc 600
atttttgagt ttggttttct tttgctattg gtaatattca aaattaaagt gttcattggt 660
acctggtggc cttaatgcat ttattgnaga cagcattgag atgatgaaca aggggttagc 720
aatagccaac tctataataa ttttgcctaa atacc 755

<210> 2943
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2943
ttnanntnat nttgctattg cntnttgcag gatcccatcg attcgaattc ggcacgaggc 60

ctcatccatg gatcagggag gcacgccagg gagtaaccca gttctgccca gcaagctaca 120
ccccactaac tctgggccct gtctgtgcta tttaacattt cattnanaca ggagctcctg 180
ggaagaagct tggctcagta tncttggnag atcacccctc aaagnctccc tcnggtatat 240
tctaagtgan gacggatccc atatatacct cacttaggct ttactctgct ctgcaagcac 300
aggcaagacc agctacatct ttgnacgcca cccctggttc ttagtaggcc aagaacctca 360
gaaactggna nggcactaag agctgtattt tagaaactgt gttgaaatta catttattca 420
gctttgatct gggngggccc tgtacctggc actgctacaa gtgtttcaag aaggtgcgaa 480
ngagatattt ttacaggcaa aatagantat atttcctctn cagnttcatt tgactgcttg 540
tttaaaaaaa aatatgaaag atngtacaga gagtncccat atcccctcat ctagttctcc 600
tntattaaca tctgccatta gtgnggtgta tttgtcacaa ttaataaacc catagtggtn 660
aaattattgn tggcaaaaat ccatacttca ttcaaatttc ctctggtnan tcctaatggc 720
cttttntgct attctangga tcttatcc 748

<210> 2944
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 2944
gtnnnnntng tgtaatcgct tggctgcagg atccctcgat ggcgaattcg gcacgaggtg 60
ttgctcaang agcagacccg actccntaag gtcatcattg aatgggcatn atangtttga 120
anactgtcca ananantang ngtcaataca tcaacnnctt tanntgcttg atattgnnat 180
tgaanaacac angnctcngn ctagttcgcc tganatgatg tttaagatac tccggaagga 240
gacanantgt tntgantgcg gattaganac cacngaagnn acactnaagg ancancatct 300
ccacctngna actgnattnn cngaccanaa aagngaactg gaccaaatgc tctcaaaggt 360
gctggcagct taanagcgtg ttangactct gcacgaagan gacaggtnnt ntgagagcct 420
ggnnannaca ctctcccaaa ctaaactgna nctttcaaca nangggancc ccannttggt 480
ggagaaatca ggtganctgt tggcccttcc acaaagangc aaattctntg agggcnagac 540
ttnanccttt ttgcngaacc agtncttgac tgactaaatg aaagcttttt aagccaggtg 600
gcccancctt aangaagcna ctttttaatc cancggaacc ngcttgagan aaaaccnttt 660
ttgacccaaa accnggagaa ccagctggcc taccaaaggg aaatgggccc ccatttgaac 720
ttggggttnc ccangaacaa nccttgnccg ggncaaagcc cnttgttgga aaggacctca 780
acct 784

<210> 2945
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2945
ttcaatgttn ntnaaactct ttggaancag nctcccatcg attcgaattc ggcacgagaa 60
cagatagaga cttggtctta aaaaaaaagg aaaagatttt gaaacaaaaa attagctggg 120
cctagtggtg tgtgcctgtg ctcccagcta cttgggaggc tgaggtggga ggatggcttg 180
agccctggag gttgaggctg cagtgagcca tgattgtgcc actgcgctcc agcctgggtg 240
agagagcaag actctgtctt taataataat aataataata ataaagtggt caggaaggga 300
cccccaggga ggagcataaa cctctccagt ggctgtgatt tgtcagtaag gacatggggc 360

atctggcgga caaatacccc tacagcgata gcattttccg ggcatttgtg ggtctcaagg 420
cgccctgctt gccctcagtg gatgctttgt ccagcccgca ggcattttat ccagcagaca 480
agcagaagca gcagttttgt cattcgagcc ggcttccctg ccatggtaca ttacgtgagc 540
aggcggctgg ctgtgctgtg ctctgtggag atcacacgtg agattcgaca gcactcgctt 600
ctgcangctt ctctttcctg ggttctttta agatgaagag agaaccccga anaggcgggg 660
cttgcggaaa ggcnctggga aaaagnaatg gaatnatggn ctttaacaat ggtgccccgt 720
gaactggaat ggttctgant ggcttgccag aactcttgag tcact 765

<210> 2946
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2946
ancgtgnctt atnnacnctt tggaagacct ccatcgattc gaattcggca cgaggctatt 60
ccgaatagcc ccaggtgatc cntttacac cantttagc aatggaagtc agcacctctg 120
ctgggccaag gccatgcttc cccagcctgt ggctgcgcct ctgctgtctc tccgggtctc 180
acctgggcgg gaggctcctc tggaggccag gacctgcctt gtgagggtgc ccttgtggga 240
gaggcgcttg cccaaacctg ctgttccccg ggggctcctt ggtggccccc aggactggag 300
ctctctgccc agagtgcccc tccccagagg ttaggactcc catgaccctg tcccctgccc 360
actgtgacct ggggtttgca tggtttcctt ctttcctagt tgtggtgaaa tcatcacttg 420
tgtgtttcgt tnttcctgtt ctctgctgat ttaccgatgt atttaatgta aagtaaaaaa 480
aggaaaaaaa gaaaaangnn naaaanannn cnnnnnaann nanaaaaaaa aaaaaactcg 540
agcctntana aactatagng agtcgaatta cgtaaatcca gacatgataa gatncattga 600
tgantttgga caaaccncaa ctagaatgca nngaaaaaaa nctttatttg ggaaaatttg 660
ggangcctat ggcttatttg gaaccattta agctgcanaa aacaagttta ccacaacaat 720
tggcattcat ttnaggttca agttcanggg g 751

<210> 2947
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 2947
ntnctttntg nnntnaaacn ctttggtaag cancatccca tcgattcgaa ttccggcacc 60
gaagggcctt ccagatcgtg ctgtnccacc tacctntncc gantttngnc ttncagatcg 120
tgctgtccca cctacctgna catntgccac agttggccct gggccaaccc cacgaagggc 180
ctgggcctaa ccccttggcc tggcccactt ncagagggac cctgggccgt gtgccagctc 240
ccagacacta cctgggtagc tcangggagg aggtgggggt ccaggagggg gatccctctc 300
ccttggggct gcccctgtgg agggggatcc cgcctctaga actatagtga gtcgtattac 360
gtagatccag acatgataag atacattgat gagtttggac aaaccacaac tagaatgcac 420
tgaaaaaaat gctttatttg tgaaatttgt gatgctattg ctntatttgt aaccattata 480
agctgcaata aacaagttaa caacaacaat tgcattcatt ttatgtttca ngttcacggg 540
gaggtgtggg aggtttttta attcgnggcc gcngcgccna tgcattgggc ccggtaccca 600
acttttggtc cctttagtga nggttaattg cncgctggcg tantcatggn catagctggt 660
nctgtgngaa aanggtatnc gntcacaatn ncacacaaca tacgacccgg gagcataaat 720

gtaaacctgg ggtgctnatg agtgactacc 750

<210> 2948
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2948
ctatagacag ctacntgctt tttgcaggat cccatcgatt cgaattcggc acgagagatt 60
tcagtaaagc tcgttcgttt tgtttggttt tctttttacc tagttgctat agtgtctaca 120
gtctatactc aatacctata aaatgcagta agcatgtgtt acagaaagag gttctggtgg 180
gagagaaagg tgcgtgtgag acaggagaat tgtcttaagc atataaaaca tgtatgattc 240
cagaatttta gtatgttttg tataaaacta tttttcatta cggagactag aagtgaacag 300
agaattacac aagtgtgact atacaaattg naaaacagat actataatat ttccttttat 360
tttagtgtta tttagcttta ttacagattt ctatttttgt caaaacttca tggttccttt 420
caagatcttt tttgccaaaa cattttgata ctatagcatt gncatttgaa agtaagtgtt 480
ctanactata aaaccaatga acttctacat gagccctaca gacaggcatg tgtagaaggc 540
aatttatcaa acctattgca ctggcatgaa aagtgtgtat aataattttg ctagccccaa 600
agcaagctag ttttctttgc ttgcttcctt ttctttcntt ttttccttgc tnttnaagnn 660
ttgaancttt tttaaacatg gttgaggaat tctctaggnn ggattccttt tgggcgtnat 720
ntaaaccccc ttctttttgg gtttctggaa nacccgg 757

<210> 2949
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 2949
ncgctnctaa cnnntggcgc tatgcttggc gctnganccc tnngtnngna ntcggcncga 60
gggtnaagct tcattcantg tccattcacc cantactggt ttgattctan ggcctangaa 120
aataggactg agcaaagccc ttgtccagat ggaacttatg tnttanangg gaaaacacac 180
catatncagg tnnacagngt acnatcacga aangntaaat gtctatgaag aacattgtgc 240
agacggcgat ngngntanat agggnaaggt tnnnnnangac agcatagctt gatgtacnag 300
cnagananac anatagngaa annncctntcc atactaaggg aatgggaaat aangctnnnt 360
tttgccttgn tgaccttcaa acatgagaat tgctanagct ctgtgccaag gntnaagagt 420
ggaanacaat ntaagcttca gctacatcac ttacggccta taggccacac tgaactgtgc 480
nngnaaaact cannntgagc cangctcncn ncttaacata tttaaaggtt ctntnctgtg 540
cgcngcaaga agacnacagg acaggtncag ctntgtnncc acnnganntt gatnttgact 600
tcannngtac atattntggg ctnantntnn gantnaaaat gcgctatcnc ccataagtnt 660
ggantcntga ncatantgtn gggcntctgn cacaatgngt attatntcaa 710

<210> 2950
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2950
ggntatgngg ctntaaatat acagctctcg tngctctttt tgcaggatcc catcgattcg 60
aattcggcac gaggttaaaa gaataaaaaa ggaataattg aagccttcga gacatatggg 120
atactataaa gccaccacat atttgaatca tttgggtccc agaagacaga gaacaaaagg 180
attggaaaac tcatctattt ttttgttatt aaataataga tgaaaacttc ccaaatctat 240
caaatgattt agatatccag aaacaggagg ctccaagatc cgcaaacata tacaatgcaa 300
gaaagtcttc tccttggcac attatagtca aactatctaa agtcaaagac agaattctga 360
aaaaggcaag agaaaagtgc ctagtcagtt gtaaagaaaa ccttatcagg ctaatagtga 420
atttctcagc agaaacctta caagccagga aagaatgata cattcaaagt actgaatgaa 480
aaaaatgcta tccaagggat actatatcta gcaaaaatat tctttgtaac tgaaggagaa 540
ataaagtctt ccccagaaat tgcttaaggg agtcctaatc ctgggagcaa aatgactaca 600
tttaccatca tgaaaactta tgaatgtgta aaacctgcta atnaagcaat ccacanagga 660
ataagggaaa gtaattaaat ggtcctgtac nggaaaacca ccaaaccaaa attggaanna 720
nancttngga aaaaaactcg gcctttaaa 749

<210> 2951
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2951
gnnnggnnnn nnnnnntttn atanatacag gctacttgtt ctttttgcag ggatcccatc 60
gattcgccct gccctgggtc tggccggcgg aagctctgtc caaggtccac acacctccag 120
gtttacgcca acatccttgt gccctcccca ccttctcttc caacgcatta ggtgcattgt 180
ttaattgaaa tccaaccaac aattgtgtgt caaggctggt ttggtgcagt ggctgggcaa 240
attaattttg ggccaggatg ggggtgggtt gcagtgaggg tagggaaaat gtcaggagta 300
ggaaggttcg ggggttaagg gaagggaagg aagaccagaa ctggccatcc tcttttataa 360
tccattagta gcaccatggc tcatttgaaa tgaaaatatt acacttattc cccacccaac 420
cgnagtgaac tttctaggta attgttttga aaacaatttt tgtatctgtg aaagtctttg 480
ctttntcttt ccaccttcta gaaaagtctg ctaccagttt ccttactgaa tacagccata 540
ctcagcccct ctcgcatcca gcccgtcagg gtcanggtca nggtcangct tcctnaagac 600
tagcaccgca ttgtctgccc tcttttgcgt aggatttttc tctnaaccca ngggacattg 660
ccttggactt tctctacaaa tgcccttaga tgttagaaca caaatgattc tgnttgtgga 720
actctggctt tttgcctatt tnctttttn 748

<210> 2952
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 2952

gnnntggnnn nnnnnntttt atanatacag gctacttgtt ctttttgcag gatcccatcg 60
attcggccaa gctcagtttt tcgccttgaa tatgaagatg ctagaaagag ctctgcattt 120
aagcagagcc ttgtgcaatt cccggaccaa atgctgaaac tgcaagagtg ccctttaaaa 180
gaccttctta ggcatgtgac ttgttctcta ccagaacctt tgggcaacat gaaggaagtc 240
aaaggcattt actggcttgc tgttgctgcc tgcacagcac ctgaccctca accagcgtgt 300
ttgctcctgc ttcagtcaac tttatatgct ttggtcctgt cagataatct cggctcaatg 360
agcatttttc atgctctacc tctctctggt ctacaggaga ttcagattgg ctttggtgga 420
cagagtgttc gattcctgag ctctgcagag ggtcttctgc tcactgtatt cagttacaac 480
aaatacctct ctcaacagct gtgtcgtgac ctcctgtgtg tcctgatgcc anacctgatg 540
cccgctgcct gcgctaatca tcccttgctc cacaagatct ggttcacttt ctcttgattg 600
gaaaacagaa atccctgatt tanttttgc caaatgggag ttcangtgtc atccaaattc 660
canactaccc ttgggtgaca tgattacttt nttcatggaa atatggaagt caatgtccct 720
tccctggcaa aagttcannt actggtntn 749

<210> 2953
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 2953
ttaatanaca gctcttgttc tttttgcagg atcccatcga ttcggagaac tagtcaataa 60
ggaacaggat caacggccac tccacccagt ggcaaatcca catgcagaaa tctccaccaa 120
ggttccagcc tccaaagtga aagacgccgt ggaacagcaa ggggaggtga agaagaataa 180
aagagaaaga aaggaagaac ggcagaagaa aaggaaaaga gaaaagaaag aactaaagtt 240
agaaaaccac caggaaaact caaggaatca gaagcctaag aagcgcaaaa agggacagga 300
ggctgacctt gaggctggtg gggaggaagt ccctgaggcc aatggctctg cagggaagag 360
gagcaagaag aagaagcagc gcaaggacag cgccagtgag gaagaggcac gcgtgggcgc 420
anggaagagg aagcggaggc actcggaagt tgaaacagat tctaagaaga aaaagatgaa 480
gctcccagag catcctgagg gcggagaacc agaagacgat gaggctctgc aaaaggtaaa 540
ttcaactgga agggaactat taaagcaatt ctgaaacagg ccccagacaa tgaaattacc 600
atcaaaaagc ttaaggaaaa aggtttttag ctcagtactt ccccagtgac cagattgagc 660
cattaccaga ttcccgaaag anggaacttc ctgggtccat tnttttacca nggaaaaatt 720
cngccaagga acccttaacc ntttaagttt ntttaaangg cn 762

<210> 2954
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2954
ngnnggnnnn nnnntttnna atntcangct acttgttctt tttgcaggat cccatcgatt 60
ngaattcggc acgagatcac cttggagctc cttgagtgag ttctgatcaa gccattacac 120
tcttttcatg tagacctgcc tgtaagtgta gacatgcaca ctcagctgac cttactgttc 180
aaaagctgga gaaaaagaaa cagctttcat acagtgcaaa ctgtctacgt ctatgtaaaa 240
gaatttgaga aacatggcag tagccattgc taattaatct gggtatgtgt aaatagttta 300
acttgatttt tgactctggt gtttggatct attttaagat cgatggagtt aattgcttca 360

tgacagttct tatgaaacat gctttttat atccttgtgc caatgttttg tttacagatc 420
tttcaaaatg aattcactct gagaaataat gaaatgacaa ttgtgtggca catgttaggc 480
gttagataaa ttgggagttc tcttcttttg taagattagc tttaaatcca caattaattt 540
cagttaggag agaataagca tccatacccct atctctttaa ccctgattac aactagatac 600
ccccggacag aagacaaagc aaccacccaa agacttctga aaaggtagat agtagccagg 660
cagactgggg aagaagaaat tnaaaaccct gaacaccaat tttggcantg aggtttacct 720
gggtttaata tatttctncc caaaacttgg ctcaanaanc g 761

<210> 2955
<211> 854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(854)
<223> n = A,T,C or G

<400> 2955
ggtgnnggga aaacnggctt ttatacatac aggctacttg ttctttttgc aggnatccca 60
tcgattnggc ctcagagtct ctgatcaagc agattccacg aatcctcggc ccaggtttaa 120
ataaggcagg aaagttccgt tccctgctca cacacaacga aaacatggtg gccaaagtgg 180
atgaggtgaa gtccacaatc aagttccaaa tgaagaaggt gagtgggtct ggcgggttgc 240
tatgggtgaa ggtgttggca gggtctaaat cttatccaag tctctaaata tgccagtaag 300
agcacccacc aggattgaaa cttttggagt aaccctggtc ttggcccggg tccaagtacc 360
tgctcaccag gccactgggg gaggaaggac angccnatct gctatttgnn caccaacctg 420
acttgatcct ctcttccctc tcccangngt tatgtcttgg ntgtaactga tggncacgcn 480
aagatgacag acnatnanct tgtgtttaac natnnanacn tggctggtaa cttcttgggn 540
ntcattgttt aantanacna nttggnnnnn aangttccng gnntttatnt tattnaantn 600
aaccctnatt gttccnatac cccnaanngn cnnttttttat tannnnngnn ccnttntnnn 660
attaaaatnn nntttttatc nnnattannn nnnanntann nnnnnnaata nnnnctntng 720
naagnnatnn ttngaacnnn ttnnnnnnan ttnnnnnnnn taannnnnnn ntaatctcnn 780
nanatttgnn nntnngtann nncnttttgt nnnnacnttn nngnntnnnn annncnnnng 840
tannnnnnna tccc 854

<210> 2956
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 2956
tttnncngac nctnttnaac tccctgcagg atccctcgat tcgaattcgg cacgagcaca 60
agaaaatgaa attaaaaaat aaatcaagct ttcatatgct caactncatt ggaccactgc 120
aatcctggtg acatattgcg ggctgaagaa acccattgnn tatagtcctc ctgtcactgg 180
agatatgtgt ggtgagaaag agaaatggcc acnttgcaat ancagtggga agcaaatgca 240
gaaagcaccc agnaaagggg aagatctagg tgacagaggc catctactct tntggattca 300
tntggttctg gcacacagag aatggagctt ttgnggcaat aatttctcta ctgatgtgag 360
caagnatact tctttctana attagcaaat tattgctaac tatttgtaag ctaaaatnta 420
aaatnagngt ttaatgtaaa atttcaaaac agaagggata atncatggnt cctatacatc 480
ccataggtag taatgcattg agctaggctg tggntactcc ctcagtgtga tttgtgttca 540
cataagntct tanttggngt tgnactgnta ttattaaatn tcaagtntga cantaangcc 600

acagcangac tttagagctc naagacattn gtnacacaan cttnntggca acttttttca 660
aaacnttgna cactttatng ggnnnnaaac ttncccnttt tnnnaaacca gatcnttggg 720
gcntcaanct ntttgaancc gnanntgcnn t 751

<210> 2957
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 2957
ncgaaagncc aangccggac nggacgggaa caccctccca tcgatngcga anncggcacg 60
aggaatcttc cttaaagncc agagcctccc ttantntgga nttttgtcct gcccaagcct 120
tctcgcgggg agggaactcc ttctgtctgc cgcctgnnac atccctgagg gagaaggtct 180
gtgagctgag cccacatcac tcgntctgct gcccangtgg gcttccatct tcactgagga 240
aaagncattn ngaactcccc ggcgactgca aattaagtaa tcaaggacag atgggactgg 300
gtngaccatt ccaaggagta cagntactgg aagaatctgg aagcaatacc gagcacatct 360
gntggcatna atccattgga gcaataatgc tggacgtaga aagnatgtcg cnttttaaa 420
aaaacatcat cannnctgag catacgnagc aagngaactc taacttggaa cggangataa 480
attcntctaa aaaacaagag aaaaaaccct ncagacaaaa ttatgcancg agagctttaa 540
aaaatatana tcccacagca tnagggaaaa cactttgnct ggcnatgccc acngnactcc 600
ancctgggc cgacagaacc gaggactccc ggncccaaaa aaaaaannan naagaaagac 660
nngcattaaa gggagaaacc agncnggncc ngggcnagaa aaaacnanaa nanggcaaag 720
aaggcannnn ttnaaaanna ntnnaaagac caaagcagnc anagganaaa acc 773

<210> 2958
<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(639)
<223> n = A,T,C or G

<400> 2958
gannttcnac taatngcttg gntctcgttc tntatgcagg atccctcgat tcgaattcng 60
cacgagaagg cctgtgccng aggggttggc cagttgggag ccngngtcnt cctcatcagc 120
ntatccccat gtcctctatg cccctaatnt gcttnctcat nttggagggn ttggggagaa 180
gttggnngtg ccacccccac atccctgngg aggtgttcac ccagtctgag anccgnnagc 240
actnaggcag ggcctgatac tggacctgtn tgagctnana nctcnntgnt ngnaanganc 300
tgagacngcn gancantgct cacttgcatn gagagcccac cananagctg acacctgcgg 360
ctnngttncg natcatctnc nacntagaan tctacatatn gctgacttac nncnnnagcc 420
caagggaatc agattccanc tatcaaactn ctgattangc cnaancctct attgtnaaca 480
ggttntggcg cacntgttca tcacnactna tgcntcgaan agatgtgaaa tgnaaaatgc 540
natntctatg tntctttact catttgataa tntttnnnat gtctgcattc naaatgcgtg 600
ancttttgncc aaagcnnnta gctacctntt nttcgccnt 639

<210> 2959
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 2959
nntttncnaa tncnaggcta cttgttcttt ntgcaggatc ccatcgattc gaattcggca 60
cgagaaatca gttnttaaac tttatgtata tattntagcc agagcttaat gttttatgaa 120
gataaaggac atgaagntta acaatggaca acngntannt cagctaattg tgaggtcaag 180
naattgnaag acatacggga aggctttgtt ccacaatatt atatggacca ctgaacaaga 240
atgacagccc tttgttatca cttggcatat gaaaagtgtn gtgtgcatag gttgngtnaa 300
tttntnatgt gcntaaaaat gngatnttaa nttatatgct ctgaangata atncagggta 360
tagttaaaaa tgtacaatgt gccanntcan nntatntnac cctagccctc aaattattct 420
gattaaggtt aaaatgtgct ggcttacngt gcttnancct gaggccttct gatnggntct 480
tggnnacaga nttttaaagt aaggtgtgan ttnngcaact cntgtgctnt atntataaag 540
atatnaanta atnncatgtn ctgatatttg aaaagaattt ncccacaaat gtgttatttt 600
aaaancnatc aaagctagct acangctnaa naggctcagt tcttcntaca taatcggnnt 660
aaanattnta aggnattata anaattgtaa attactgccc aattgggtaa aaaanggggg 720
tatacatgca annaataana ctcnagccct ttataacttt n 761

<210> 2960
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G

<400> 2960
nttcntnact naagcncttt gcaacttcct ctttntgcag gatcccatcg attcgaattc 60
ggcacgagga tagctatctg acttctcaac tatgttttaa gcagatgttg taaatcctat 120
gctgtagttc atgaatctat atgacatgtg gggtcgggaa catagtaccc taccataagt 180
caggttattc ctactattct gcaacatgta aataacactt tgaacagagc aagtggtaaa 240
gattgcttaa tttttgcatg actattatga taaatatgtt gagaaggacc agctcaaagg 300
aaaacctctt ggtaactngg catangttaa atgtttccca agaaagtgca ctcttcccaa 360
ataaagcttn ctccttgaaa aanaaacgnc caggtagcca nnntnaannng atgnaaangc 420
aaaaaacnan anacacaang ctngctncag gnanngnnnc tgngctgact nttgnngagc 480
cnccangnct acggntaacc tgncngctta cnttgaatgn nactgtgncc cttgannnng 540
gaacngaaac cccntcncaa tcctgaaagn gtcntgnaag gtnnacccnt gnaaaaatgn 600
aactnccnnn ccaaannntt ccngcnnaaa nnanggnttt gnccccnnnn cnntantngn 660
ccngnnnncc aatntcctan nnncntangg tntnacnccc cnntnaaana gattttgnnn 720
aagggnttcc ccatnaacnc cnngncccca annccnggna nannnaaanc cttnnccnga 780
atnnnnnggc ctntatcggc ccccttttaaa attnncgggn nnaaaaaaca annccctngn 840
nnnnnnntaa aantagg 857

<210> 2961
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G

<400> 2961
nttcntnact naagcncttt gcaacttcct ctttntgcag gatcccatcg attcgaattc 60
ggcacgagga tagctatctg acttctcaac tatgttttaa gcagatgttg taaatcctat 120
gctgtagttc atgaatctat atgacatgtg gggtcgggaa catagtaccc taccataagt 180
caggttattc ctactattct gcaacatgta aataacactt tgaacagagc aagtggtaaa 240
gattgcttaa tttttgcatg actattatga taaatatgtt gagaaggacc agctcaaagg 300
aaaacctctt ggtaactngg catangttaa atgtttccca agaaagtgca ctcttcccaa 360
ataaagcttn ctccttgaaa aanaaacgnc caggtagcca nnntnaannng atgnaaangc 420
aaaaaacnan anacacaang ctngctncag gnanngnnnc tgngctgact nttgnngagc 480
cnccangnct acggntaacc tgncngctta cnttgaatgn nactgtgncc cttgannnng 540
gaacngaaac cccntcncaa tcctgaaagn gtcntgnaag gtnnacccnt gnaaaaatgn 600
aactnccnnn ccaaannntt ccngcnnaaa nnanggnttt gncccccnnnn cnntantngn 660
ccngnnnncc aatntcctan nnncntangg tntnacnccc cnntnaaana gattttgnnn 720
aagggnttcc ccatnaacnc cnngncccca annccnggna nannnaaanc cttnnccnga 780
atnnnnnggc ctntatcggc ccccttttaaa attnncgggn nnaaaaaaca annccctngn 840
nnnnnnntaa aantagg 857

<210> 2962
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2962
gnnnnttnna atnnnagctc ttgttctttn tgcaggatcc catcgattcg aattcggcac 60
gaggccctgt gttaatccag gtgagaacag gtagtaccca aattagggca tggtagcagg 120
gatgcagagg aaagaagagg agtangaact atttgggagg tagtattact aggattttag 180
ctttgaaggg ttgagagaaa tgtcaagcct aactacaagc aaggtttcta gtatcagnaa 240
cttcatatca tttgaaatac aaanattanc aatcaatgta aaaaacgtcc tgggctaagc 300
atagcatgaa gtctgacttc agtgtagcat tgaggagggt cctggcctca natactgcac 360
cagntgttng ntcagctntg ggcnanaaca ttagncagat cattaggnat ttttgtccct 420
tnntgcattg tccttcgtca tatatttatt aaacacctac tgtatcctag gcagtatttn 480
ccagggatgc aaagatnaat tagatctggt ngcttttctt canagtctga agttaagtgt 540
cangtttgtg gggaangtta ttctngcctt gtgtatttag tcccaactta agctntaatt 600
ttngaatntg taaaacctta tctgattata aaaaaannaa cncagtctna aananaggat 660
ggntgaatgc ataaatttaa tcttgaaaat ttaancgact ggttcttcaa aatgncactt 720
ttcatccccg gttggcttnt ggctga 746

<210> 2963
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2963
gnnnnttcta atgctaggct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgaggaaat gggtaggaac aagcattagc ctggtctggg ttcctccagc tcttaggaca 120
agttggaaca natttgctgt tctgatgatt catctttctg atcacaggga tagcataact 180

cagctttgaa gaaaggcatc tgcagagatc atggcagttc cattttgcgt tctgagtttg 240
ctcctttagg taagggaact agaatgcaga tacagttaga atcagtctct ctctctctgt 300
ttgtctgtct gtctgtcact ctctntctcc ttattgcact ganggccggg cgcggtggtt 360
cacacctgta atcccagcac tttgggaggc tgaggcatgt ggatcacgag gtcangagat 420
cgagaccatc ctggccaaca tggtgaaacc ccgtttctac taaaaataca aaaattagcc 480
ggcgtggtgg tggacgcctg tnatcccaac tactcangaa gctgangcag gagaattgct 540
tgaaacccgg gangcggang ttgcggtgan ccnaaattgc gccactgctc tccaacctgg 600
gtnacananc aagactctgn cttaaaaaaa aaanacaana aactcgagcc tntaaactat 660
agngagtcgt attacgnaga tccaaacatg ataagatnca ttggtgagtt tggacaaacc 720
ncantngaat gccanggaaa aaaatgcttt ant 753

<210> 2964
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2964
tancttnata gacagctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggggaccac tggcctgcct gacctcaccc cactaatatt ttttattttt tgcagagaca 120
ggatatgggg aaaagaaatc agattgttac tgtgtctatg tagaaaagga agccataaga 180
aactccattt tgatctgtat taagaaaaat tgttctgctt tgagatgctg ttaatctgta 240
actttagccc caaccctgtg ctcacagaaa cgtactgtat tgaatcaagg tttaatggat 300
ttagggctgt gcagcatgtg ccttgttaac aatatgtttg caggcagtat gcttggtaaa 360
agtcatcgcc attctccatt ctctattaac cagggacaca atgcactgcg gaaagctgca 420
gggacctctg cctgagaaag cctgggtatt gtccaaggtt tcccccactg agacagcctg 480
agatatggcc tcatgggaaa ggaaagacct tacatccccc agccggacac ccttaaaggg 540
tctgtgctga ngaggaggag tgaaagaggg aggcctcttt gcagttgaga taagagtaan 600
gcttctgtct nctgctcatt cctgggaatg gaatgtcatg gtgtaaagcc accattccca 660
ttcgttggat tctgaaatag gagaaaactc cctgtggctn anaaccgaga tatgctggca 720
ncaatactgn tctgntgctc tttgctnn 748

<210> 2965
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2965
gnnnttctaa tagcnagntg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagaaa ggcttagatc attgacttca gatttttttgt cttttctaac aagtgttcaa 120
gactataata taaatttccc tctaagcatt gtttagccac atttcacaaa tttggaaatg 180
tttattcatt ttcatcttca ttcagttgaa aatatttttct aatttccctt ttaatttctt 240
cttttactca cttattattt ggaaatgtgt tatttcattt ccaaatattt ggggattttc 300
aaatatctcc tgttaacaat ttctaaatta gttgtagtca gagaacatat tctgtgattt 360
caatgctgag gcttgtctga agccccagaa tatggtgcat tctgtggaat gtttcatgca 420
catgtaataa gaatgtggct gggtgcagtg gctcctgcct gtaatctcaa cactttggga 480
ggctgaggtg ggtggattac ttgaggtcag gagttcgaga ccagcctggc caacataagt 540

gaaaccctgt ctctacgaaa catacaaaaa ttagctgggt gtggtggtgg gtgcctgtaa 600
tctcgattgc acccctgcac tttagtctgg gtgacaaagc aagactacat cttcaaaaga 660
aananannnn nnnnaaaang ntnnnnnnnn nnnaannnnn nnnnnnnnnn nnnnannnnn 720
ntngnnnnnn nnnggnnntn nnnnnaannc ccc 753

<210> 2966
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2966
ggnnnnnntt gaaangnttn ttgtcttttg cggatcccat cgattcgaat tcggcacgag 60
gttacaaaca gtggaaaaca gacattttca gatgtttgca caccatgcac catgcaaaat 120
acanaccagc tgaatcataa naacaaatga ctagttactg ggagggtttt ctctctttct 180
cattattttt acttctacca aagtaatgtg cacatactgg tnattttatt cnattttaat 240
tttcaccaag ctagctaatt acctttcttt gtttttgtg gaggtgggct gtcggtcttt 300
tgtcgaggct gatctccaac tcctgtcctc aagcagtcct tccacttggg cctaccagag 360
tgctgggata acaggcgtga accactgcnc ctgacctata nctataatnn taagaagnaa 420
aatggngcaa aaaccnnaca ngagcaacct gacntnctac tntcanaaac aatcactttt 480
aactctttga actgnatctc tgntatttgc ctacttattt ctaagtaata tgcttactct 540
ncatgttatc taaatggggt attaaagctt tttnacaagc atctcttctn actatcaaca 600
ttcacattca ttacaaangg acttacaata tctttntcaa aaaaaaaaan nnnnnnnaaa 660
aaaaaaaagc ctttanaact ntanngagtc gattacgtga tcccganntg ataagganca 720
nttggtgagt ttggacaacc ccaac 745

<210> 2967
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2967
ggntntnaat ttgcagctct tgnngntctt tttgcaggat cccatcgatt cgaattcggc 60
acgagcggtg ctggtgcggc gggggactgc ggggccngcc tcaggtagca gcagcagcag 120
cagcagcagc agcagcagca gcagcagcag cagcaatgtt tcacttcttc agaaagcctc 180
cggaatctaa aaagccctca gtaccagaga cagaagcaga tggattcgtc cttttagaag 240
catctcagag gctctccagt gacgtgctgt taaaagtgct gaccctgggt cagacccttt 300
gggttggctt cgtggctcca cgacttactc tctacccttg gcagtggcgt gatctcggct 360
cactgcaacc tccgcctcct gggttcaaac gattctcctg cctcagcctc ctgagtagct 420
gggactacag gggcctgcca ccacgcccag ctaatttttt tttgtatttt cagtagagac 480
ggggtttcac catgttggcc aggatggtct tgatctcttg acatcatgat ccgccgctcg 540
gcctccaaag tcctgggatt acaggcgtga gccaccgtgc ccggcctata tgttntattt 600
tataaagtta tatgtnntat tatttacttt ttggtatgta attggttatg tcataaaatt 660
ataatataat aattccttaa ccaaattata ttccataaat tataacntat gaattcaata 720
tgcntttatt aaataaagat tctagan 747

<210> 2968

<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 2968
gctatnttna tatancagct gctcttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagggg ggacacgttg gctgcgtttt cggcgggctt cccgggtaca aaaatggctg 120
tggctagcga tttctacctg cgctactacg tagggcacaa gggcaagttt gggcacgagt 180
ttctggagtt cgaatttcgg ccggacggtg tttacgtgta attgttcacc ataggacgca 240
tgaagagtac caagcaagag gggagaggaa agcttagata tgccaacaac agcaattaca 300
aaaatgatgt gatgatcaga aaagaggctt atgtgcacaa gagtgtaatg gaagaactga 360
agagaattat tgatgacagt gaaattacaa aagaagatga tgctttgtgg cctccccctg 420
atagggttgg ccgacagaat aaatgatgtt tctcaggctt ctgaagaact ctgaaagcct 480
aatttcactc tgtaaaaaga aagtttggtt tctgaattgg gtcttttcaa ctcttggaga 540
aattccttca acaacccctg gaaaggaaga aacatttaat ttcacttttg natatccctg 600
angaatgtcc tttgnatcac cttctttgaa tagaagaaaa tgtggagaaa tctaacacat 660
gcttgcactc ttgtaggaat nacttaagtc ttctgcttaa agaaaccctt ntttagaaaa 720
accaaaggaa ctttgaaatt gtnaattgga gatgagcncn nt 762

<210> 2969
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 2969
nnnnnnnnnn ttnancagct cttgttttgc aggatccctc gattcgaaat attttcattg 60
gttatacaac tgctgtgtct tttctgagaa actcagcccc aatgtgtaac accctggatt 120
ccacggggca gcaaattcca cacactgcac ccatgttgtg agcggagatt ttcgggctga 180
ccaaaacttg aggcgaactg agtctccatc ttaacactca aacacacttc atggcggcct 240
ggaaacaagg caatcattat gaagcttcag cccagttctt ctgaaaccaa cgtattgggc 300
ctgcttcatt gtctctctag gggctaatca caaacatgtg ggaagggaag ctaaggaatg 360
cctgtctaga aagggaggtt gtataatgta gtgggaagaa cctatctgtg gggtaaactt 420
tttttgcatc atgtagaaag caaatctggg taattaaatg tttgtgtgtg tgtgtgtgtg 480
tgtgtgtgta tttangtttn nnntanggnn nnnnntncnn tnnncnnngc ccngtntang 540
nnnnnnnnng gcanngnnnn ttcnctccnn nnncananga nctnnngncn ngtnnctgtn 600
cnnnnttann nntngaangn tnnnttnnga aaacctnnnn tnnnccnttt nnnnantggn 660
nnnnnnncnt nnnnnnnnnn nnnnnnnnnn nnnacntnnn ngnnnnangn ccnnnnnnnn 720
tnnnnnnnnn cnnnnnnnnn naannnnngn nnnnnnnnna tttnnnnnnn nnnnnnntnn 780
nnnnnnnngc g 791

<210> 2970
<211> 788
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 2970
gntgtntnnt tacnactgct gttcttttgn aggtcccatc gattcgaatt cggcacgagt 60
aaacatccag atgtgttttg atagcctggg gtaattaagg ttgaggacaa gtgtaccaga 120
tcaaggagag gaacccgtcc catgcctgcc gtgtgttcag gtggctagac ttgttgttgc 180
atctgttagt tccactctta gtacatcatt gtgctgtgag gtgtcattag ccgccgttta 240
atttttcttt tgtttttaga gacagtgtct tgctctcacc ccggcttaag tacagtgaca 300
tgatcatagc tgactgcaac ctcaaactcc tgtactcaag tgatcctnct gtcttantgt 360
cccaagaagc taggactgca ggcacacacc accatgcctg gctaattttt aatttttttg 420
taaagatggg gtctcctatg ttgctcanct ggtctcaaac tcctgtcctn aagcagtccc 480
ccacctttgg ccttccaaag cactggggat tagnatnctt atnntcnnnn atanncctta 540
ntnnncnngt tttnctaaat gggtatttna acnttttnca aannttnnnn nntnnnttnn 600
nanaatncnn tttnttncnn aaggnnnttt nccanntntt ntnnnaannn naaannnnnn 660
nnnnnnnntn nnnnnnnaaa anccctnttt nnnaacnnnt tttnnnnnnn nnntntttnn 720
nnnnnnnnnn nnnntnnnnt nnnnnnnnnn nntnnnnnat ttnnnnnnnn actcnnnnnn 780
tttnnnnn 788

<210> 2971
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2971
tatntttcna gcngctcttg ttctttttgc aggatccctc gattcggtgg tcagcagtaa 60
gatggaagaa agaaagtcaa agctggaaga ggccctcaac ttggcaacag aattccagaa 120
ttccctacaa gaatttatca actggctcac tctagcagag cagagtttaa acatcgcttc 180
tccaccaagc ctgattctaa atactgtcct ttcccagata gaagagcaca aggtttttgc 240
taatgaagta aatgctcatc gagaccagat cattgagctg gatcaaactg ggaatcaatt 300
aaagttcctt agccaaaagc aggatgttgt tctgatcaag aatttgttgg tgagcgtgca 360
gtctcgatgg gagaaggttg tccagcgatc tattgaaaga gggcgatcac tagatgatgc 420
caggaagcgg gcaaaacaat tccatgaagc ttggaaaaaa ctgattgact ggctagaaga 480
tgcagagagt cacctggact cagaactaga gatatccaat gacccagaca aaattaaact 540
tcagctttct aagcataagg agtttcagaa gactcttggt ggcaagcagc ctgtgtatga 600
taccacaatt agaactggca gaacactgaa agaaaagact ttgctttccg aagatactca 660
gaaacttgac aatttcctag gagaaatcag agacaaatga gatgatggcc gatatgtcca 720
ccagatgacc agtgcctgcc ccggan 746

<210> 2972
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 2972

gntnnncnaa tgcttggctc tcgntcttnt tgntgcagga tcccatcgat tcgctaatat 60
ccagaatcta caatgaactc aaacaaattt acaagaaaaa aacaaacaac cccatcaaaa 120
agtgggcgaa ggacacgaac agacacttct caaaagaaga catttatgca gccaaaaaac 180
acatgaaaaa atgctcatca tcactggcca tcagagaaat gcaaatcaaa accacaatga 240
gataccatct cacaccagtt agaatggcaa tcatagagct tttcatttat ctgagtgttt 300
tcctctgctt gtcgggactt gtgctttcac gagctcctgc tctcatatca ggggagtgaa 360
taattgaatt tggatagttt tttggttttt agttggaaca ctccttttcc tgtggaacgt 420
ctatagaaaa aatgagtcaa acagagaata tgcaggggag gcaactctga atgcttccat 480
ggctacatac atacctgttt tctttgattt gctaaaccct aagttaaaag gaaagtactg 540
tctaaaatag ggagaaattc cctatattta taccatcatt tggagtattt acaatgggag 600
tgttttgnat tataaatgtc aaaaangttg agacaggact cacttaaatt aagangggaa 660
actttttttt aatgatggaa atangggctt aataaactta catctnctta acttctttaa 720
taattggnaa taaactatga ctggtcaaga attggacnnt cc 762

<210> 2973
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 2973
gnnntnnnct antncnaggc tacttgttct ttntgcagga tcccatcgat tcgaattcgg 60
cacgaggtga tatgaaaagc gaatgcacca tttcttggtg atgattcagg tcagcgttgg 120
gacccaggaa tctcctgtta atcagtaccc tggtgatttt gatccaggtc atcaagacca 180
tggcttccat cgtaggcagt cacactcttt ctctcttgga tcatttgctg tggggaagca 240
aactgtcata tgagaggaca ctcaaacagc ctctggagtc tcatttgcta aggaactgag 300
gactccagcc tgagaactca ngcaagtaac tgaggcctgc caacaaccat ggagaaagcc 360
tggaagtgga tcctccctca gccttcagtc gagacaacag ctgcaatgac agccaagcca 420
gcgccaccca gcttagccac ccccagagaa ctaactctca gaaaccatgt aagataatac 480
atgttngttg tnttaagctg ctaagttttg gggtnattna ttatacaata gatnattaaa 540
acacatagca tataaataaa atcaataaaa ccagtatggg tcagtaatga gttaattaga 600
taattagaca aattttgcat ttctgnttct atggtnatna ttttcttcag aaaaaattct 660
ctccgggtaa aaaatgttta aaagtggttc ccaaccggac atttttaaaa ttaattaatc 720
agtttnggga aggccaaagc cggtttggat tgcttttaan 760

<210> 2974
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 2974
gcnanagcng nctnatagct cggttggctc ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gaggaagaga actatctaaa tgagtaatgg tcaagaaatt ttaaagcata 120
atgacatgaa acaaacaacc ggtccaggaa gctcagagaa tacaattcat gacaaacaac 180
aaaaatacag caccagacat agcatttcct atatgtagaa taaaagaaaa taaaataaat 240
caataaatag acaaagagaa aatcttgaca gaatctggaa tgaaaactac attccttgta 300
gagaaaaaag agcaaggatt tcagcccact tccagtaaga aaccaggcaa gaaagaagag 360

agttgcggga aatgttaagg aataaatgca ccaacttaga attctacatc tagcaaaatt 420
atacttcaaa agcagagggg aaatcagaat ttaccagaca ataaaacact aacggaatat 480
attgccagaa aactttcctg caaatgtgtt aaaagangtt attcatggag gagaagagtg 540
atatagatca gaacctgtat ttacaataag aaagcaagta tgttgaaaaa ggaaaaaaaa 600
tgttttattt ttcttattgn aaggtctttt taaactacat ggtttggtta aaggtaatta 660
ttaagtaaaa tggttttggg gccaanttnc ccaaaaaaaa aannannnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnaaaaaa aaaaccttng ggnccttta aaaacttttt 780
nggggngngn nnttt 795

<210> 2975
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 2975
cagggnntct aatnncagct cttgttcttt ttgcaggatc ccatcgattg ggcaaatatt 60
aaatattcaa tgaatgatag ctgcctctac ttctcctttt gttgttttta ttttccattt 120
atgggngtca tttatttatt ttaatgtctt cgaaagtatt gactttaaca agtactttgt 180
gatgcattta ttatttcatt tgttattatt tatgtatttg atttatttct ttgtgaggta 240
ggatanaatc tcantcagat ttttgctgtt aggataccac agactggata actacaaaga 300
agggaagtct gtttaactcn caattctaga ggctggcgca tctaagagca tgacactggc 360
aactggcnag gatcatctca tggtggaagg tngaagggag tacatganat anagagaanc 420
accatgggct ngactccgct ntgtacaacc aaaccttnan ntnactaacc cgntcntgca 480
ataatnacat taatcccctc atgaaggttc cacccctcat gactgattna catntaatta 540
ggccccacnc tcctaanatt attcacttgg gagntcaaag ntctaacacc gtnaaccttt 600
tgnngggata ncattccnaa ccnttnccnc nattgntgnn cnaaaaagna ccnttaccaa 660
tccctttacc ctnnttgngc ntaacnccnt ttannagcgt gananntnna ctgtttcttt 720
taaaatangg ntncttaaan tnncttggan taaattttaa aattggnant atgnncanan 780
ctttc 785

<210> 2976
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 2976
gnnnnnnntt nnaaatnnna ngctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagc ctctgcgcct ggccccgggt gggtcagccc gcgtggacca cctgaccttg 120
gcctgcaccc ccggcagctc ccccacactt ttgcgctggt tccacgactg cctgggcttt 180
tgccacttgc cgctgagccc aggtgaggat cccgagctgg gcctcgaaat gacagcaggg 240
tttgggcttg ggggactgag gcttacagcc ctgcaggccc agccgggcag cattgtcccc 300
actcttgttc tggctgagtc ccttccgggg gcgacgacac gacaggacca ggtggagcag 360
ttcctggccc ggcacaaggg gccaggcctg cagcacgtgg ggctgtatac gcctaacatt 420
gtggaggcca ctgagggggt ggcaactgct ggaggccagt tcctggctcc ccctggggca 480
tactaccagc agccaggaaa ggagaggcag atccgagctg cagggcacga gcctcatctg 540
cttgctcgac aggggatcct gctagatggt gataaaggca agtttctgct tcaggtcttc 600

acaaagtccc tttttaactt gaggaacact ttctttcctg gaagcttgaa ttcaanaagg 660
caaggggggg ccaactggct ttttgggtca angggccaac aatcaagaan cnttttgtng 720
gcaantcccg ttaccangga agccaaatnt tggccaaggg aacccccagg aaaacccctn 780
aagggattgn ccccaagggg ct 802

<210> 2977
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 2977
ggcnctnttt ctaatgcttg gctactcgtc ctctangcag gatcccatcg nttcgaattc 60
ngcacgaggt gaagaagant aaaagagaca gaaagganga acggctngan gaaaaggaac 120
agngatgcga aagaactnaa gatagaaaac caccattaaa actnaaggan tccnaggcct 180
annacnctca annagggaca ggaggctgac ctttangctn gtgnggagga agtccctnnn 240
gccantggct ntgcntggaa aancatcatn aagnagnngc agcncaaggn cttctccant 300
gaggaatagg ctcaacgtgg gcnctcaggt gngaggnanc atgagcnctc cntagttgga 360
acatatccct aagngtatga tnatgaatnt cccaggagca ttctgcaggc nnttaaccat 420
angacnatnn ngctgctnct ntgcgnatat tnnnntngna nggancnatc nanncntatt 480
ttgaaacagg tcccngncan ttgaaatttc catccnnaat ttcngtannc aaggttttng 540
ctcatcctac ncnatnnctg ancagnntna nctattcnga naaggtactt acangnccan 600
cnantancat tgtagnattg cgntatnant ccccttcctt tnttaattnc cctaangnac 660
tnaanttnna anccnnggtn gataatagca acnntttcga tgtggattta antacccttt 720
gaattccaat ttttgnttgn nnattnctat acctttanca tgttgaatcc ctnnattaac 780
aattnctttа ntttggaact tcttaaccca ccttcaaatt tttngccg 828

<210> 2978
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 2978
gnnnnnttttt cnaatgctng gctactngtt ctttntgcag gatcccatcg attcgtttaa 60
aaagcatttt attatgtatt atgaaatatt tcaaacataa aaagatgtaa agactatcta 120
ccaatgactc ccccttaat aaaacaaatt aacctgaagg ctgttttgtg cccctccttg 180
attgtgcatt cacctcccaa cccctcgctc cttgggcaac tgttatcttt gttatttgtc 240
attgccttaa cattagattt ttttattact gcttttgtaa ttctaatgat atcaaatgga 300
aaaaatattt tgaatgcaac tcctctttta atttgctcca attggtatct gtatttttta 360
gtccatgcct gtattataag tattataaat actatctgtn tatacttttg ctaaagtcga 420
gtgtattngt taaactgatg atacagcttc ataagatttt angtcagcta atggattgtc 480
aatattttgn gtagaatact taccaggtta taaattacaa tttgaaacat agatatccta 540
tagttngaga atttgaacat agatatggat tatgttgaaa tcgactgcct ttntcttagc 600
tatgacagta ataaactata tnacaacaaa aaaaaaaaaa ctatanaaac tcgagccttt 660
tagaactata tgagtcngat tacgcgatcc agacntgnta agatacattg atgaatttgg 720
ccaaaccaca acttggaatg caanngaaaa aaa 753

<210> 2979
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 2979
gnnnnnnttt caaatcgcta ggctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgaga gaggaggagg aagaggagga aaatggggat tctgtagtcc agaataataa 120
cacttcccag atgtctcata agaaggtggc cccaggcaat cttagaaccg gacaacaggt 180
ggaaacaaag tcacagccac actccctggc cacagagacc agaaacccag gaggacagga 240
aatgaacaga acggagctga acaagttcag ccacgtggat tctccaaatt cggaatgcaa 300
gggtgaggac gcgaccgatg accagtttga aagccccaag aaaaagttta aattcaaatt 360
ccctaagaag caattcgccg ctctcactca agccattcgc accggaacta aaacagggaa 420
gaagactttg caagtggtag tctatgaaga agaggaagag gatggcaccc tgaaacagca 480
catagaagcc aagcgcttcg aaatcgctag gtctcaacct gaagacaccc cttgaaaaca 540
cagtgaggan gcaagagcag cccagcatcg aagagtacat cttccgattt caaggaactg 600
atgaaattag aaaaaacacc ttccngaaca ttgggatagc cttggaagca ggacccatta 660
aacaagcttg gaaaattcca attcggtgga aantgagttc cccaaaagnc ccttanttgg 720
atacctcatg gttcntttcc aacaggagaa ttctggttgc caaggttcat ttcccaccat 780
tagccccaag ag 792

<210> 2980
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2980
gannntgcta ctaatgcttg gctactcgtt ctntntgcag gatcccatcg attcgtggaa 60
aatataaaaa gtgacacttt atgcaaatgt gatggcctcc gagctgaaat gaaggaactg 120
gcaatctttc caaagtggca gccaaggccc cactccctgt cctactcaat ctctgnnngg 180
aaaaactgtg ggatangata gcagncagct ggggacacac agaggaacat tcaacaggaa 240
ggtcccgtct agggaaaagg ccacananccc catcctnttg ccgattcagg gatccttgga 300
tntaagtgga ttaaacgana gggaggaaan ctntcatttc antggtcttc aaatcaagtt 360
gaaatattac tgngaggtat cccacttnag cctgaaccag cagacntacg anagggtcac 420
tctagagtca cnaaggaaag cangtcccnc ngaatgcaac acattgatcg gaagtgnacg 480
ncncagacna agaatggccn acttgataat tacttangac ntntatttna ccggangaac 540
atnnaaatac ttttgtaaat attcatattg ntgaaccttt cataatcagg aatttactat 600
gtactatact gtnagtnata attcgcctat aatttactta atctatctcc ttntangaca 660
tatacnnaaa tgggntnctn tggaagttgc ctngtgcgaa aatgttttta aaagtttttc 720
aatttggttt ggaaaactct aacttttttt nnttttn 757

<210> 2981
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2981
gnnnnttnnn aanaacagct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggttacc tctcaatttt aacttttttt ttctttttta attaatgttt tttacccatg 120
gcaagctgta atagcttttt tgaggggagg taggtgcttg ataaagaaca gtaggtgctg 180
cttatcaaca gatgaaagga gggttctttt tcaggcaacc atctcatttg tgagtgaatg 240
gactttctct ttaaagtgct gggattgnta gtgccatttn tattgtaaat atcagaattg 300
ttattcnttg tcttctacct aagaattctg tctcttaggc tttctcttcc cagatttccc 360
aaagttggga aaagctgggt tgagagggca aaaggaaana naaagaattc tgtctctgac 420
ataattagat agggaaccan ttgggaagct gtaagaataa tgcaggtgca aggtggtggt 480
ggttnagagc cgggtgatag ctgtggatgt agaaagaatc tgaatatatt gtgtcatagg 540
gntgacctga tttgctaatg gagtagttaa ggatgtggna aagtggaatc aagcatggct 600
tcaangtctg ggcctgaaaa accgggagaa tgagtcacat naactaagac gggaaagaca 660
atggtagggn cctgtttagg gaanactnng nagaagatta ncncctcatt nctaatgatg 720
taatncatan aatcttgcan gagcctt 747

<210> 2982
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2982
nntgtngntc naatgctagg ctacttgttc tttttgcagg atcccatcga ttcgctagag 60
tgcaatgttg cagtgcaatg ctgcaatctg ggctcactgc gacctccacc tcctgaggca 120
ggagaatggc gtgaaaccag gaggaggagc ttgcagtgag ccgagatcgt gccactgcac 180
tccagcctgg gtgacagagc gagactccgt ctcaaaaaaa aaaaatctaa ttatcaaatg 240
catcccattg tgatagtcct acattatgtg acattaacct atattcctgg gtccttttaa 300
ttcccaacta ctgctcttag aggtcttagc cttttatgtt aatttttata aattcaatta 360
aataaatatt attcccaaat cttagtgttt gcagattagt tataaatcct atccaaggta 420
ggttaaaggc caccgtttta cagataaata gtacttttta tatttttatc tgaaatagtg 480
catttgttga gaataaaaga aggtatgttt aaaaatagaa tcttttgggc ctggtggtac 540
gcccttgtag tcctagctac ttgggcagct gangtggagg atctncttga gcctaggagt 600
tccagactgc actggcgtca ctgnacttca gcctgggcga cagaatgaga ccctgctntt 660
aaaaaaatat naaatngact attttatagt tgaatgttag ttagcaagtt atcatctgag 720
ccttaagtca aaattaaatc tttaa 745

<210> 2983
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 2983

gnntnttcta atngctnggc tcttgttctt tntgcaggat cccatcgatt cgaattcggc 60
acgaggctgg tgttagggtt ctttgttttt ggggtttggc anagatgtgt ttaantgctg 120
tggccanaag cggagggagg gggtttggtg gaaattcttt gctatgatgt ctntgtggaa 180
agcggctgtg catacattca attgctatta aaaaaaaaaa aaaaaaanca caaaagataa 240
nnctaatnaa anaaatnctc ataaganacn angacctttn aacntnttcn nactggtatt 300
nngtaaatcc atccttnanc ananncatnn tnnagttcng accaacaann nntngatnnc 360
cntgnaaaan ntgnttnatn agggaaattc agcgatctat tgnttnatng cgancccttt 420
ntgannccaa taancaggnn aaccacttcc atggnnttcg tnaaatnctn aaggnctggn 480
gngaannatt cngagngtct ncaatactcn gncntagagn tattccatgn cccccagnac 540
ctaaatcttt ggccctttaa gcatagggaa tttccccacc ncnccttaat gctagccatt 600
ntctgtttca tnccncaaat ttgnacttcc cataaccact tccaaganaa anantttttnc 660
ncggcggaac tntacttgga aaaccctnnc gagttcccta angaagaagn ncctaacccc 720
ccattnaaaa ttgacgtncc gattttgntc canccgtttt gancaanngg gnaacccttc 780
cggac 785

<210> 2984
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 2984
gcaatgcngt ctttgaatcc cgtttntaaa tccctctgtt tgcaggatcc catcgattcg 60
aattccaatt ccacattttc aagaaataag gaggcaaaaa ttttcatata tgaattggaa 120
ttatttgttt tcttattagg ccgagatgcg ccgcgtgcgg ctgctggaga tggcggacgc 180
gatggatatg ttctgccaag ggttggtttg cgcattcaca gttctccgca agaattgatt 240
ggctccaatt cttggagtgg tgaagaaaga aaaaagttga actagatttg gtctgatgca 300
nttacagatt tacaaactgt gcccccaccc tcctgcagac accttccact cctcattctt 360
gagggattag ggatggaggt catgcttctg tatcgacttc atgctgacca gggtcactga 420
gtcccctaaa gtgagaggaa tgaaactctt gggcttctga gttcaaatga gttctggggt 480
cacctggagt agcttgaaag gctggtattg gtgtaataca ngctgaangt ggaagtgttg 540
gaacctgaag gacaaacagc tnaccatcca tttaaataaa taagggccca aaagttacca 600
naaccagtgg ccacnaaggg gccccagcag aaggaaanaa accnnggtga aggtgccggn 660
ataatnggac ctcgantgcc tttttaaaat ctcaannggg tttggccccg ggttccaaat 720
gggctttaac gnccttggaa atttccagcc nnaaagaaaa aacccccnaa ggccaagggt 780
ggaatccntt aangggcc 798

<210> 2985
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 2985
gcaatgcttg gnnanatnnn aggctcttga tcncatcgnt tgatcnaccc catcgnttcg 60
aattcggcac gaggttacct gtgtatgact gaagtacata ttcgttatct gcgtgagaca 120
gtacagattg gtgtatagta ttttacagcc acttcattat atgctatttc cgtgtactgg 180
caaaaaagag aataaaactt cctaggatat aagtacctac tgctgttttg gtgcatgtcc 240

agttaggctt ttctcttttt atttgtttgt gtacctgtaa ctccatataa gcatatataa 300
tcatgttaca tatgtttaaa aggcgtcatt ttgcaatgca gttttatcac tagtttttc 360
tctgtcaagg gatgtataaa aatggatcac aaatctaaat ttaaaactat anaacttagg 420
agagaatctt tgtgatcttg gattaaacaa agatttgtta gataagatac agaaagtatg 480
aacaacataa gaaaaaagtc tatagtttaa actttttat attcagtttt gcttttcaaa 540
atataccttt aangaaatgg tctgggtaag gtgggctcac acctgtnatc ccagcacttt 600
tgaaaggctt gangtgggaa gtttggcttg aggctaggaa gttcangacc cagnctgggc 660
accatagcaa gganggtctt ttacacacac acaccacnac ncacacacac ncacacacna 720
nacaccgcan cccaggtngc ntttgaaaga actggctttt tacacacccc cac 773

<210> 2986
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 2986
gcaatgcttg gnnanatnnn aggctcttga tcncatcgnt tgatcnaccc catcgnttcg 60
aattcggcac gaggttacct gtgtatgact gaagtacata ttcgttatct gcgtgagaca 120
gtacagattg gtgtatagta ttttacagcc acttcattat atgctatttc cgtgtactgg 180
caaaaaagag aataaaactt cctaggatat aagtacctac tgctgttttg gtgcatgtcc 240
agttaggctt ttctcttttt atttgtttgt gtacctgtaa ctccatataa gcatatataa 300
tcatgttaca tatgtttaaa aggcgtcatt ttgcaatgca gttttatcac tagtttttc 360
tctgtcaagg gatgtataaa aatggatcac aaatctaaat ttaaaactat anaacttagg 420
agagaatctt tgtgatcttg gattaaacaa agatttgtta gataagatac agaaagtatg 480
aacaacataa gaaaaaagtc tatagtttaa actttttat attcagtttt gcttttcaaa 540
atataccttt aangaaatgg tctgggtaag gtgggctcac acctgtnatc ccagcacttt 600
tgaaaggctt gangtgggaa gtttggcttg aggctaggaa gttcangacc cagnctgggc 660
accatagcaa gganggtctt ttacacacac acaccacnac ncacacacac ncacacacna 720
nacaccgcan cccaggtngc ntttgaaaga actggctttt tacacacccc cac 773

<210> 2987
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 2987
tcaatnnnta gggncnggnn tncctntttn ntgggccagg gcantacccc cnattccgcg 60
ttattccgga aaattttccg ngacctaccg tagggntttc acacctgggn ggttgatgga 120
accttggaaa gcttgcnata atacctgcat tatcctcgca gtnggtagta cangacacca 180
tgatatgtgc cgacatgagt cattttacag cccacttcat tatatgctat tgtccagcgt 240
gctggcaaag actagacata aaacttgact cgatctnagt ncctactgct ncacttggtg 300
catantcatg ncggctctgc natcaagnta atgcatgagn acccntcact ccatatnntc 360
nnatancaac ntgttgcact gcttcanagg ctntntatgg gctaagcaca aacatgctng 420
aagggaatct gacgaatgac tgtttanaat gggatcgcag tatntaagta ttagggactg 480
aacctnttag tgggagtaat ctttgtgatg catggatgta aacagcnaat ctgggtaata 540
ganacanaag agtgtgaacc gcattgtata aantgtntat aggttaaact tttntatatt 600

cagttttgct tttcaaaata tacctttaag gaaatggtct gggtaangtg gctcacacct 660
gtaatcccac actttnaana ngcttnangt gggaangttg gctttgaggc taggagttca 720
ngaccagcct gggcaacctt nncaagantg ggcttttaca caacacnnct ccacacacac 780
ncnnactnca nanacacacg cngnccaggn tancattanc nanganttgn nttttttacc 840
cccncncncn c 851

<210> 2988
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 2988
tcaatnnnta gggncnggnn tncctntttn ntgggccagg gcantacccc cnattccgcg 60
ttattccgga aaatttccg ngacctaccg tagggntttc acacctgggn ggttgatgga 120
accttggaaa gcttgcnata atacctgcat tatcctcgca gtnggtagta cangacacca 180
tgatatgtgc cgacatgagt cattttacag cccacttcat tatatgctat tgtccagcgt 240
gctggcaaag actagacata aaacttgact cgatctnagt ncctactgct ncacttggtg 300
catantcatg ncggctctgc natcaagnta atgcatgagn acccntcact ccatatnntc 360
nnatancaac ntgttgcact gcttcanagg ctntntatgg gctaagcaca aacatgctng 420
aagggaatct gacgaatgac tgtttanaat gggatcgcag tatntaagta ttagggactg 480
aacctnttag tgggagtaat ctttgtgatg catggatgta aacagcnaat ctgggtaata 540
ganacanaag agtgtgaacc gcattgtata aantgtntat aggttaaact tttntatatt 600
cagttttgct tttcaaaata tacctttaag gaaatggtct gggtaangtg gctcacacct 660
gtaatcccac actttnaana ngcttnangt gggaangttg gctttgaggc taggagttca 720
ngaccagcct gggcaacctt nncaagantg ggcttttaca caacacnnct ccacacacac 780
ncnnactnca nanacacacg cngnccaggn tancattanc nanganttgn nttttttacc 840
cccncncncn c 851

<210> 2989
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 2989
gaanctttga tccctttctn gttctttttg caggatccca tcgattcgaa ttcggcacga 60
gggcaggcac tggagagcca gggtggttca gnngcagctc ctctgagcag ggagtcaaac 120
agggctgaaa cagacaccag ctctccagga ccagctgctc caggaatcaa cctctaccct 180
gaaccaggtc cctgaggacc accacgtggc tgcaacacag caggagttca cagtccagag 240
gagaagcccg atgctgaaca gagaatcaca tccgtgagca acacaaaagg tctcaatcaa 300
aaacctctga aagccactgg cctagagtta gaggaagagt tagccatgag aaatggtggt 360
gacacaggtt ccaaaagaag aaacaatagg tatcaggctc agagatgaaa gggctagaag 420
gaggacacac cangttcaag gtctggcctt tctcgagggc agtggggagc catgggagga 480
gcctggacct gtggccttcc tgcttcacct gggcctnaac ccgtnacgac cacctggcct 540
ttgaggtgta tctcgtttct catcataaga gctctttcgc tcgtgtngaa ctgggaantg 600
gccgtcattg gctgcgcata cctaaacttg gtcagggcag aatgattgct agtnaccacg 660
tgaagcagga aaccccggca ttaacttgca gaatgagttg gtgangcttg aaataaatgg 720

tggaaacatn gtggcaatct ttta 744

<210> 2990
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 2990
gannnnttnn annaatgctn ggctactngt tctntntgca ggatcccatc gattcgaatt 60
cggcacgaga acacttacag cctatattgt aacttctctc ctgggatata gaaagtatca 120
gcctaacatt gatgtgcaag agtctatcca ttttttggag tctgaattca gtagaggaat 180
ttcagacaat tatactct[redacted] cccttataac ttatgcattg tcatcagtgg ggagtcctaa 240
agcgaaggaa gctttgaata tgctgacttg gagagcagaa caagaaggtg gcatgcaatt 300
ctgggtgtca tcagagtcca aactttctga ctcctggcag ccacgctccc tggatattga 360
agttgcagcc tatgcactgc tctcacactt cttacaattt cagacttctg agggaatccc 420
aattatgagg tggctaagca ggcaaagaaa tagcttgggt ggttttgcat ctactcagga 480
taccactgtg gctttaaagg ctctgtctga atttgcagcc ctaatgaatc agaaaggaca 540
aatatccaag tgaccgtgac ggggcctagc tcaccaagtc ctgtaaagtt tctgattgac 600
acacacaacc gcttacttct tcagacagca aaacttgctg tggtacacca atggcagtta 660
atatttncgc aaatgggttt ggatttgcta tttggcactc aatggtggat ataatgggaa 720
ngcttttggg nctttttaaaa nacaaaa 747

<210> 2991
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 2991
ttnnttccna atatcangct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgaggcatc ctgtccttgg gaacccttte tcattctcca agcctggtca gctgcctgca 120
caggcagagg tgccctcagc ccaggttagc aacactcata gttttgccaa ttaccagtag 180
acactagtgg aaccatctaa ctggaacttc ctctctcctt ccacttattt cctcaaactt 240
gttgctttac actagacaca tgcaaatgta tgttttaaac acaccaaaac agatcatgcc 300
aaatgagttg cctgtcaaag gctggagggc aggaggaggg cctgggtttg ggttctttcc 360
tcccagcctt tggatggtgc cttgggcccc ttagccccag cgccagggcc tcccagctga 420
ggccacagga aagcactttt ttatgatgta ctaaaagcca cagtatgtgg caactgcaaa 480
aggatcagga atttanggta tgatctcggt cacgtgtccc gggcgctgag gggaaaggaa 540
gcgggcatga ttgtagacaa tgagggggtt ctcttgatgt aatgaaatgc aattttatgg 600
tttggtgcaa aaactctatt ttccagtaaa ttaactttat ttctnaagca tattttggat 660
ttgccatcaa gaagcaataa agcattaaat ctttaaaaaa aaaaannnnn nnnnnnnnnn 720
nnnnnnnnaa aaaaaacttn gagccttttt naactt 756

<210> 2992
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 2992
gcttccttcc aattacctng tgggctactg gtnctnggnt ntatctgcag gtatcccatg 60
cgnttcgaat tcggcacgag gagactccag gctgagctgg ctgaccgacc caatcccccc 120
acccgccctc tgcccgctga cccggtggtg agaancccga aggtaacngt gggggggagag 180
caaaaaacac atgaaaaaat gctcatcatc actggccatc agagaaatgc aaatcaaaac 240
cacaatgaga taccatctca caccagttag aatggcaatc atagagcttt tcatttatct 300
gagtgttttc ctctgcttgt cgggacttgt gctttcacga gctcctgctc tcatatcagg 360
ggagtgaata attgaatttg gatagttttt tggtttttag ttggaacact ccttttcctg 420
tggaacgtct atagaaaaaa tgagtcaaac aganaatatn caggggaggc aactctgaat 480
gcttccatgg ctacatacat acctgtttct ttgatttgct aaaccctaan ttaaaaggaa 540
agtactgtct aaaatanggg agaaaattcc ctatatttat acccatcatt ttgagtnttt 600
tacaattggg antggtttnn gtattattaa attggtcaaa aaaaggtttn aaaacaanga 660
cttncnttaa aatttaagaa aggggnaaaa ctttttttct ttaantggat tgggaaaata 720
gggggcttta aataaaaact ttnaattntc cttntaactn ccttttaaan atttttgnna 780
attanaactt ttgaactgnt tcnaanaant ttgntncatn tnct 824

<210> 2993
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 2993
ngnttnnnnn nnnctntgaa acttnctggc acttccngta ngaanccctc gattcgaatt 60
cggcacgaga agaattgtac gactcttatt gatgagtgca antttttttct atagatttga 120
aagtcactac taatcatgac tagctgatta taataattga gagtaaactt ttaaaattat 180
taaatatcct gtgaaagttg gagcacagta accattaacc ctaaatttga tactatgtcc 240
atatgaattc agatcataat agtgctctat catgtgaaac tactaaagga tgtatagagt 300
taaatattac gtatccactt taatgaagaa taggtattac acagtaatgg ttgtttaaaa 360
aaatttttct tatataatat cagagtttac ctgatgtgct tgggcatgca tagntgtcaa 420
caatgatttg ctagttgtac agttttgtat gctgatcaga attatcanaa gtttgtaaag 480
catcttntct tttgattcat acatgaaaca aaaacaattc tgtgtattct cagtgttctg 540
gataaaaaaa ttttaagtgc atatactttn taggaaatat gacagatgct tgtcataata 600
caaaaatatn ttacttttct attatgctca ttnctatggg gagaggaaac ntancccgga 660
aggaaggaag aatanggatt ggaaaacatt tggctactta cctgcaactc atccntggac 720
aacangccat gtgcacattt acacccatgc cccatatacc ncatg 765

<210> 2994
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 2994
ctnctntgac taatgnactg aacngcaaat tcccntanna anccnngcgg tgcgggnctn 60
cagactgtag aagcagaagg nnccatnccc gatgnttngn ttttggtgcn aaggaccgnc 120
cnnnntagnc nctgtccctg atatgacgcc gcaatgccng angaancnca cccaanacga 180
cangcttgtc nagataagcn cgcacaggga gcangcagna ctgctgcagn tgccgcagcc 240
gcanccaccc tacaggganc tgcaacaaaa tggacaaacc acancanatg cngaggagaa 300
tggagcccat acnataccaa ataaccatac ngatatgagg gaagtggatg gggatgttga 360
aatcccncct aatanagcag ccgtgtannn gggccatgaa tctgaaactc tatcaagngc 420
ctgcancccn ggtagcganc tcctagcgnc atggnctggn gactcaacan cangnatatg 480
gaancttaag cgagaacanc ancagnggct ctacanagcc gtactnagan atngtatncc 540
acanggangg cancangtnc caagcnacaa ngangtnana ncngtanacg ggaannaana 600
anggacactt ntggccaccn gggccctatg angggaancc ccngaatacg gactaaagaa 660
ggnaaacctc ctaaccanct tangggcaca ttaaagccct ttattcncat taaaaaggna 720
atnccaaagg aaatttncaa cccaagcncc cggccgnngn naaaat 766

<210> 2995
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 2995
cnttttgatt tcnctttggc naccncctct ttntgcagga tcccatcgat tcgaattcgg 60
cacgaggaga atactttata cttctcagct ttttttgtat ttgactgtga cctggttata 120
ccatttgcca ctgtgaggct tagctgtgca tctgtgaatg ggagattgtt cttagagatt 180
ggtcatagtt gtccacctgc ctcggaaact gcaggtacaa atgcagcagc aaagtattta 240
cattcttact tcagggctga tctcctattt ctatcagtcc ttttgaaggc anagaatgtt 300
aatttggaac aacctgcata tttattcaaa tttccagaga gatgaaactt tcagaatgct 360
gtgctgcagc gccccctagt gccgngctgt actgatagtc cccagcgtct cctgaagccg 420
aaagtggtgt ttcccgcagt tccggcggga gagctgtagc cagcaggttg tgcaagtgaa 480
cattagacat cttttctcct tctcgccttc cttgggctga gatggaggaa tgtgtcttta 540
ttgctgaagg caaggtcttt gtttttcctt tagcaggaac actggttttc ccacttcgnt 600
aacctttgcc caaggtttct caactcaagc cccctgaggc cgtagtggcc ttcacacacc 660
tccagaaggt aaactgacca gcttanccaa caggctatgc tttaaggang aagggtcttt 720
tggttcccat cctgctgggg gggggg 746

<210> 2996
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 2996
tcttctnant tcnnttggct cttgntcttt ntgcaggatc ccatcgattc gcggcacgag 60
cccaggctgg tcttgaactc ctcagctttt actttagctt cccagtgtgt tgggattaca 120
ggcatgagcc acaatacctg gccaagtcct ttttttttaat caaatgactt attaatacac 180
agtttctttg ccagcttttg ttttcatttg ctatcaaaaa tgttgcttag tagtgctttg 240
atctgagtta tcaataacag gtaaatgcca ttatggataa taattcaaaa agaagcttat 300

taattattag gcctatctga gagtgaagta aagttagcat tttctttttg tttattttac 360
ttattgttta tttgtttaga gacagggtct cgctgtgttg cccaagttgg agtgcagtgg 420
tgctgtcata actcattgca gtctcaggct ggagtgatcc tcccatctca ccctcctgag 480
taggtgggat tagcatatgc caccatgcct ggctaattct tttatttttt aatttttttg 540
tggagatggg gtcttgccgt gttcangttg gtttcaaact cctggnctca acggcttggc 600
ctccaaggtg ctaggattac aggtgtgagc taccatgccc agctgagcat ttttaaaaaa 660
tactgggctt tgacatgagt cgttactatt ggatctaacc ttatgactga tatccctaaa 720
aatattataa aatttaagg 739

<210> 2997
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 2997
gaagttgtng atcagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
gagcaaccct agcaatagac tgactctact acaaaacaat ttggttattt ctcttactat 120
ttctctatta tatctgttga gggaatgtta tcatgagcac aggtattagt cctatgcttt 180
taatcggttt agtggtttct ttgtgtctca ttttattcat ttgtaatttt tttaaagact 240
ataaaacttc cacagtttct ttagatcatt aagttatatg actcttttc atgggggtca 300
gttaacaata cataagaaaa catttgttct aggataatat atgacctaac agtcttttgt 360
tagacttaga gatatcaata tgctttctat gtttcaggca tattttatat tcctggaaat 420
taaacaatat attttaggac cccataccat gtgctctcag taggacgatc acaaatcagt 480
gatcatattc tagtgttctt ttataggaaa tgtaaaccta tgtcattaca ttgttagtac 540
aactgacagt gaaatattta aaaaatctnt gtcagccaac aataatcata cttcaaataa 600
gccttatgat atgtgatatc acattggtga gtgaattttg gtcaaggcag tanaatggag 660
tcactaagag gacagtngga caagctgtct gagtttcaat cccagctntg gtactcacta 720
ntggngacat ctttgggcca atttactt 748

<210> 2998
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 2998
tcttttncta atgctnggct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagaccat gttgcccagt ctggtctagt ctgttttaac aagttgttgc tgtgtaatga 120
tatatgtgtg gtgttaattt gcttgttcct aagtttaaat gaggtagagc attttatgac 180
atgcctgttc tagtcttttg cttatttttc taattgcctt ttctttttct taataatttc 240
agttcttcat atgttcagca tactagtcct ttgtcaattt acatgtattg aatatatata 300
ctctcccatt ctgcggctta ttgttccatt cttcatgaac atttgtaatt ttaatgtcct 360
atttagacct ttcctctgtc tattgtttta tattttgtat taaaggagtc attcattact 420
ccaagatcat gaagattttc ttgtatgtaa tcatgtaatc ttcttaaaag ctttatggct 480
tttgcttttt ttttttttt ttaagagtct tgttgtgtct ccaaagctgg agtgcantgg 540
cacaatcaca gctcactgca gcctcagcct ccctggccca agtgaccttc cacctnacct 600
tctgagctgg gactatagcc atgcaccacc atgcccagca aatttttatt ttttgaagag 660

cccgattcac tggggttgcc cangctgggt tcnaatgccc tgggctcaag tgatcatcct 720
ggcntgggcc tccaaaggct nggga 745

<210> 2999
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 2999
gtgtntggnt nactctttgt cnnttggcna ctctgctctt tctgcaggta gcccatgcga 60
ttcgaattcg gcacgagtct cgatctcctg acctcgtgat ccgccnncct cggcctcccg 120
gggtgctggg attacaggcg tgagccaccg cgctgggcct ggatcaaatc tttatccatg 180
cacattggaa cacaggatta ctgggtngaa atcatnctag ttttgtcatt tagatacttg 240
tagatgaatc tattttagca canggtataa ataactcggg aggtcatctc tatcttnttt 300
nctttttgtgc atntggctat accacgttta ggtactaaaa cagctttgct tatgttggcc 360
angggaaaac atggnattct gtgcgcaaag ctaatgatcn ncagccctgc cttggcccct 420
cccttgntta tggtcattgn aagatgcccg catgttaagg ctnannctgt cactgggctg 480
ggtgtaatac ccgatnnatt cctgcngcna ncctctnacc cgaaacatga anggcactgg 540
gctctattga gatctcgata ngatcatcat tntnaactng tnttcnactg agggangtaa 600
acatgatatc tgggtgctgg tggattgaga cctcaagcat caattcaaaa gtgctggcaa 660
naatatgcac ttatntnntt ntgcactctg gctaagtgta ngctctgatg ccantttata 720
agttggnaca ttctggggaa aaatggtnca ttttnaa 757

<210> 3000
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 3000
ngctnctnnt cnngntggct tncgtgctcc tgcangagcc natcgattcn aattcgcacg 60
aggccnacac tcgnattccc cggcccttng cagcnttgga gctctagccg gggccggagn 120
gggagcggcg gggcccttgg agagacgggg ggcgcaaccc ggacgacnct ctgngaccgg 180
ntacggggac tgcgccgtgg gcgcccggnn ccaggacgag ctaacagctt tgcttcgcct 240
gacggtgggc accggtgggc nagaagccng ancccgcggn gaaccctngg ggattgagcc 300
gtcgggtctg cangagccac caggnccttt cgttccggag gccgaccggg cccggatgcg 360
ggagccagag gccagggagg actacttcgg aatcatgctc acatggtccc ctntgcacgg 420
agccctctgc caagccagat ccttttcttc atncttggaa gtctgcagtg gagagaaatc 480
attctataac tgaacagctc gtttgactga tgggaaaact gaagtcccan agacgatntc 540
tgggcctacc tggttttctc tagaaaagta ttttcaagtc tggttgcttg aaccacctgt 600
gggacntggg gatttttttg aancggnnca attccttaca acacntggna accnnganna 660
accnnttacc cctttggccc ctggtnggtn aannnnnttt tttcttnccc ccaaacccng 720
gnaaaaacct tnaagggcnn ttcctggnaa ttggcccaag gggggancCC aattaanctt 780
tttcnnaact ttttttttte cccaanggtt ttnccccttt taaggggnaa anngggggnt 840
ngnccttgan nggttttana 860

<210> 3001

<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 3001
ngctnctnnt cnngntggct tncgtgctcc tgcangagcc natcgattcn aattcgcacg 60
aggccnacac tcgnattccc cggcccttng cagcnttgga gctctagccg gggccggagn 120
gggagcggcg gggcccttgg agagacgggg ggcgcaaccc ggacgacnct ctgngaccgg 180
ntacggggac tgcgccgtgg gcgcccggnn ccaggacgag ctaacagctt tgcttcgcct 240
gacggtgggc accggtgggc nagaagccng ancccgcggn gaaccctngg ggattgagcc 300
gtcgggtctg cangagccac caggnccttt cgttccggag gccgaccggg cccggatgcg 360
ggagccagag gccagggagg actacttcgg aatcatgctc acatggtccc ctntgcacgg 420
agccctctgc caagccagat ccttttcttc atncttggaa gtctgcagtg gagagaaatc 480
attctataac tgaacagctc gtttgactga tgggaaaact gaagtcccan agacgatntc 540
tgggcctacc tggttttctc tagaaaagta ttttcaagtc tggttgcttg aaccacctgt 600
gggacntggg gatttttttg aancggnnca attccttaca acacntggna accnnganna 660
accnnttacc cctttggccc ctggtnggtn aannnnnttt tttcttnccc ccaaacccng 720
gnaaaaacct tnaagggcnn ttcctggnaa ttggcccaag ggggganccc aattaanctt 780
tttcnnaact ttttttttc cccaanggtt ttnccccttt taaggggnaa anngggggnt 840
ngncottgan nggttttana 860

<210> 3002
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3002
agctnccaca nanagctgna ttccganctt nctgcaggag nccntcgatn cgaattcggc 60
acgaggccgc cactcgtatc ccccggccct ttncagnntt ggagctctag ccggggccgg 120
agtgggagcg gcggggccct tggagagacg gggggcgcaa cccggacgac actctgtgac 180
cggctacggg gactgcgccg tgggcgcccg gtaccaggac gagctaacag ctttgcttcg 240
cctgacggtg ggcaccggtg ggcgagaagc cggagcccgc ggagaaccct nggggattga 300
gccgncgggt ctgcaggagc caccaggtcc tttcgttccg gaggccgccc gggcccggat 360
gcgggagcca gaggccaggg aggactactt cggaatcatg ctcacatggn cccctctgca 420
cggagccctc tgccaagcca gatccttttc tccatccttg gaagtctgca atggagagaa 480
atcattctat aactgaacag ctcgtttgac tgatgggaaa ctgaagtccc agagacgatt 540
tctgggccta ncctgctttc tctagaaagn attttcaaag tctgcttgtt gagcaccttg 600
tggactggca atntttgacc ggtcatccta cacactgnaa caagagatca taccttggct 660
gnggtagcct tttnttccca acagaaacta aancatntga atgcccggga ccatatcttt 720
gaatttttc aaggttccct aaggaagngg gngcctgggg tnaa 764

<210> 3003
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3003
agctnccaca nanagctgna ttccganctt nctgcaggag nccntcgatn cgaattcggc 60
acgaggccgc cactcgtatc ccccggccct ttncagnntt ggagctctag ccggggccgg 120
agtgggagcg gcggggccct tggagagacg gggggcgcaa cccggacgac actctgtgac 180
cggctacggg gactgcgccg tgggcgcccg gtaccaggac gagctaacag ctttgcttcg 240
cctgacggtg ggcaccggtg ggcgagaagc cggagcccgc ggagaaccct nggggattga 300
gccgncgggt ctgcaggagc caccaggtcc tttcgttccg gaggccgccc gggcccggat 360
gcgggagcca gaggccaggg aggactactt cggaatcatg ctcacatggn cccctctgca 420
cggagccctc tgccaagcca gatccttttc tccatccttg gaagtctgca atggagagaa 480
atcattctat aactgaacag ctcgtttgac tgatgggaaa ctgaagtccc agagacgatt 540
tctgggccta ncctgctttc tctagaaagn attttcaaag tctgcttgtt gagcaccttg 600
tggactggca atntttgacc ggtcatccta cacactgnaa caagagatca taccttggct 660
gnggtagcct tttnttccca acagaaacta aancatntga atgcccggga ccatatcttt 720
gaatttttc aaggttccct aaggaagngg gngcctgggg tnaa 764

<210> 3004
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3004
nntncntnac tnntttggct acccgttctt tntgcaggat cccatcgatt cgcagataca 60
gcctagtgtc cctcagttac acaatagtgt ntnccccntt ggtaggacag tctactactg 120
agtcctcctg gcatgagtcg agctgagatt aggatagggt aatgaccctt cagttttggg 180
gaagggacca gagctcggcc agtgagaagc ttccagctcc gtctggccat atccaggctg 240
ctgagggtcc tgggctctgt ccttaaacct catcactgac atgacccagc aaacctcctc 300
aagaggaaaa agtccccttg ggtcaaacac agcttgtgca gttctcgggg acctcctcct 360
gccatcctgg ggatgctgtg gagaatggag atgcacaggg ggctttgtcc tctcctctgc 420
cttttggaga aaatatttca ctcaaggcaa acgcagcctg agggcagcac aggggacccc 480
aaggctcact gcgcatttct agtcgccccc aaacgcgtgg gttttcctcc tggtctcctc 540
gtgggtgcct ttgctcattc tcatcctcct gttctcatnc agtctgccca gtctgaccgg 600
cttccancag catccggcca aaagtttctn ccatgacagc aggaaccacc tnagacaata 660
catgatggac angcctgctg ngttccaata gaaccccgan ttaattaanc ccgaccttcc 720
ttttanctgg atactggtaa tgacaggggt c 751

<210> 3005
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 3005

gnnnnnnnnt ntatanatac angctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag cctcatcagc aagccagtga gagggtgcct atccgaggat gatattccat 120
cacctntgtc agattctgct tactagtcag ncccaggcc caggccactc gcaaggggag 180
gacattacag gaggcgtgag tataggtggt gtgatctgtg gggaccgtcg cagaggctgn 240
ccancacaag gggttaaaac ctataaaact tcgaagttgg atttaataat tntcaattac 300
taggaaatag ataaaaacaa attttctgtc cttcacanaa cactaaagta tgtattggat 360
tttntatccc ccctgaattt tgctgtgtgn gtgcttccca gttgaagcag taattcaggt 420
tcattaatgt ttacttcaaa gccgaattgg agncttgact nacacagttc aacgctcttt 480
tcagtaacan tntcaaattc ctttacggtt atttnttgcc acataacaca ctatcctaaa 540
atgctggggc ttaaagcagn caccactgtg tttgcttatc atgctgnnga tcagcattta 600
nggctgngct cgngntgggc cgnttttcat gtgaattagc ttcttgggcn ttaacttcgt 660
gtggggtctn gcccntnggt cttgntgggc naacttggga caattcccag ggggacccct 720
tgggaatggn ccttgngaaa ttnccggaaa ccgtggggnt ttnccccaan ccaaantttg 780
nnaacccagg gg 792

<210> 3006
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 3006
cncntnaact cnnaaacttt ccgcccncnn ngcangaccc atcgatncga attcggnacg 60
agcctgnntc caggagatat gngcgttttn tcagcagtga tnaaaatcnt gggcaggtgt 120
tatngcnctg ttngcntgaa ncacacncac ctacncngcn ggaaacaagc aggntgntgc 180
ttacttgcct ttcccaggca gaagtggcca gagnccgggc ngaaaggatc caccaacanc 240
cnccnatnca tgatngcann tgnncnntnn tggnaangnc ancaaaagcn cacttgctgg 300
tgaaggtgcg ngangnnggn nncaaacnct ttnacncgca nnagaaccna atnctttaac 360
gggnacaaat ggggctgctc acgctctgga ccnntccccg gaagactctg aanagnnggc 420
tccntttcgg gttgtgcact ggtgcttgna gctgccaaac ccnacaaaac tgaaaataca 480
gaatggnttc acgtatanag ncacannnca caantgccgg actacagccc ntgancgaat 540
gnaancactt gcncatatta cntgacnctg gannacaaac tntgaaaant actctctgnc 600
ctgggnngcc atnaattctg ccacctgnag atnccccatt attncttaat aacngaaaac 660
agngcttgcc tccgatagtt aangcgggtg ccnctaagcn ttaacgnttc gcaanattnn 720
tcagatta 728

<210> 3007
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3007
gangtgctnt ntctttttga ggatcccatc gattcgaatt cggcacgagg agcggggagg 60
cgagcatgag cccccgagcc ggccctgtgg cctcctggat gaggatggga gtgagccccc 120
ccctgggccc agaggggagg tccctggagg cagcgctcac tatggggggc cctcccctga 180
gaagaaggca aaaagttcct ctgggggcag ctcccttgcc aagggccggg ctagcaagaa 240
acagcagctc ctagccacag cggcccacaa ggattctcag agcatcgccc gcttcttctg 300

ccgaagggtg gaaagcccag ctctgctggc atcagcccca gaggcagaag gtgcctgccc 360
ctcctgtgag ggggttcagg gacccccgat ggccccagag aagtacacag gggaggaaga 420
tggagccggg ggacattcgc ctgccccttc ccagactgag gagtgcctca gggagaggcc 480
aagcacctgc ccgcccagag accagggcac ccctgaagtc acccaccct gcaaaggaca 540
catggaangg caagcnggct cgatcccagc aggagaaccc agagagccag cctnaagaag 600
aggcacgccc cttaaccaaa ccttcgtcg tancttgagg tcaaaggcaa cgtnttcggn 660
canccgaaac anggcacctt gnattccaac ggnttnaaga acccnttnca cttttccggt 720
tcttggcgtn ttccttgaag gaaggttcaa an 752

<210> 3008
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 3008
gnntcttcga tcagctcttg ttctttttgc aggatcccat cgattcgtgt attcagaaga 60
aagcaaggat agaatgagta taactcttta aaatttggag gcaaaattgg ctgtgagttg 120
ccatggagat aggagcaatg gatgtccaag gtctgaggaa atagaaactg ttcgaaataa 180
ttgcagagaa agcttgccaa cggtgataag taggtttgtc tagcagcact gatgcgtcgt 240
ggaagttgat ggtcatgaac atacagtgtg ataacctatc tgccctcttg acctttttcta 300
gtagtgctat gtcattttgg tactaaggta ggtgaatttt ccaagtgttc ttggaaataa 360
ggaaacatca agaataatgt aaaagcctca tatacaataa tgaataataa agaataatgt 420
gaaggcttca ttcaaggttg gggtttgcca gatacattgc aacaaaatga cagagcagcc 480
aaggtattta ggatagtggc caaagtattg taatgatggc ttatggagtg tcagctggat 540
aaagagtgaa aatgaataaa aactaatgga ttgttcagtc gaatagcaga tggtacaatg 600
gtacatggcc agtagaatag gggcccaata aattgaagac catcagagtg gagtgataat 660
ccacaagtgg atgcagggat cnagccaagt cgatgacatg catgttgcta tgtggacaga 720

<210> 3009
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3009
gnnnnttnna tcagctcttg ttctttttgc aggatccctc gattcgaatt cggcacgagg 60
aaggaagaaa atttgggact ttgttttaaa agtggaatac tatcttctta aacaacttgt 120
gtttaaaaca agccccaatc cacacttgat cttcttaagc taggaaaagt gagctcacac 180
tgagtgctgg caggatgctc catgtgcatc attattttgt ttaattctca caataactct 240
ctaaatccct tttgaggata aggagactgg ggctgggaga agttatttca aggagtaaat 300
aaaaaattca gacccacttg ggttttatgc caaaggctct gtttttacaa atacacaata 360
ttgttgccca gttgtgatga aacataattt atgaatttca ctgagggaat ttcgcaaaag 420
gaaagaattt acttttccct ctaaagcaga ggcttttcat atgcaactgt taaaagacac 480
acgagcttgt gggtctgatg ggtggtctga gctgttgctg ttgggagagc tgctgggaca 540
ctagcaggaa gacgtagttt gtgctcantg gccaaggatg gcgcccccgt aaggcaacca 600
gatccggact acgcagtgtt ttccaggctg gaggtgccct nctcaactgt cttacaaagt 660
tcccaaagca gccacccaaa tctggctgct ccttatgccc aaatggattt ggcaggaaaa 720

aaggccaatt gggcaancag angcccaa 748

<210> 3010
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3010
gnttctaatg ctnggctctc gttctttntg caggatccca tcgattcgct taggggaagg 60
aaatgaaggt cagctttggg tatactagtg taaggtgccc atgagacatt cagataaaaa 120
ccagccacca ggcatatgga gataacaggg ctgaacttag gagaaaagcc tgggttgaaa 180
cagagattcg gatatcctca gtatgaaggt gatagttgaa actggggact ggatgaccga 240
aagagatcac ccagaacacc agtacagaga ggagagagct gaggatggaa ttttgggaca 300
taggtgcttc tacagcacat ggcaccaacc tctaataatc acaccacttg ctattacatt 360
tgatttttga aagagtagcc tgcgcagtaa tgggaggaaa ctagattgta tatgttgatg 420
agcaactaga aacaaagaag tgcagggccc tagttgtaga ctaatgtttt gaaacatttg 480
gctgtgggct gggcatggtg gctcatgcct atagtcccag cacttgggga ggccaaagta 540
gaggatcact tgaggccaan agttcaagac ccctgggcaa catagcaaag cccctgtgtc 600
tatttaaata aattaaatta aaatanaaat cagnaaaacc cacaaggctc attattcctt 660
ttccaaaaaa aaggaaaaaa aaaagttggc ttgttgaaaa agnaaagggg aaaccnaatn 720
gggccaatng gctttggaag aatctttngn aaatggnttg naaanacttt ttgttngggg 780

<210> 3011
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3011
gnttcaanag acagctactt gttctttntg caggatccca tcgattcgaa ttcggcacga 60
gattgtcttg tgttatggtg cttcagcatt ggattcagca gccagcttcc tagtacgaag 120
gcaacgatta cctccacagg gtcccttcca ttgtcctcct gcatcatttt cctccaactt 180
gaataaatgt tctacccacc tttctccttt attttctcta ccccctgtac cccgctccct 240
ctcacaatta actctacagc agaatgtgaa ttctctgatt ttagaataac tattttatgg 300
taacttcaaa tatatcctag ttgtatccac attcagcttg ggtaggtacc ttcatagtag 360
ctcatggatt aattgtccac tgcacccaat catagtcatt tttggtttgg gttgtcatat 420
gctccccaat agatgaagaa gagaataact cttagccgac ttcatcagca ggtagggaga 480
gagtctctga tggagttata tttcattatt cctcacaatt gcatagtgcc ctcttacctc 540
aaaaaaaacc tttccaggtg ttttcaaagg aattatttta ttcctncaca acaagcctgt 600
gggantcgga gcaaaaggca aaagtgatta cctgagacat tagataactc gcaatatcac 660
cctggttaac aactgagggg cccttgggct ttgancttct gntttccgaa tnanggcttt 720
ttcctgncat cntggcataa tncaanccat ggcn 754

<210> 3012
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3012
gnntncnaat agcnaggcta cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggagaaa gtaaagtccc tttataatgg catgtgaacc agacaattta gtagccaggg 120
ttgtaaggca actcttaact gacaatatag ttagtatatt ctgggccttc atcttcaaaa 180
ttagtaggta gtatttattg agtgcatatc atgtgccagg cctggtgctg agtgcttaca 240
atgatcattt tatatatggg aaaattgagg ctcagcaggg tcaagtgcct tgtaagaggt 300
agcactagta agtaacagtg ctcaaattca actaggtctt tcagcttttt atacaatact 360
gcctgttatc agaaagtata gtcttaaaat ctgctatcaa gcatctatca gaagcctgat 420
gagaaatatt cagatgatct aacgcagttc ccaaacctgc attgtgggcc gttttcatta 480
caattaccta aggtgcttta aaaattttct tgggccctac tcgttgtggt tcagcagctg 540
tgtaatggag caaaaaggaa tagtcactaa acagcgaagg aaagtggtgg aattattgaa 600
agacctagca cttacctgct gggatgagtc tcttacccca cagaattgat ttcaaacaca 660
ggacttattc aagataagga taataaccac tatcttcttg ggtnggaaaa aagtacatta 720
gactgngttt ttaaaaaatt tggtatgaat ttc 753

<210> 3013
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3013
gnnnnnnnan ttntcaagct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagatgac ttcctagctt tacccggggt tttttctgca ggtggagaag ggtggagtcc 120
tcccagatgg ttctttcttt gctcccctaa cagcctttaa gatgtggcta cttgtttttc 180
ccaccgttta acaccctcca acttcatttg gagcacgggt tcctcaaggg atcctgagag 240
ctgggtgctg ggtgctggtt tggagaggca ggatgatgct tctcccggct ggggagagca 300
gagcaggaag gctggttggc gccatgagga aagagccacg aggttttagc tcccgaaccg 360
actcgtcagt agcccctcct ccatgttggt tttacatttt tccctcctgg tctggactac 420
tttagcgcaa ggagcccagc cagacacggc agcaggccgc attgacccgt ctccatcgga 480
ccccagcccc tatctccaag agacagagga ggggtcanga ggcactgctc atctgtacat 540
actgnttcct atgacattac tggatttaag aaaacaccat ggagatgaaa tgcctttgat 600
ttttttttte tttttgtact ttggaaccac aaaatgaanc agaacttgac cctgagctta 660
aataacaaaa ctgngccaac tactactggg gatgcctaat atgaatccac gtgtaaccag 720
ttntaatcct ttatttttaa aaaaaaaa 748

<210> 3014
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 3014

tntntctnct gnactntcgg gaacttcctc tttgtgcagg atcccatcga ttcgaattcg 60
gcacgaggga agtacaaatt aagatcacag tgantttnca ttatccactt gtcacaatgg 120
ctaaaataaa caatagtggc aataccaagt cctgtgaagg atgtggagaa atggatcact 180
tatacactgc tggtgggcat gtaaaatggt acaaccagtc tgaaaagcan tttggcagtt 240
tnttataaaa gnnaacatgt aattatatgc tgaggtctga atgtcctcca aaaattcata 300
tgntgacacc caaaccctca aggtganggt tttaggaggg taggcccttt gggagattag 360
cttctgagga tggagcccca tgaatgggat tcatgcccct ataaaaaaga anccccagga 420
aacgaccttg cccttcacca tgtnatcaag aatgtgcggn ctatttacga nagannccтt 480
gcncaaacac tgaatctgac ggtgccttga nctcggggct ttctgggcct ctnntaacca 540
tgaggaaana aatctcannt gntntataac caacctancc naaggatanc cnggtattaa 600
caggccccac antgngctaa anatggncat attgaacccc accagttanc cacctctttg 660
ggccaatttt atttnccaag gggaaaatgg tnaaaattgg gggnttnatt acccaaaaaa 720
acccttgtnn ccnnnnnaaa angggttcca ntanccantn atnnnaaaan cccntnnggt 780
tnancccccc aanaaacttt tggggaaaac aaannttnnn aaaaanggtt tttnt 835

<210> 3015
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3015
gnatgtgnnn ancagctctt gaggatccat cgattcgaat tnggcacgag gggcggcttt 60
ggcctcacgc ttcggggaga ctcgcctgtc ctcatcgctg ccgtcattcc agggagccag 120
gccgcggcgg ctggcctgaa ggagggcgac tacattgtgt cagtgaatgg gcagccatgc 180
aggtggtgga gacacgcgga ggtggtgacg gagctgaagg ctgcnggaga ggcgggcgcc 240
agcctgcagg tggtgtcgct gctgcccagc tctagactgc ccagcttggg ggaccgccgg 300
cccgtcctgc tgggccccag ggggcttcta aggagccaga gggagcatgg ttgcaagacc 360
ccggcatcca cgtgggccag tccccggccc ctcctnaact ggagccgaaa ggcccancag 420
ggcaagactg gaggctgccc ccagccctgt gccccagtga agccagctcc gcctcatcct 480
tgaagcaccc agggtggccg tgagggccag gatccctgca cgcctcaccc tggctccaac 540
tggcancaag caccgagcat gcccttccca cccaaaggac cttcnggcaa tgccttgtnc 600
cgccttatgc ttggaagctt gcctngggca ccttgccttg nccatttaaa gactggtcan 660
aacctgaaaa aaaaaaaaan aaaaacttcg agaaaaggcc cnaacattgg agaatcaaga 720
attntatctt ggnacttgca tttgancctc tttcttaaaa ttnn 764

<210> 3016
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3016
gttattcttt cnaaaangnt gggntactcg ttctttctnc aggtagccnn tcgattcgtt 60
tgtaggcaat ggaaagccac cagtggtttt agttgagcag caatgaaatt aagcctgtgc 120
tttgcaaaga ttaatctanc agcnacagat tggaagcaac accaccattc ctggtatcag 180
tccacgtana atatattaca gntctntact ggagcaannn cagtaatatt anaaggagaa 240
ataaaannna anaatattgc acaggcagaa tggggaggtc ccacngatgg agctgatctt 300

ggcnattgan gcatgggtgg cattnatcat gtnaaacaca ggatgaggaa ctgggttngg 360
agtnatggan nagttcantt tacgtaattg caaatacacn ctattccctg actagctncn 420
annacttnat cttncctatc ttcttaganc ttcattatga agaggtgatg atagctctta 480
ngntgagagc tcttacttac cattgactaa tacatgttct cntgatgnaa ntttgntatt 540
ncaacatcca tgctaaangg ggttattnaa acangnnaac tctngggccn gatgaaggnn 600
nancctncat taactnntca tgntgnnact nnatcnaagg ggccaanttg tnnccttaaa 660
tttttgtaaa aatttngcca atgccnaaaa catatnaatn ttcncttgca natgaaaaan 720
tcncgaancc cnatttnntn aaacagaang gttnntggnn ggacctttt an 772

<210> 3017
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3017
gaagngctct gttctttttg caggatccct cgattcgaat tcggcacgag gcgccatgtt 60
aggacgaagg ggaaggagga gaagcgctta aagcggcggg agcggtgcgg gagaggggtt 120
ggacccaggg ctgaggcagg ccccccccctc cctcccgcct cagtggatca tgcccagggc 180
ggcagcggcg gcggttgcgg gggggaagtg actgggcggt gccggcgccg gagacgatgc 240
cgtttccagt tacaacacag ggatcacaac aaacacaacc gncacagaag cactatggca 300
ttacttctcc tatcagctta gcagccccca aggagactga ctgcgtactt acacagaaac 360
taattgagac attgaaaccc tttggggttt ttgaagagga agaggaactg cagcgcagga 420
ttttaatttt gggaaaacta aataacctgg taaaagagtg gatacgagaa atcagtgaaa 480
gcaagaatct tccacaatct gtaattgaaa atgttggagg aaaaattttt acatttggat 540
cttacagatt aggagtgcat acaaaaggtg ctgatattga tgccttgtgt gttgcaccaa 600
gacatgttga tcgaaatgac cttttcacct cattctatga taaagttgaa atttcnggga 660
agaagttaaa ggatttaaga gcttgttgna agangcattt cgtaccnagt tatttaaacc 720
tctggtttga tggggattag aagattggat attttgt 757

<210> 3018
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3018
nctatnactg antnccnttc nngctgcagg atccctcgat tcgaattcng cacgagggga 60
cactggattc tcattctact caaactccca ctaggactgt tggcttgttc gcttctcaag 120
tgtttgtatt tttctgagtt aatatttttg ggtgtaattt acatgtagga aaatgtacac 180
atttttagtg tacagttcac caagctttgg caagcatgta tagcctggta acccacaagc 240
caatggagac ctagaacatt cccgtgaccc cagatgctgg gttctgtgtg ccttcccagg 300
gcttgtggct gggcacatca ggcatggcgg gtaccatgcc tgacagctct gaaccagttg 360
ggcgacctgg gtctgggagg tgctgaggga cccagcaccc tgcaggcgtt tccttttgtc 420
tcatgtagca gtgcagatgt ttggaaagtc acacgtaaat cttgaaaaac tggaaacagg 480
ccangcgtgg tggctcatgt ctgtaatccc agcactttgg gaggccaagg tangaggact 540
gcttgaggcc aggagtttga gaccagcctt tggcagcata gaaagacctt gnctctacag 600
aaaattttaa aactagccag gtgtgggggg gttgcatgcc tgtagtccca gcaacttgga 660

aggctnaagt tggaaggatt gcttgagcct aggaatccaa ggctncaatg agcccatgat 720
caccaattga ctgc 734

<210> 3019
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 3019
gtctatctca ctnnagccct ntgttagcnc tggttctntt tgnatnnaat tcggcacgag 60
gcaagatccc tccacctgtc attatggtgc aaaatgtgag cttcaagtat acaaaagatg 120
ggccttgcat ctacaataat ctagaatttg gaattgacct tgacacacga gtggctctgg 180
tagggcccaa tggagcaggg aagtcaactc ttctgaagct gctaactgga gagctactac 240
ccacagatgg catgatccga aaacactctc atgtcaagat agggcgttac catcagcatt 300
tacaagagca gctggactta gatctctcac ctttggagta catgatgaag tgctacccag 360
agatcaagga gaaggaagaa atgaggaaga tcattgggcg atacggtctc actgggaggc 420
cactgtagga ggatcaattg agcctagaag ttcaagacca gcctgggcaa agtagggaga 480
ccccttctct acaaatagta ataaaatgaa ccggggcata gtagcatgtg cctgcggtcc 540
ccagctgctc tgataagaag angctcactt tgaccccagg aaggttgang ctgcagtgag 600
ccataaccgt gcccggttac cacttccaag cccttgattg accaggaacc gaanaccact 660
tggncttcna aaaaaaaatt naaaaaaaan ttcannaatt ggcttggaaa aaaaanaaat 720
nnntnnnnnn anaaaaaact ttggggccct tttttnaaac ctnnttgggg gaggtccgat 780
tttaccntaa nantc 795

<210> 3020
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3020
aanccctttg aaaatcccct ttttgcagga tcccatcgat tcgaattcgg cacgagggan 60
ntnaggccan ganacaaagc agcntttgcc agnangagac actcattggn aggnctaatg 120
tcnccctgtg ctgatacaag catgaactnt ntggaatntt ctgctantct gaaattacan 180
cnantngnct ggggtnnggn ngacgcntgg caatggttgt nttnacacac nganttacnc 240
tgaaccncaa cntggacngc acatnacaca catcanactt tcacngngca tctcgaactc 300
ngggttcacc cgatncngaa accntatgct accaagaagt gcgtgncctc taggcacacc 360
tcactattgc ccggcaaatt nntgtgantt cggagctttt gcagaancnn gannnctgca 420
tgaacnccaa gctggactca tannaccnga nntcatctga tccgcctgcn ngagctccca 480
aagggctgng atnatatggn naagccacnc tgcttatcca aggtcaatnt gaaantnnga 540
ccaacncngg ntngatngcc cnnaaaggct naacgggnac atgccnntaa tgccaaaaac 600
ggtaaanctc tctcancccg ggaacccgga actggnaaac ttgngccgct ttacccaata 660
atgnntccga ataacgttnn ancccaaaaa nngggcccca gccntagggn gaancntgga 720
caagcccaca anttggnaat ggccntnnna aaaaaaatgn ttnn 764

<210> 3021
<211> 810

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 3021
ngtctntnac ttcgtggctc ctttngaaaa tccccttttg cnggatccca tcgattcgaa 60
ttacaggctt gagccactgc accaggccct aagagctctt tnctttctta tcacacagtg 120
aattaaaata ttttggatct taactatccc atattaagcg atcctttcct caaatgaaag 180
aaaatactta attagaacat atatgtttaa actgatacag taagttgttt gtaagcctct 240
agaactatag tgagtcgtat tacgtagatc cagacatgat aagatacatt gatgagtttg 300
gacaaaccac aactagaatg cagtgaaaaa aatgctttat ttgtgaaatt tgtgatgcta 360
ttgctttatt tgtaaccatt ataagctgca ataaacaagt taacaacaac aattgcattc 420
attttatgtt tcaggttcag ggggaggtgt gggaggtttt ttaattcgcg gccgcggcgc 480
caatgcattg ggcccggtac ccagcttttg ntccctttan tgagggttaa ttgcgcgctt 540
ggcgtaatca tggncatagc tggttcctgn gtgaaaatgn tatcccggtc acaattncac 600
acaaacatta ccgagccggg gagcnttaaa agtggtaaaa gccctggggg tggccttaaa 660
ggaggtggag cttaacctca ccaattaaat tggcggttgg ngccttcaaa ttggccccgc 720
ttttccaant ccggggnaaa accctgnncn tggccaaant tggaatttaa aggnaaatng 780
ggcccaaang cccccggggg gaanaaggct 810

<210> 3022
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3022
gntnnttcta atgcttgggt acttgttgtt ctttctgcag gatcccatcg attcgctgaa 60
atgtcaaaca cggccaccta ggcagcattt acaagcaaga gttcactgct tttttgatgt 120
atatnttaag cgccccccagt gaatgaacag catataactc cacataaaaa tcattaaatg 180
taattgactt ccanagcang cagttctgnt gtatgcctct ggagaaggct ggctgaattg 240
naattggtct gtaccttctg tctatcatgt acatgaggtt tttgggcaaa gagaactttc 300
cacaaaataa gtccaaaaat tatacgatca tcagacaacc aatancatat tgatganata 360
tctccaagat ctanaatnnt nctgngtgtc aaggaantct ttgnggtttt tacaaatatt 420
gataatgcac tttntataaa atgcactttt tataaaaatg catgctcagt tnagacaact 480
tggnaacacc ctgaaaaggn ncnngcgtan tgngtnacgc ctgnaatccn agcnctctgn 540
gaggccgaga cgggtggatc acnatgtcag gaaaatgnga ccatnctggn taacatggng 600
aaaacnccgt ctctncttaa aatncggana attngcagga tntggtgccg gccncctatn 660
gtnccattta ctcannaagg cttgagtnag gaaaatggtg tgaanccctt gaaanangan 720
nttttcaatn accggggatn ccnaccnttg aatttnatct gggga 765

<210> 3023
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(757)
<223> n = A,T,C or G

<400> 3023
gnttntncat antgaaagcn cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagcagatg gtttttaacg cctaccaggc tggggtagga gcactcaaac tctccatgaa 120
ggatgtcaca gtggagaagg cagagagcct cgtggatcag atccaagagc tctgtgacac 180
ccaggatgaa gtttctcaga ctctggctgg tggggtaaca aatggcttag attttgacag 240
tgaagaactg gagaaggaat tggacatcct ccttcaggat accaccaaag aacctttgga 300
tctgcctgac aacccccgca ataggcattt taccaacagc gtgcctaacc ctaggatctc 360
agatgctgaa cttgaagctg aacttgagaa actgtcctta tcagagggag gtttggtccc 420
aagcagtaaa tctccaaaaa ggcaattgga accgactcta aagccattgt aggaccctca 480
agtgaaggac cctcatgtaa aagagagacc aggcctgctg ggtgtgtaca tagntattta 540
aacaagaaac tctcagaatg tgtttggaag angagaaagg agaaccactg attttatctg 600
gatgctacta cttactacag gacagatnga atttcttgga accgatgctt caaangcttg 660
gttcccactg natcatggac ctgccttntn atctttatag gggccnccaa tttatacagt 720
cctgtggctg acctgncatt tcatancctg cagttct 757

<210> 3024
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3024
ntaatccaan aaccttgttg aagcctttgn annnccnatc ggcaggaccc atcgattcga 60
attcggcacg aggacccagg tagaccagct caagagttca tgttctttgt catcctcctg 120
tgagctctct gtaagtctct ttcttgccca tcaccacatc cctagtactg ggtatcagtc 180
tggccacttg gctttctggt ttgccccaat gtggtctatt cttgatgcag ctaccaaagt 240
aatgttttaa aaccattata ccaagttact atccttgtca aaaccccccag taactgccaa 300
tctcacttag aataaaatcc ggactcctgt gaagcacagc ataaactggc cactgcctat 360
gcagcaacct catctttacc gtttcctgcc ttgctcactc ccttccagcg ccgttattct 420
tcctgatgcc cctagtacac aacaactnct tcctgctcca agagtaggaa aattactgnt 480
ctctctgcca gtgagattcc tcttctggta ttacctttgc ttcattgctg aatcttctcc 540
aatatcatct tctaaaaaga gccttttaaa atcacctttt ctattatgcc ctactcaatt 600
tccagtccct gaatgcccat tccccacttc atagcactta ttgctatctg aaattcacta 660
aatgncacct tcatganggt aggcaattta atgncttggc actggtatgt ctanagacaa 720
gcactggcta tagtaggcac tcaacaaata tt 752

<210> 3025
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3025
nctctactca gattgcttgg cgntctntnt gcaggatccc atcgattcga attcggcacg 60
agccccactc ggggtatgtg aatgcccagc tggagaagga agtgcccatc ttcacaaagc 120

agcgcattga cttcacccct tccgagcgca ttaccagtct tgtcgtctcc agcaatcagc 180
tgtgcatgag cctgggcaag gatacactgc tccgcattga cttgggcaag gcaaatgagc 240
ccaaccacgt ggagctggga cgtaaggatg acgcaaaagt tcacaagatg ttccttgacc 300
atactggctc tcacctgctg attgccctga gcagcacgga ggtcctctac gtgaacccac 360
ttgagaaggc tgcctcctag gctctgctca gtcatcttgc aattgccaca ctgtgaccac 420
gttgacggga gtagagtagc gctgttggcc aggaggtgtc aggtgtgagt gtattctgcc 480
agcttttcat gctgttcttc agagctgcag ttatgccaga ccatcagcct gcctcccagt 540
agaggccctt cacctggaga aagtcagaaa tctgacccaa ttcacccccc gcctctagca 600
cctcttctgt cctgtcattc ccacacacgt tcctgttcac ctcgagagag agagagagag 660
agcacctttc tttcgtctgn tcacttttgc gggctntgga atnccagctc ttctctntca 720
gaagaagcct tctcttcctc tgccttgtag gtgtnccaaa agt 763

<210> 3026
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(933)
<223> n = A,T,C or G

<400> 3026
ntatcnttat acgtctctaa aancnttggc tactngttct ttntgcagga tcccatcgat 60
tcgaattcgg cacgaggctg ccaccacccc cgggcccagc ctgtctgaaa gttcagggtt 120
taggccgaaa aacccggtgg ggaggggtgg ggagccggag ctctgtggcg gggctggagg 180
gctggggtgc actttagttt ggggcgggac gggagccgcc gttgtgactg gcgtggtctg 240
gctgctgctc ccgaacggag gggtcagnnt tggcttgctg ggccctcaga gcccagtggg 300
tggctctgac tcggctccct actccctgca cccagctggg cgcaccttgg ggcctgcggt 360
ctgaatgtat ccctcccctn agttttaacc tgagctgccg aacgcacagt gggcncgggg 420
gcnaagctgt gnggaaaccg gggcccaatt acggatcccn ggaagttaca ggtgccnacg 480
tgatgtcnct ttntcttggt gcccaactta ccttacttgg tcttgaanac ttagcttctt 540
ngggggggtag gcccgngggc cccnccaaaa aannentggn nnncccggnt ttccaacccn 600
ttggccccgg tggccttgnt ttganttatt gangcccctg gntttggncc aaataaancc 660
ccccttgggt tntgggggggg aaaggnaatt tttngggccc caacccnccn tttggaaaaa 720
aancccccgg gaangggnaa aaaaccgggg nccnntttnt tgccccttgg gggttttttt 780
nccngggaaa aaaaaccccc nnttttaatt ggggntttt ggggtccccg tttccaanaa 840
aacacccttt ggttttnaaa agggggggga attggngccn ttnaaacccg ggcccaaanc 900
cnntaagnaa tttcccnaac ccgctttnaa nnn 933

<210> 3027
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3027
nttnagcnta nnagccgttg tantgaagcc cntttgctac ttgctctttt tgcaggatcc 60
catcgattcg aattcggcac gaggacccag gtagaccagc tcaagagttc atgttctttg 120
tcatcctcct gtgagctctc tgtaagtctc tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggctttctgg tttgccccaa tgtggtctat tcttgatgca 240
gctaccaaag taatgttnta aaaccattat accaagttac tatccttgtc aaaaccccca 300

gtaactgcca atctcactta gaataaaatc cggactcctg tgaagcacag nataaactgg 360
cactgcctat gcagcaacct catctttacc gtttctgcct tgctcactcc cttcagcgcc 420
ggtattcttc ctgatgcccc tagtacacaa caactccttc ctgctccaag agtaggaaaa 480
tnactgtctc tctgccagtg agattcctct tctggtatta cctntgcttc attgctgaat 540
cttctgcaat atcatcttct aaaaagagcc tttnaaaatc acctttttcta ttatgcccta 600
ctcantttcc agtccctgaa tggccattcc ccactttcat agccacttaa ttgctatctg 660
aaattacact taaaatggtc accttcatga tgggaaggca attaattgcc tttgtcactg 720
gtatgtctag agaacaagca gnttggctca tagtaggcac tcaacaaaaa ttt 773

<210> 3028
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3028
nttnagcnta nnagccgttg tantgaagcc cntttgctac ttgctctttt tgcaggatcc 60
catcgattcg aattcggcac gaggacccag gtagaccagc tcaagagttc atgttctttg 120
tcatcctcct gtgagctctc tgtaagtctc tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggctttctgg tttgccccaa tgtggtctat tcttgatgca 240
gctaccaaag taatgttnta aaaccattat accaagttac tatccttgtc aaaaccccca 300
gtaactgcca atctcactta gaataaaatc cggactcctg tgaagcacag nataaactgg 360
cactgcctat gcagcaacct catctttacc gtttctgcct tgctcactcc cttcagcgcc 420
ggtattcttc ctgatgcccc tagtacacaa caactccttc ctgctccaag agtaggaaaa 480
tnactgtctc tctgccagtg agattcctct tctggtatta cctntgcttc attgctgaat 540
cttctgcaat atcatcttct aaaaagagcc tttnaaaatc acctttttcta ttatgcccta 600
ctcantttcc agtccctgaa tggccattcc ccactttcat agccacttaa ttgctatctg 660
aaattacact taaaatggtc accttcatga tgggaaggca attaattgcc tttgtcactg 720
gtatgtctag agaacaagca gnttggctca tagtaggcac tcaacaaaaa ttt 773

<210> 3029
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3029
nttnagcnta nnagccgttg tantgaagcc cntttgctac ttgctctttt tgcaggatcc 60
catcgattcg aattcggcac gaggacccag gtagaccagc tcaagagttc atgttctttg 120
tcatcctcct gtgagctctc tgtaagtctc tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggctttctgg tttgccccaa tgtggtctat tcttgatgca 240
gctaccaaag taatgttnta aaaccattat accaagttac tatccttgtc aaaaccccca 300
gtaactgcca atctcactta gaataaaatc cggactcctg tgaagcacag nataaactgg 360
cactgcctat gcagcaacct catctttacc gtttctgcct tgctcactcc cttcagcgcc 420
ggtattcttc ctgatgcccc tagtacacaa caactccttc ctgctccaag agtaggaaaa 480
tnactgtctc tctgccagtg agattcctct tctggtatta cctntgcttc attgctgaat 540
cttctgcaat atcatcttct aaaaagagcc tttnaaaatc acctttttcta ttatgcccta 600
ctcantttcc agtccctgaa tggccattcc ccactttcat agccacttaa ttgctatctg 660

aaattacact taaaatggtc accttcatga tgggaaggca attaattgcc tttgtcactg 720
gtatgtctag agaacaagca gnttggctca tagtaggcac tcaacaaaaa ttt 773

<210> 3030
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3030
ngttnnnntt gtnctntntc tctgaaancg tttggctact tgttcttttt gcaggatccc 60
atcgattcga attcggcacg aggtaggttg aaagcctggt cagctattct gcaagacagt 120
caaaaattgt ttacagggct ggacagcata ttgctattga aaaatagcta ttaggagacc 180
ttgcacaatt tgtgaaacat tgttaggctc attgtactgt gtaaaatcag gaaagaattt 240
gggaacatac tgatacaaca aaaagatagg ttgtcaaacc ctcacttnac cagaaagcta 300
aattaaccag ataagtcttt ctgaaagttt tagtgtctta gtttgttcct gcgctgtaac 360
agaatacctt agactgggta acctataaat aataggaatt tatttctcac agttttggag 420
gctggcaaat gcaagatcca ggtgctggta cgttcagtgt ctggcaaggg cggctttctg 480
gtccaagatg gtgccttttt ttctgcatct tccataggga atgaacactc cttatggtag 540
aagggatgga aggaccaggc ttttttttt ttttggatac agcaggatct tgctctgtcg 600
cccagcctgg aatgcaatgg ctgattaagg tcactgnagc ctcaatctcc cacttttcag 660
cgatcatcca ccttancctc ttggatagct gggaccgcag cacanctaca tgcctgntta 720
attattttgt aaaaccgggt ttnctgtgcc n 751

<210> 3031
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3031
ntaatccaan aaccttgttg aagcctttgn annnccnatc ggcaggaccc atcgattcga 60
attcggcacg aggacccagg tagaccagct caagagttca tgttctttgt catcctcctg 120
tgagctctct gtaagtctct ttcttgccca tcaccacatc cctagtactg ggtatcagtc 180
tggccacttg gctttctggt ttgccccaat gtggtctatt cttgatgcag ctaccaaagt 240
aatgttttaa aaccattata ccaagttact atccttgtca aaaccccccag taactgccaa 300
tctcacttag aataaaatcc ggactcctgt gaagcacagc ataaactggc cactgcctat 360
gcagcaacct catctttacc gtttcctgcc ttgctcactc ccttccagcg ccgttattct 420
tcctgatgcc cctagtacac aacaactnct tcctgctcca agagtaggaa aattactgnt 480
ctctctgcca gtgagattcc tcttctggta ttacctttgc ttcattgctg aatcttctcc 540
aatatcatct tctaaaaaga gccttttaaa atcacctttt ctattatgcc ctactcaatt 600
tccagtccct gaatgcccat tccccacttc atagcactta ttgctatctg aaattcacta 660
aatgncacct tcatganggt aggcaattta atgncttggc actggtatgt ctanagacaa 720
gcactggcta tagtaggcac tcaacaaata tt 752

<210> 3032
<211> 768
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3032
tnngttnnnn ttgttatncn ctnngaaacc nttggctact ngntctttct gcaggatccc 60
atcgattcga attcggcacg agacctgagc tagggttgca gcagaaaatt gagttgcagc 120
ttgcccttgt ccagacctat tttctgcttg cgtttttgaa acaggaggtg cacgtaccac 180
ccaattatct atggcagcat gcatgtatag gccgaactat tatcagctct gatgtttcag 240
agagaagacc tcagaaaccg aaagaaaacc accaccctcc tattgtgtct gaagtttcac 300
gtgtgtttat gaaatctaat gggaaatgga tcacacgatt tctttaaggg aattaaaaaa 360
aataaaagaa ttacggcttt tacagcaaca atacgattat cttataggaa aaaaaaaatc 420
attgtaaagt atcaagacaa tacgagtaaa tgaaaaggct gttaaagtag atgacatcat 480
gtgttagcct gttcctaatc ccctagaatt gtaatgtgtg ggatataaat tagtttttat 540
tattctctta aaaatcaaag atgatctcta tcactttgcc acctgtttga tgtgcantgg 600
aaactggtta agccagttgt tcatcttcgt ttccaaatnt aaaggatagc tggttaggat 660
attttggtca tatttgtaaa ttttgaaat gcttagtaat gtgttttcac cacaagtatt 720
tgttgcaaac ttaatgncat ttccttaana agggtacagc tatgtaat 768

<210> 3033
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 3033
cacngaatcg atntnacctt tgttcangcc ttttngaagg accccatcga tacgagccca 60
tgcgattcga atncggcacg aggacnnagg nagaccanct caaggagttc ntgttctgtg 120
tcatcctcct gtgagctctc tgtaagtctn tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggcttnctgg attgccccaa tgtggtctat ncttgatgca 240
gctgccaaag taatgttnta aaaccattat accaagtnnc tatnctngtc anaaccccca 300
gtaactgcca atctcacttn naatnaaatc cgnactccng tgaagcacag cataaactgg 360
ccactggcta tgcagcaacc tnatntntac cgtttactgc ctngctcact ccctttcann 420
gccnttgatt cttcctgatg ccnctagtca caacaactnc tttgctgctn caagagtang 480
aaaatnactg atcnctntga catgagatcg catntttatg gtattacctt tgcgtcattg 540
ctgaatcttc nccaatatca tnttctanaa tagagccttt taaaataccc ntacnntatt 600
atgccnttnc tcaattttca antccctgaa ntgccccatn tcnccacttt tcagtagnca 660
ctttaattgc ttatcctgga aaatttanca cctanaattg gtcacccatt gaaagaatag 720
ggnnatggca aanttattgg gcctttngtc naactgtnct gnncttanan gaaccaagnc 780
aacttnggct tnanaagtaa ggcnccntca accaaaatnt tct 823

<210> 3034
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)

<223> n = A,T,C or G

<400> 3034
cacngaatcg atntnacctt tgttcangcc ttttngaagg accccatcga tacgagccca 60
tgcgattcga atncggcacg aggacnnagg nagaccanct caaggagttc ntgttctgtg 120
tcatcctcct gtgagctctc tgtaagtctn tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggcttnctgg attgccccaa tgtggtctat ncttgatgca 240
gctgccaaag taatgttnta aaaccattat accaagtnnc tatnctngtc anaaccccca 300
gtaactgcca atctcacttn naatnaaatc cgnactccng tgaagcacag cataaactgg 360
ccactggcta tgcagcaacc tnatntntac cgtttactgc ctngctcact ccctttcann 420
gccnttgatt cttcctgatg ccnctagtca caacaactnc tttgctgctn caagagtang 480
aaaatnactg atcnctntga catgagatcg catntttatg gtattacctt tgcgtcattg 540
ctgaatcttc nccaatatca tnttctanaa tagagccttt taaaataccc ntacnntatt 600
atgccnttnc tcaattttca antccctgaa ntgccccatn tcnccacttt tcagtagnca 660
ctttaattgc ttatcctgga aaatttanca cctanaattg gtcacccatt gaaagaatag 720
ggnnatggca aanttattgg gcctttngtc naactgtnct gnncttanan gaaccaagnc 780
aacttnggct tnanaagtaa ggcnccntca accaaaatnt tct 823

<210> 3035
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 3035
cacngaatcg atntnacctt tgttcangcc ttttngaagg accccatcga tacgagccca 60
tgcgattcga atncggcacg aggacnnagg nagaccanct caaggagttc ntgttctgtg 120
tcatcctcct gtgagctctc tgtaagtctn tntcttgccc atcaccacat ccctagtact 180
gggtatcagt ctggccactt ggcttnctgg attgccccaa tgtggtctat ncttgatgca 240
gctgccaaag taatgttnta aaaccattat accaagtnnc tatnctngtc anaaccccca 300
gtaactgcca atctcacttn naatnaaatc cgnactccng tgaagcacag cataaactgg 360
ccactggcta tgcagcaacc tnatntntac cgtttactgc ctngctcact ccctttcann 420
gccnttgatt cttcctgatg ccnctagtca caacaactnc tttgctgctn caagagtang 480
aaaatnactg atcnctntga catgagatcg catntttatg gtattacctt tgcgtcattg 540
ctgaatcttc nccaatatca tnttctanaa tagagccttt taaaataccc ntacnntatt 600
atgccnttnc tcaattttca antccctgaa ntgccccatn tcnccacttt tcagtagnca 660
ctttaattgc ttatcctgga aaatttanca cctanaattg gtcacccatt gaaagaatag 720
ggnnatggca aanttattgg gcctttngtc naactgtnct gnncttanan gaaccaagnc 780
aacttnggct tnanaagtaa ggcnccntca accaaaatnt tct 823

<210> 3036
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3036
ncgttgnnnn ttctntgatt ccttgtntga ngctctttct gcaggatccc atcgattcga 60

attcggcacg agggcagcta gagtcaggaa aatgaccctc atatgctttt aatctttgtt 120
tcagttgtct gtcagggttg aattaagaag ctactggttt attcccaatt gttgatgcct 180
ttaggtatgt tggaatcttt ttttttgcct aggaggggcc agttgaaaat ctgtgactca 240
agaggcagtg aacagaatac tgttttctgg ggaaaaattg gttggctact tgatgttaat 300
tatggcacag taacaggaaa aggttgtgtc tgtgttttta agtttttctt tattctgctt 360
ttttgctgct ataagagttt tctgaaattt atattttaaa cttttcatgc actttactgt 420
ttctagtctc aaaatgtgat atttttaata aacaagaaat tttccattat gtgaatgaaa 480
ttttaaaaga caatagccta tatttgtgtc tcactaatat ataaagtata ggtcaaattt 540
aaattattta attagtttta aatatcacaa tttgtctcct ctttcaaacc tgacatcttc 600
gggctgtttt attagtctaa atgatgcatt tacttttgtc attttatgct aattctttca 660
tagtaaataa tcaggctata taaggtaata tttccccana nggtaatttt aatgggacna 720
nggttggtgg gatgatgtca tatcatacat ggggattgcc 760

<210> 3037
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3037
tnnnctantn ttatacctttt antactngct ctttttgcag gatcccatcg attcgaattc 60
ggcacgaggt gatctgcctg ccttggtctc ccaaagtgct gggaatacag gcatgagcca 120
ccgcactcgg ccaggagcta gttttatcag catcctgctc cactgccttc ctctagtgca 180
gcctggaaga catggcagcg ggtagctcct ggggctgagc cagaagcatc actgcagtga 240
aagtctctgc ttacctgtct ggctcagctt gggcaagggc tgggccatat gtgctcaggg 300
acgtgcttct cttgtaaggc aggaggatag aagaggacca agaagggagg gagctgccct 360
gtggtgcaca caggcctgcc atggggcgtg ggagcccatc ccgctgcctg accggagctg 420
gctgctgtgg tggactcagg aaccactttt aatactgcaa ctgctccctt ttgcccagtc 480
agggaaagct gactgtaagt cccacctncc cctncgtcca cccttctagt ggtttctctg 540
agaggtttct ctgcttcagc tgtgcttgaa gtggcatgcc tnctctgctg canggctccc 600
ccaaccccca cacggnctta aagatgttaa tttccttata gactggatta aagtcagcca 660
ttctttttcc tcaaaaaaaa aaaaaaaaaa cttgagcctn tanaactata tgagtcgtat 720
tacgtagatc cagacntgat aagatncatt gtgagtttgg acnt 764

<210> 3038
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3038
tgggnnnnnn nnnttnnntn tactaanntt atgcctcgtt agtacnngct ctttttgcag 60
gatcccatcg attcgaattc ggcacgagat tggggactga catcttaagc tctcacctgg 120
ctgcagtang aaaggccaaa ctgacgacaa aaaaaaaatt ctttataaag atgatatggt 180
aacatgtatc tttgccctgg gtctgggtgg gtccagtcag tctcagattt acaagcattt 240
aggagcctag gtaaaagctg ctagtattct tttaaaagtt atatttatga cttgcaatga 300
tagaaaactc cttccaatta aatggcattt tataatatta tgtgtgtact tcacagtgtt 360
aaaaataccc tcatacgtta ttgcatttga tcttcacaga aagtgcattt taaccagtac 420

tctgggtgca ataaataata tgtagaaatt taagtcctcc aattccagca tatccagtga 480
gttttgacag tgtgtttatg tggaatgttt aaggatatac aattgtactt tatataaatt 540
ggttcttgtt cttcttaaat gtgacatgaa ataattgngc tgctacatta tactggaaat 600
taacagggga aaagggaaga gcttcttggc tcccttgagg tctgctantg ggtgttaggg 660
agtggttaca actgaacttt tantaaccat ttaaccgtat gtaaacttgg tttctaatta 720
aaaaaaattc ctttttccaa aaaaaaanaa nntnacccca ntttttantc nnnnnnanct 780
nanannt 787

<210> 3039
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3039
ntaatccaan aaccttgttg aagcctttgn annnccnatc ggcaggaccc atcgattcga 60
attcggcacg aggacccagg tagaccagct caagagttca tgttctttgt catcctcctg 120
tgagctctct gtaagtctct ttcttgccca tcaccacatc cctagtactg ggtatcagtc 180
tggccacttg gctttctggt ttgccccaat gtggtctatt cttgatgcag ctaccaaagt 240
aatgttttaa aaccattata ccaagttact atccttgtca aaaccccccag taactgccaa 300
tctcacttag aataaaatcc ggactcctgt gaagcacagc ataaactggc cactgcctat 360
gcagcaacct catctttacc gtttcctgcc ttgctcactc ccttccagcg ccgttattct 420
tcctgatgcc cctagtacac aacaactnct tcctgctcca agagtaggaa aattactgnt 480
ctctctgcca gtgagattcc tcttctggta ttacctttgc ttcattgctg aatcttctcc 540
aatatcatct tctaaaaaga gccttttaaa atcacctttt ctattatgcc ctactcaatt 600
tccagtccct gaatgcccat tccccacttc atagcactta ttgctatctg aaattcacta 660
aatgncacct tcatganggt aggcaattta atgncttggc actggtatgt ctanagacaa 720
gcactggcta tagtaggcac tcaacaaata tt 752

<210> 3040
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 3040
tnnnaatcnc nnnaagcctt tgttnaaccc ctttgctact ngcnctttttt gcaggatccc 60
atcgcttcna attcggcacg aggttatncc agtatctgnc ancagaatgg cattgtgccc 120
atcgtggagc ctgagatcct ccctgatggg gaccatgact tgaagcgctg ncagtatgtg 180
accgataaag gtgctggctg ctgtctacan ggctctgagt gaccaccaca tctacctgna 240
aggcaccttg ctgaagccca acatggtnac cccaggccat gcttgcactc anaagttttc 300
tcatgangag attgccatgg cgaccgtcac ancgctgcnc cgcacagngc cccccgctgt 360
cactgggatc accttcctgt ctggaggcca nactgacgag gangcttaca tcaacctaaa 420
tgccattaac aagtgcccnn tgctgaancc ntgnnccctg accttcttct actgncgagc 480
nctgcangcc tctgcnctga acgcctgngg cggnaataag gagaacctga agctgctcac 540
gaagaatntg tcaagcgaac cctgncnaac agccntgcct ggcaaggaaa gtncacttnc 600
gagccggtta ggctagggct tgctgcaacc gaagtcccct ctttggtntt ctaaccatcg 660
ccttttttaa nncggaaggg tgtttcccca aggattgccc cccaanaact tnnaagncct 720

ttggccccaa tttccnantt tttgaaanaa ggnaggnccg ccntnctttа nngggcttcc 780
aaaccttggg cttaganccc nggctttttt t 811

<210> 3041
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3041
nggnttcnnt ctaactnaaa cngttnggna actcncctct ntctgtngat cccatcgatt 60
cgctaacaag cgattctaaa ccacctatga gtatttcttt tagggctcac ttaaatacat 120
gtttgtatat actgtattct agccagaata attttagatc tgatcaggta gtagctaaaa 180
ttagaaaaaa acaaaataga tgcttaaaga atttgcatcc atttttgagt ctaaatcttt 240
taaaatatac tgagatccac atctagtgaa atgtcagtgt caaaatatta tagattatag 300
ctaaaatcca gattaatact catttggggt tttttatagt ggaacttcat agtaatacaa 360
aaagcagatt gtcttcctgt ctccgctgct cccacagtag gtattgaaac tggtaaaatc 420
agttttttga tagtgtgtgt atataagaaa aaatagatac acacattctt ttttctcagt 480
caacacattg attgaacact ctggcaaaga tgctgtggtg gatgangttg gagttcgaaa 540
agaagaagca agcgctggcc tgccttgaaa gaacccgaaa gtctttccca ttcacttctc 600
tagaaagctg ccaagacaga ngcagaaagg aaatggatga tagttctgtc aagcacactt 660
ctgntctcnt agaacttaga aatggttcta agagaacaga agttatngag aacagttcnt 720
gtggaattca acatcttggg tgggacncat tggcttt 757

<210> 3042
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3042
gnnacantga acggaaagtc ccnatcnntg naggatccca tcgatnngaa ttcngcacga 60
gccccactcg gggtatgtga atgcccnttt tgantaagga agtgcccatc ttcacaaagn 120
agcgcattga cttcacccct tccgagcgca ttaccagtct tgncgtctcc agcaatcagc 180
tgtgcatgag cctgggcaag gatacactgc tccgcattga cttgggcaag gcaaatgagc 240
ccaaccacgt ggagctggga cgtaaggatg acgcaaaagt tcacaagatg ttccttgacc 300
atactggctc tcacctgctg attgccctga gcagcacgga ngtcctctac gggaacccac 360
ttgagaaggc tgcctcctag gctctgctca gtcatcttgc aattgccaca ctgtgaccac 420
gntgacggga gtagagtagc gctgtnggcc angaggtgtc aagtgtgagt gaattctgcc 480
agcttctcat gctgnnttca nanctgcagt tatgccagac catcagcctg cctncagnag 540
aggcccttca cctggagaag tcagaaatct gacccaattt ccacccccctg gnctcnagca 600
cctcttctgn ccctggcatt cccccacnca cgnnnctggt tnaccctcga gaagagaaga 660
nanaagagaa gcaccctnnc tttccgactg gtaaannтct ggcgggcctt ttggaaancc 720
canctcctnt tntctcagaa ggaagccnnt nttcttccct cctggnctga aaggtgtncc 780
aaaaaanc 788

<210> 3043
<211> 788

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3043
gnnacantga acggaaagtc ccnatcnntg naggatccca tcgatnngaa ttcngcacga 60
gccccactcg gggtatgtga atgcccnttt tgantaagga agtgcccatc ttcacaaagn 120
agcgcattga cttcaccccc tccgagcgca ttaccagtct tgncgtctcc agcaatcagc 180
tgtgcatgag cctgggcaag gatacactgc tccgcattga cttgggcaag gcaaatgagc 240
ccaaccacgt ggagctggga cgtaaggatg acgcaaaagt tcacaagatg ttccttgacc 300
atactggctc tcacctgctg attgccctga gcagcacgga ngtcctctac gggaacccac 360
ttgagaaggc tgcctcctag gctctgctca gtcatcttgc aattgccaca ctgtgaccac 420
gntgacggga gtagagtagc gctgtnggcc angaggtgtc aagtgtgagt gaattctgcc 480
agcttctcat gctgnnttca nanctgcagt tatgccagac catcagcctg cctncagnag 540
aggcccttca cctggagaag tcagaaatct gacccaattt ccacccccctg gnctcnagca 600
cctcttctgn ccctggcatt cccccacnca cgnncctggt tnaccctcga gaagagaaga 660
nanaagagaa gcaccctnnc tttccgactg gtaaannтct ggcgggcctt ttggaaancc 720
canctcctnt tntctcagaa ggaagccnnt nttcttccct cctggnctga aaggtgtncc 780
aaaaaanc 788

<210> 3044
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 3044
gngacctann gntngaaacg cnctctctgc aggatcccat cgattcgaat tcggcacgag 60
gtttcattta agaagaatga gctagataaa tgtgctcttc tggttacccc accctgacng 120
agtgcatttt tacacggnta gcaggggttg agactgcagc ctggcctgcc agccattgga 180
ggtgtttaag gaagggcaga taatgtgact ctttgcgggg tgccatctgc ttacccatta 240
ncgagcagag ggggtntntg cgggtgaccc cnagcatatn tctaggttac ttatgggcag 300
atttgtaagt gacaatactc cagctgatgc tgggaatggg gagagggccc ttgagggact 360
ttgtgntncn gtgcttctgg tttcctggcc aacccccagg gtcaacttng tcttggatgc 420
ccaancttgg gcactaatgt ctgncacctg actatgtnaa antgtntaaa tgattcctct 480
antttnggna tgagatcttc caatccanag gaancccnnc tttggacttg ccttgggtta 540
aatcttgcat ancntaaagt ggttngatga agttcatctg aagaaattta nggcccaacn 600
tncnaancct tnccccattc ntgcttccct tttgaaactt ggcttctggg gaaactcnng 660
ccagaagtnc ttgnggacac cannectntt tnggggntc tcaaggncgt tcccnttngg 720
nctgtnnccc aaagncnnaa nngantcnng tngcntnnat tnggaaggaa ttnctggntn 780
cctangttgn ntnnattncn aaac 804

<210> 3045
<211> 774
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3045
cngtctaaac cnttggctac ttgctctttn tgcaggatcc catcgattcg aattcggcac 60
gaggcaggag aatcacttga accctgnagg tggcggttgc agtgagcnca gatcatgcca 120
ctgcactcca gcctgggcaa caaaacgaga cttcgtctca aaaaaaaaaa acntagaatt 180
tggatccttt ggtcgggttc tcccaaattc ttttgaggtg tccatggtca actgcttcag 240
ctttgttttg gcaacccccc gcccgaagtc gcatataggc tgttcttcac cttgtttcca 300
aggctgagga acagaaagta gcctctgttt tgaggaggtg gaagttaagt atacatttat 360
tttttactgt gacttgtcag gaccacattt tacaaaatgc cttgtttcct tcattgnttc 420
tggaaaagga aagttctatt aatattgntt tactttgaat atagaatagt ttttttaatt 480
agggcttatt ttgaaaaatc tgagtttaat tcaaatgttt gccaatacct tccaaagtaa 540
ggtaatattc agagacagtt gttgtgaaca agatggctta aaagaaattc ttggaatatt 600
cacattcnaa agattcctta ttaatgaatg tctttgcctt aaaatctaac caaaaaactg 660
cacatttatc ctttgggcat ttttcattat atagnggtaa caagctttag ntgccaacca 720
aattaaaatc cttaagcttt ttaaaaaaaa aaaaaaaaaa actcgngccc tttt 774

<210> 3046
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3046
cttnnnttgt nctntntctt tcaaatcgct nggctacttg ttctttttgc aggatcccat 60
cgattcggga agaggatgac tgggtatgct gtgccaccct tgagggccat gaatccactg 120
tgtggagctt ggcctttgac ccgagtggcc agcgcctggc gtcttgtagt gatgaccgta 180
ctgtgcgtat ctggcgtcag tatctaccag gcaatgaaca aggggtggca tgcagcggct 240
ctgaccccag ttggaaatgt atctgtactt tgtccggctt ccactcaagg accatttatg 300
acattgcttg gtgtcagctg acaggggctc tggccacagc ttgtggggat gacgcgatcc 360
gcgtgtttca ggaggatccc aactcggatc cacagcagcc caccttctcc ctgacagccc 420
acttgcatca ggcccattcc caggatgtca actgtgtggc ctggaacccc aaggagccag 480
ggctactggc ctcctgcagt gatgatgggg aggtggcctt ctggaagtat cagcggcctg 540
aaggcctctt gagctacctc gactttggac agagtaatga ctccccagaa aacgtcatat 600
aagaanttta ccaaccccctg aangaccaag aaggagccat tcctttgacc ttcatttaac 660
ttgggctcac tttttcttta aaactttggg tagaaaatgc agagccccag aattgctttt 720
ccttcccgnc ttttgacatg aaggccttaa gtaaaagaac ttccngaaca ttaaaaaaa 779

<210> 3047
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3047
tnctttgatg ccattgctct tgttctttnt gcaggatccc atcgattcgg cttgccttta 60

cacacggaat cgctgtgcat ccgacagagg ctgattggca catggggcac ggggattgtc 120
agctcaaaca ccgtcagcag cgttgccctt ggaaatggga tttcccagaa cagtaaacgt 180
gtctgtcctt gatttacaga gtagctacat tcctaggaaa tccagggtac attaaaactc 240
accatgttac ccaggctggt ctcaaactcc aggcctcaag caatcctcct cctgtctcca 300
cacagacggc ttctgcaggt ttggtaatct acagtacact ccttgcaggg aaaaggtgat 360
gagtcatcat ggacttattt gaccactttt tatgcatgct tagaggaaaa cagaatactg 420
ttaagagatt catctgctag ttattaagta aagaaatatc acaataggcc gggcgcagtg 480
gctcacacct gtaatcccag cattttggga ggccaaggtg ggccggatca cctgaggtca 540
ngagttcgag accagcctac caacatggtg aaaccccgtc ttntactaaa attatnaaaa 600
attagcccgg tgtagtgggt ccacgcctgt agtcccagtt actttgggaa gcttaagcat 660
taagaattgc tttgaaccca ggaagttgga ngttggangt gaacccnaaa tgtgccctgn 720
acttcancct ggaacagant gagacacttg tncncaaaaa aaaaaat 767

<210> 3048
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3048
ttngncgact nnanctntac annaatcctt tggttacttg ccngcaggat cccatcgatt 60
cgaattcggc acgaggcagg gagttgcttg ggtggccgct aacnccaggc tactcttatt 120
ttagcttgct aagttgagat cagctagacc tgctttcttt tctcctcagt cttgcatttc 180
cctcaataca agctgtagcc tctttcctcg tttctagtct cagaaggaag gagagggaag 240
ccattctcct ctagggactc ttcagtctca tttagatgat agtccctttt tttctacctc 300
catattagag atggagctcc ttccttttcc tgtttcttaa tttttgtctt ctcattcctg 360
cttccctctc accctattgc cagttccacc aactagagtg aaagacttcc tagccatttc 420
attaaatcta ttctgtatcc accaggtggc agcatcttgt catacgtgtc aggacttagg 480
actgcggggt ttaggttana tgtcacggaa aaagctagtt ctgtggtcag gcggcaccaa 540
tgagaaagga atgcagaccc ttcagatgta tccttgggaa aagcagtaaa ccaactaata 600
tttattgaag gacctacttt gtccttacat agggnanctt ctgtcaggga atcntgggtt 660
cttnccaaga aacactgatt ttctttcang gagacttcat ggggtcattt atttccccac 720
agcagaattt aagaaattat tatatggaat attggatatc tataaagagc 770

<210> 3049
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3049
gcngnctacn gaaacccttg gctactngnt ctttntgcag gatcccatcg attcgaattc 60
ggcacgaggg aaccatgaga accgaagcta gaattgctat tgaattactt tattttctct 120
tcccttattg ggtagagata catcattact ggcctcaggg gtttacccaa agaaagggta 180
tttttgagca aataatgtga tttcctggct attttgttgg gggcttaaga ttttttttt 240
tcaaatgcat ttttagtcac taaaaattaa ctgtcgtacc atctagaact atactgtcca 300
gtaccatagc ctctagccgt atgtagctat ttgtattaag attaattgaa attttaaatc 360
cagttcctca gtcacactag ccactttcta agtgctcagt agctctgtgt gaccagcggc 420

tactgtattg gatattatag aaggttcttt cattcaagat catcattctt gacagaccca 480
taaatatttc ctataaagac tgtagaagtg tgttctggaa gggtttgctc tccaaaaaga 540
attgtaatat agagtagaat tgggatagag tattgaagac actgggttta gacattggat 600
attttaatga ttgngtgttc taattcatgt gctgccactg agttatctag tgatatgacc 660
tcactgcttg accaaaagcc cggaatagaa ggcaggattc ctggaatcta tcttaaaaat 720
ttgcaatgga anaacctttt ccctaaatta tcccattatg gtaan 765

<210> 3050
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 3050
gnnnnnnntt tnaaaccctt ggctactngt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg ctagactcaa gctgtctgga gagtgtgaaa caaaagtgtg tgaagagttg 120
taactgtgtg actgagcttg atggccaagt tgaaaatctt catttggatc tgtgctgcct 180
tgctggtaac caggaagacc ttagtaagga ctctctaggt cctaccaaat caagcaaaat 240
tgaaggagct ggtaccagta tctcagagcc tccgnctcct atcagtccgt atgcttcaga 300
aagctgtgga acgctacctc ttnctttgag accttgtgga gaagggtctg aaatggtagg 360
caaagagaat agttccccag agaataaaaa ctggttgttg gccatggcag ccaaacngaa 420
ngctgagaat ccatctccac gaagtccgtc atcccagaca cccaattcca ggagacagag 480
cggaaagaca ttgncaagcc cggcaccatc acgcccagct tcatgaggaa aatctgcaca 540
tacttccata naaagtccca ggangacttt ctgtggtcct gaacactcaa ccagaattat 600
angattctaa tctgagttga gttactgagc ttttggtccc acttaaaaca aagcttgaag 660
cttntggtnc cacttaaaaa ccanggaatg aaaananttc ccaagaagtn ggacttcttn 720
ttaactnctt gggncntttt tangaaaang cttgcccntt tttcaaattt tttangccaa 780
aaantcnttt tttcaaaccc ctttgaaaat ngccc 815

<210> 3051
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 3051
gaanccctttt ggctactcgc tctttntgca ggatcccatc gattcgcaaa gatcagaagt 60
cctggcaaga atcacanatg gaaaaacnac aattctagac agagagcagt cactggatca 120
ggcagtcact tgtgtgattt gaagctagaa ggtccaccgg aggcaaatgc agatcctctt 180
ggtgttttga taaacagtga ttctgagtct gataaggagg agaaaccaca acattctgtg 240
atacccaagg aagtgacacc agccctatgc tcactaatga gtagctatgg cngtctttca 300
gggtcagaga gtgagccaga agaaactccc atcaagactg aagcagacgt tttggcngaa 360
aaccangttc ttgatagcag tgctcctaan agtccaagtc aagatgttaa agcaactgtt 420
agaaattttt cagaagccaa gagtgagaac cgaaagaaaa gctttgaaaa acaaacccta 480
ngaggaaana agatttcaca actatcaaac gttattcgaa ccangaacac accatccata 540
tctcttggaa atgcttctag cttccggaca ttcgacatga aaagaaatgt gatttgcant 600
gtggccggtn cctcatcaaa aaagactttt tggctggatc tattctgcga aagtaagatg 660
ttagctctgg ggttacttct actgaanntg tgaacattct cctntttgtn gaggaa 716

<210> 3052
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3052
ggnnnnnnnn nnttgnngtt nannnctttt ttncntncnn ntttgaaacc ctttggctac 60
ttgntctttt tgcaggatcc catcgattcg gccgccgggg cgcaatgcga gcggctggng 120
taggcttggt ggactgtcac tgccacctct ccgccccgga ctttgaccgc gatttggatg 180
atgtgttgga gaaagccaag aaggccaatg ttgtggccct tgtggcagtt gccgaacatt 240
caggagaatt tgaaaagatt atgcaacttt cagaaaggta taatgggttt gtcctgccat 300
gcttgggtgt tcatccagtt caaggacttc caccagaaga ccaaagaagt gtcacactaa 360
aggatttgga tgtagctttg cccattattg agaattataa ggatcggttg ttggcaattg 420
gagaggttgg actagatttc tcccccagat ttgctggcac tggtgaacag aaggaagagc 480
aaagacaagt cctaatcaga cagatccagt tagccaaaag actaaatttg cctgtaaatg 540
tgcactcacg ctctgctgga agacctacca tcaacctttt acaagagcaa ggtgctgana 600
aggtactgct gcatgcattt gatggtccgg ncatctgtag ccatggaagg agtnagaanc 660
tgggtacttc ttctcaattt ccccttctat cataagaaat ggacagcang aaacttgtga 720
aacaattgnc tttacttcta tatgcttaga aacagatcac ctgactagga cnanaaaaca 780
ggtcc 785

<210> 3053
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3053
gtnnnnncan tnattccccn nanaaaacct ttggctactt gctctttttg caggatccca 60
tcgattcgaa ttcggcacga ggtttcacat ttgctgccat gagcaaagan gaggtcgaca 120
ggtacaattt tgtgatgctg gccctgtcct cctcattcct ggtgttatcc tatctcttga 180
cccgttggtg tggcagcgtg ggcttcatct tggccaactg ctttaacatg ggcattcgga 240
tcacgcagag cctttgcttc atccaccgct actaccgaag gagcccccac aggcccctgg 300
ctggcctgca cctatcgcca gtcctgctcg ggacatttgc cctcagtggt ggggttactg 360
ctgtttcgga ggtattcctc tgctgtgagc agggctggcc agccagactg gcacacattg 420
ctgtgggggc cttctgtctg ggagcaactc tcgggacagc attcctcaca gagaccaagc 480
tgatccattt ctcaggactc agttaggtgt gcccagacgc actgacaaaa tgacatgact 540
tcagggaagc ctggacaccc gangcacctg gaccaactat gggtaagttc ttgtgggtgg 600
aacancattc tgtgtaagaa cccacttgan ggcnttttgc aaaccggaat tgacaggnaa 660
ccccagaana ttaaggcacc acaaaagtgc ccccttgcat gaaaacacct tgtgaaccat 720
ttcnaantct tgaaatgccg gggggggggaa gtttcaattt tttaagggaa agaaccaaaa 780
gccccttttnt 790

<210> 3054
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3054
gnntgntttn nnntctttga tcccttcttt caaatcnttt ggctacttgt tctttttgca 60
ggatcccatc gattcgaatt cggcacgagg ggtgttggag cagattntag ttgatccaca 120
gcaaagagca tcaccaaagc cattccagga ggaactagat ccaccacttc ctctgctggg 180
catgctccaa aaatggttgt ggcttccaga gaggactcca aaagaaagca caaaaactag 240
acagtgggag ggcataccca aaagccctga gtttctgaaa aaatattgaa agtttctatg 300
gtgaaatagg aagttaatgt gcttaggaag aaaaaagtgg taatgattca aggaaacata 360
atcacacacg gttttagttt taatggacat gggaggagcc ataaaagtag tctatctatc 420
atcagttaca tatctaatga actgtctatc tgggataccc tatcctgttt taatctgagt 480
gactctctct cagctgagag agctggacag actccatttt agcctcttca cttgcagtcc 540
ccttatcccc cttccttaag ggaataacta gtgcaagctg actccaagca catncaggaa 600
tgcacttact gataaagata ttgangcaag ttgtaccagc agctcctggg gacgtgctca 660
ntggatggtn ccaagcccct gcatttatct ctttgngata gtntaaaccc ctgcacctgg 720
aactgtgatt tttctgtact atctctgtac cctnaatttt ttttactttn 770

<210> 3055
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3055
tncttgaanc cctttgctac ttgttctttn tgcaggatcc catcgattcg cgtctgtaat 60
cccagctgct tgggaggctg aggcaggaga ntcacttgaa ccctggaggt ggcggttgca 120
gtgagcacag atcatgccac tgcactccag cctgggcaac aaaacgagac ttcgtctcaa 180
aaaaaaaaac cntagaattt ggatcctttg gtcgggttct cccaaattct tttgaggtgt 240
ccatggtcaa ctgcttcagc tttgttttgg caacccccctg cccgaagtcg catataggct 300
gttcttcacc ttgtttccaa ggctgaggaa cagaaagtag cctctgtttt gaggaggtgg 360
aagttaagta tacatttatt ttttactgtg acttgttcag gaccacattt tacaaaatgc 420
cttgtttcct tcattgnttc tggaaaggaa agttctatta atattgtttt actttgaata 480
tagaatagtt tttttaatta gggcttattt tgaaaaattc tgagtttaat tcaaatgtat 540
gccaatacct tccaaagtaa ggnaatattc agagacagtt gttgtgatca gaatggctta 600
gagaaatttc tggaatattc acattcgaag attccctatt aatgaaatgn ctttgacctt 660
aaaatttacc caaaaacttg caaccattaa ttcntttgga ccatttttca ttatatagng 720
gttaaacaag ctttagttgc caaaccaaat taaaattcct taaagctaaa aaaaaaaaaa 780
aant 784

<210> 3056
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3056
cgnttaaann ccttcactcn ntcgtttgaa gncnnttggc gattcgaatt cggcacgaga 60
taacacacat cacagtatgc tctcagaaat ttctttattt gaaccctata ccaatatctg 120
ttgatcaatg accatttttg ctcagcatgg agaaacagtg ccctgcatga agggtagtga 180
gaataaaaag gatcttacca cctttatcat gagggtggct ttgctctctc cattccaagt 240
tgttctctgt tctagaaagc agatgtagta gacatctact gtttttgcct aaacagaatc 300
ccttttтcct ttttttgtta aaagtactca tccctaatat tacattgttc tggaaggact 360
gaaaataaca gaactcagca ccatgatcgg accgggacaa tcagattatt tcattcctca 420
gcaaacggag atcgatccga aaagtggaaa tatgagctct tctttggtgt tggcatatgg 480
accctgagag aaagaacttt aatttttтct cttggactgc aataaagtat agctgcctaa 540
aatacgtttc ctgacacttg gaggtttgtc cacaatcggt gaaataaagg caagacgtaa 600
caactggatg aaaaaaaaaa nnnnnnnaaa aaaaaaaact cgagcctttt aaaactatta 660
gtgagtcgna ttaccgtana tcccggacat ggatangatn cattgatgaa gtttggacca 720
aacccccaac ttggaatgcn ntgnaaaaaa atgctttaat ttggngaaat ttggggatg 779

<210> 3057
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3057
ttancctata ancgtctatg aagcctttgc tattngncaa tggatgcagg aaaactgaga 60
tgggatttcc ccacgttgcc caggctggtc tcctgagctn aaagcaatcc agattgctgg 120
gattacagct gtgagccacc gtgcctggct gagatgactt ttaaaaaaag acttctctaa 180
agtagaagga agggtggaat tgtatgcaca agaagaaaaa aacctggaag aaaaacatac 240
taaagaggct ggagtgcaat ggcgcgatct tggctaccgc aacctccgcc tcccgggttc 300
aagtgattct cctgcctnag cctcccaggt agctgggatt acaagcatgg gccaccacgc 360
ctggctaatt tgtatttta gtagagacgg agtttctcca tgttggtcag gctggtctcg 420
aactaccgac ctcaggtgat ccacccacct cggcctccac agtgctggga ttacaagcat 480
gaaccaccgn gcccggnctc ctgttccagt tttctataat ctggtcatat tatattctgg 540
gtatatgtgg gtggtgtgat tatccatgtg gtcttatttt cacattcttt gcattaacta 600
taatgactta atgttttaag ataagtttca tttcttcaaa agatgtatgt ncaatacctg 660
ggtatcaggt aacaatctta aaaaaactta ttcatttaaa aattaacctt taaaattagc 720
cattccaatt naacattaag ganggttgng agga 754

<210> 3058
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3058
nttaanttnt gatngtcnat aaggccttta tcgattcgcc aatggatgca ggaaaactga 60
gatgggattt ccccacgttg cccaggctgg tctcctgagc tcaaagcaat ccagattgct 120
gggattacag ctgtgagcca ccgtgcctgg ctgagatgac ttttaaaaaa agacttctct 180
aaagtagaag gaagggtgga attgtatgca caagaagaaa aaaacctgga agaaaaacat 240
actaaagagg ctggagtgca atggcgcgat cttggctcac cgcaacctcc gcctcccggg 300

ttcaagtgat tctcctgcct cagcctccca ggtagctggg attacaagca tgggccacca 360
cgcctggcta attttgtatt tttagtagag acggagtttc tccatgttgg tcaggctggt 420
ctcgaactac cgacctcagg tgatccaccc acctcggcct cccacagtgc tgggattaca 480
agcatgagcc accgcgcccg gcctcctgtt ccagttttct ataatctgtt catattatat 540
tctgggtata tgtgggtggt gtgattatcc atgtggtctt attttcacat tctttgcatt 600
aactataatg acttaatgtt taagataagt ttcattctac aaagatgtat gtacaatacc 660
tggtatcagg taacaatctt aaaaaaaact aattcattta aaaataaaca ttaaaattag 720
ccaatccaat taaccntaaa gacagtttgt ganga 755

<210> 3059
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3059
nttaanttnt gatngtcnat aaggccttta tcgattcgcc aatggatgca ggaaaactga 60
gatgggattt ccccacgttg cccaggctgg tctcctgagc tcaaagcaat ccagattgct 120
gggattacag ctgtgagcca ccgtgcctgg ctgagatgac ttttaaaaaa agacttctct 180
aaagtagaag gaagggtgga attgtatgca caagaagaaa aaaacctgga agaaaaacat 240
actaaagagg ctggagtgca atggcgcgat cttggctcac cgcaacctcc gcctcccggg 300
ttcaagtgat tctcctgcct cagcctccca ggtagctggg attacaagca tgggccacca 360
cgcctggcta attttgtatt tttagtagag acggagtttc tccatgttgg tcaggctggt 420
ctcgaactac cgacctcagg tgatccaccc acctcggcct cccacagtgc tgggattaca 480
agcatgagcc accgcgcccg gcctcctgtt ccagttttct ataatctgtt catattatat 540
tctgggtata tgtgggtggt gtgattatcc atgtggtctt attttcacat tctttgcatt 600
aactataatg acttaatgtt taagataagt ttcattctac aaagatgtat gtacaatacc 660
tggtatcagg taacaatctt aaaaaaaact aattcattta aaaataaaca ttaaaattag 720
ccaatccaat taaccntaaa gacagtttgt ganga 755

<210> 3060
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3060
ctttnaatcc cttgcactcg tcttntgnag gaccttatcg attcgaattc ggcacgagat 60
aacacacatc acagtatgct ctcagaaatt tctttatttg aaccctatac caatatctgt 120
tgatcaatga ccatttttgc tcagcatgga gaaacagtgc cctgcatgaa gggtagtgag 180
aataaaaagg atcttaccac ctttatcatg agggtggctt tgctctctcc attccaagtt 240
gttctctgtt ctagaaagca gatgtagtag acatctactg tttttgccta aacagaatcc 300
ctttttcctt tttttgttaa aagtactcat ccctaatatt acattgttct ggaaggactg 360
aaaataacag aactcagcac catgatcgga ccgggacaat cagattattt cattcctcag 420
caaacggaga tcgatccgaa aagtggaaat atgagctctt ctttggtgtt ggcatatgga 480
ccctgagaga aagaacttta atttttctc ttggactgca ataaagtata gctgcctaaa 540
ataccgtttc ctgacacttg gaggtttgcc acaatcggtg aaataaaggc aagacgtaac 600
actggatgaa aaaaaaaaan nnnnnnaaaa aaactcgagc ctntagaact atgtgatcga 660

ttcgtagatc cagaatgata gatcattgtg agtttggaca accacactng atgcagtgaa 720
aaaatcttat tgngaattgn gatn 744

<210> 3061
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3061
ctttnaatcc cttgcactcg tcttntgnag gaccttatcg attcgaattc ggcacgagat 60
aacacacatc acagtatgct ctcagaaatt tctttatttg aaccctatac caatatctgt 120
tgatcaatga ccatttttgc tcagcatgga gaaacagtgc cctgcatgaa gggtagtgag 180
aataaaaagg atcttaccac ctttatcatg agggtggctt tgctctctcc attccaagtt 240
gttctctgtt ctagaaagca gatgtagtag acatctactg tttttgccta aacagaatcc 300
ctttttcctt tttttgttaa aagtactcat ccctaatatt acattgttct ggaaggactg 360
aaaataacag aactcagcac catgatcgga ccgggacaat cagattattt cattcctcag 420
caaacggaga tcgatccgaa aagtggaaat atgagctctt ctttggtgtt ggcatatgga 480
ccctgagaga aagaacttta atttttctc ttggactgca ataaagtata gctgcctaaa 540
ataccgtttc ctgacacttg gaggtttgcc acaatcggtg aaataaaggc aagacgtaac 600
actggatgaa aaaaaaaaan nnnnnnaaaa aaactcgagc ctntagaact atgtgatcga 660
ttcgtagatc cagaatgata gatcattgtg agtttggaca accacactng atgcagtgaa 720
aaaatcttat tgngaattgn gatn 744

<210> 3062
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 3062
nttnnnnnat aannttnatn agncttgcac ttgctctttt tgcaggatcc catcgattcg 60
aattcggcac gagaaagccc gccacccact gtgggacttt ctggtgggct cctcagctcc 120
caccccaggc tggggcccag attgtgaggt ctgtgtgcat gtgtgtgtgt atgtgtgtgt 180
gcatgcgtgt gtgtgttgtg gggatctggc ctggcccttg gggatggggc tgctggggac 240
tgcccccctt cccgccgtgg ccaggcgctc tgtgtgctgt gtgtgcccca ggctctgttg 300
accccgtcca ggaactaact tacccagctt ggtctctcct gagtcctcca ccctggcctg 360
ggattggcca gggagcaggg cgggcattgg gaccagtgtg gagcctgagg gtgcctgccc 420
tgctctggag ggagggccag gagctgccac acccccaagt cctctcaggg cccaccctcc 480
tttttcagcc tctgcataag gcccctgggt acactgcaga agccccatcc ttcccgcttc 540
gggcataagg cccctgacca cacttcagaa gccccatccc ccctgcaccg ggcgatccct 600
gctgtnagcc gaactntctg cccgctgcca tgtgtcgtgt ttggtgnaga cctgatgtct 660
gtntgtgtcc aaacgggctc aagagcctca caatctgggt agctgaccca gtacgtgt 718

<210> 3063
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3063
cgnttaaann ccttcactcn ntcgtttgaa gncnnttggc gattcgaatt cggcacgaga 60
taacacacat cacagtatgc tctcagaaat ttctttattt gaaccctata ccaatatctg 120
ttgatcaatg accatttttg ctcagcatgg agaaacagtg ccctgcatga agggtagtga 180
gaataaaaag gatcttacca cctttatcat gagggtggct ttgctctctc cattccaagt 240
tgttctctgt tctagaaagc agatgtagta gacatctact gtttttgcct aaacagaatc 300
ccttttтcct ttttttgtta aaagtactca tccctaatat tacattgttc tggaaggact 360
gaaaataaca gaactcagca ccatgatcgg accgggacaa tcagattatt tcattcctca 420
gcaaacggag atcgatccga aaagtggaaa tatgagctct tctttggtgt tggcatatgg 480
accctgagag aaagaacttt aatttttttct cttggactgc aataaagtat agctgcctaa 540
aatacgtttc ctgacacttg gaggtttgtc cacaatcggt gaaataaagg caagacgtaa 600
caactggatg aaaaaaaaaa nnnnnnnaaa aaaaaaaact cgagcctttt aaaactatta 660
gtgagtcgna ttaccgtana tcccggacat ggatangatn cattgatgaa gtttggacca 720
aacccccaac ttggaatgcn ntgnaaaaaa atgctttaat ttggngaaat ttggggatg 779

<210> 3064
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3064
tnnnnnttnn atnttgccct tgnctntgaa ggcttnctcg attcgaattc ggcacgagaa 60
gctgctaggt tccagtttta atttttaggt ttagttggac tctgttatga aaagataggt 120
tatgggtggg cgacaggttg atacagtctt agaaaaagca ggtaatatca aagtattgga 180
aagctagcat gcatgccctc ttacctgggt atcttccccc ttttttcctt ttaaactctt 240
gagcctccta taacgaagga ttatgtgttt caaacctttt ttttttactg tttcattaag 300
tgtgcttgtg cccaaaatat ttacttgtat aatatctgta cttgcttaaa tacttcagca 360
aagtcagcat atttactcat tcaacaaata tttgagccag gcattatttt agacacagca 420
gtgaacaaaa caaaaaggca ttcttgcctt catggagctt acattcttat tggtatttaa 480
atctaaatgt tataaaacaa gaatttatat tctagggttg atcagctagt atttaatcaa 540
aaangccaca ctcccatagc agctctctaa gctgtagtag ctaataaaaa atattaatgg 600
tggccgggca cagtgctnac gcctattaat cccagcactt tgggangcca aggtggtaga 660
tcacttgagg tcaaaagtgt gacccagcct ggccaacctg gtgaacccta tctctttaaa 720
aaatccaaaa aatccaaaaa aattacttgg gctg 754

<210> 3065
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3065

cgnttaaann ccttcactcn ntcgtttgaa gncnnttggc gattcgaatt cggcacgaga 60
taacacacat cacagtatgc tctcagaaat ttctttattt gaaccctata ccaatatctg 120
ttgatcaatg accatttttg ctcagcatgg agaaacagtg ccctgcatga agggtagtga 180
gaataaaaag gatcttacca cctttatcat gagggtggct ttgctctctc cattccaagt 240
tgttctctgt tctagaaagc agatgtagta gacatctact gtttttgcct aaacagaatc 300
ccttttttcct ttttttgtta aaagtactca tccctaatat tacattgttc tggaaggact 360
gaaaataaca gaactcagca ccatgatcgg accgggacaa tcagattatt tcattcctca 420
gcaaacggag atcgatccga aaagtggaaa tatgagctct tctttggtgt tggcatatgg 480
accctgagag aaagaacttt aatttttttct cttggactgc aataaagtat agctgcctaa 540
aatacgtttc ctgacacttg gaggtttgtc cacaatcggt gaaataaagg caagacgtaa 600
caactggatg aaaaaaaaaa nnnnnnnaaa aaaaaaaact cgagcctttt aaaactatta 660
gtgagtcgna ttaccgtana tcccggacat ggatangatn cattgatgaa gtttggacca 720
aacccccaac ttggaatgcn ntgnaaaaaa atgctttaat ttggngaaat ttggggatg 779

<210> 3066
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3066
gnttgaatcc ctnncanatc ncttggntgc aggatcctat cgattcgaat tcggcacgng 60
annacacaca tcacagtntg ctctcagaaa tttctttatt tgaaccctat accaatatct 120
gttgatcaat gaccattttt gctcagcatg gagaaacagt gccctgcatg aagggtagtg 180
agaataaaaa ggatcttacc acctttatca tgagggtggc tttgctctct ccattccaag 240
ttgttctctg ttctagaaag cagatgtagt agacatctac tgtttttgcc taaacagaat 300
ccctttttcc tttttttgtt aaaagtactc atccctaata ttacattgtt ctggaaggac 360
tgaaaataac agaactcagc accatgatcg gaccgggaca atcagattat ttcattcctc 420
agcaaacgga gatcgatccg aaaagtggaa atatgagctc ttctttggtg ttggcatatg 480
gaccctgaga gaaagaactt taatttttttc tcttggactg caataaagta tagctgccta 540
aaatacgttt cctgacactt ggaggtttgt ccacaatcgg tgaaataaag gcaagacgta 600
accctggatg aaaaaaaaaa nnnnnnaana aaaaaactcg agcctntaaa ctatagtgag 660
tcgattcgta gatccagaca tgatagatcc ttgatgagtt tggacaacca cactngatgc 720
atgnaaaaat cttattgnga attgggag 748

<210> 3067
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3067
gnttgaatcc ctnncanatc ncttggntgc aggatcctat cgattcgaat tcggcacgng 60
annacacaca tcacagtntg ctctcagaaa tttctttatt tgaaccctat accaatatct 120
gttgatcaat gaccattttt gctcagcatg gagaaacagt gccctgcatg aagggtagtg 180
agaataaaaa ggatcttacc acctttatca tgagggtggc tttgctctct ccattccaag 240
ttgttctctg ttctagaaag cagatgtagt agacatctac tgtttttgcc taaacagaat 300
ccctttttcc tttttttgtt aaaagtactc atccctaata ttacattgtt ctggaaggac 360

tgaaaataac agaactcagc accatgatcg gaccgggaca atcagattat ttcattcctc 420
agcaaacgga gatcgatccg aaaagtggaa atatgagctc ttctttggtg ttggcatatg 480
gaccctgaga gaaagaactt taatttttc tcttggactg caataaagta tagctgccta 540
aaatacgttt cctgacactt ggaggtttgt ccacaatcgg tgaaataaag gcaagacgta 600
accctggatg aaaaaaaaaa nnnnnnaana aaaaaactcg agcctntaaa ctatagtgag 660
tcgattcgta gatccagaca tgatagatcc ttgatgagtt tggacaacca cactngatgc 720
atgnaaaaat cttattgnga attgggag 748

<210> 3068
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3068
gnttgaatcc ctnncanatc ncttggntgc aggatcctat cgattcgaat tcggcacgng 60
annacacaca tcacagtntg ctctcagaaa tttctttatt tgaaccctat accaatatct 120
gttgatcaat gaccattttt gctcagcatg gagaaacagt gccctgcatg aagggtagtg 180
agaataaaaa ggatcttacc acctttatca tgagggtggc tttgctctct ccattccaag 240
ttgttctctg ttctagaaag cagatgtagt agacatctac tgtttttgcc taaacagaat 300
ccctttttcc tttttttgtt aaaagtactc atccctaata ttacattgtt ctggaaggac 360
tgaaaataac agaactcagc accatgatcg gaccgggaca atcagattat ttcattcctc 420
agcaaacgga gatcgatccg aaaagtggaa atatgagctc ttctttggtg ttggcatatg 480
gaccctgaga gaaagaactt taatttttc tcttggactg caataaagta tagctgccta 540
aaatacgttt cctgacactt ggaggtttgt ccacaatcgg tgaaataaag gcaagacgta 600
accctggatg aaaaaaaaaa nnnnnnaana aaaaaactcg agcctntaaa ctatagtgag 660
tcgattcgta gatccagaca tgatagatcc ttgatgagtt tggacaacca cactngatgc 720
atgnaaaaat cttattgnga attgggag 748

<210> 3069
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3069
ggnnnnnntc ttttcnaatg cttggctctc gttctttntg caggatccct cgattcgcaa 60
gagagagtga tagaattggc agtgaaatat acgaaccacc ctcctgccct ctgggttcac 120
aatacgtgta cacttgactg tgaagtggct gtgagagtgg gtggagagtt cttctttgac 180
cctcagcctg cggatgcctc tagaaacctc gtgttgattg caggaggagt cggaattaac 240
cctctgcttt ccatcctgcg gcacgcagca gatctcctca gagagcaggc aaacaaaaga 300
aatggatatg agataggaac aataaaacta ttctacagtg caaaaaatac cagcgaactc 360
ctgtttaaga aaaatatcct tgatttagta aatgaatttc ctgagaagat tgcatgcagt 420
ttgcatgtta caaaacagac tacacaaatc aatgcggaac tcaagccata catnacggaa 480
ggaagaataa cggagaagga gataagagat catatttcaa aagagacttt gttctatatt 540
tgtggccacc ttcaatgaca gacttttttct ccaagcaact ggaaaacaac catgtcccaa 600
agaacacatt tgctttgaga agtggtggta ggaggcagac aaaggcagaa aaaattaaga 660
ggtgagatct actcaggaga gctcaaaann aaaaaaaaaa aaactnggac ctntagaact 720

atagtgagtc gtnttccgta gatccagaca tgataa 756

<210> 3070
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3070
gnnttnnaan ttaacagctc tcgtnctttt tgcngatccc atnnattcga attcggcacg 60
agtgatgcct tagtcacttg gccacacagt tttgtggttt acgagtcatg ggaattgctt 120
gtcttactct gactgctaaa gttctgtcct attgtctttt catgtaatag caacatgact 180
ctgatgacaa agcccaacta attacacaac ttaatttaat agtttaaagc gcaaagggca 240
ttccctgagc agtaaaatct tttgtttgga aattttaaaa caaattatat tttactttat 300
gttttatatt taccntaata agtatttaca agaacacaat tttctcaaga tttaaactgc 360
tcattgttcc ataaatagga cacacattta gaaagaggat tttttttaa aggaatattt 420
tagtgattac ttctggctaa aaacatgaaa ctcttttagt gcttgatgtt actggaaact 480
tgctctagat tatttttga atctttgctg ngagggtaaa aatagaaatg ttttcctccc 540
aattattgct ttgaattaaa attttgtgtc tgggtgaaat ttcctctggc ttaatgcatg 600
accaggctgg tagaaaatgt ttcacctaaa tcctcttatt tttggtaaaa cattcataat 660
nccaaaccct aatagtttgg naaggcatgt gataattggt aatcccnctn ctgtcctcan 720
tttataaatt cccctgacaa cagccctgct taanaatatc acctacttct ggttggattt 780
cttnccgn 788

<210> 3071
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3071
ctttnaatcc cttgcactcg tcttntgnag gaccttatcg attcgaattc ggcacgagat 60
aacacacatc acagtatgct ctcagaaatt tctttatttg aaccctatac caatatctgt 120
tgatcaatga ccatttttgc tcagcatgga gaaacagtgc cctgcatgaa gggtagtgag 180
aataaaaagg atcttaccac ctttatcatg agggtggctt tgctctctcc attccaagtt 240
gttctctgtt ctagaaagca gatgtagtag acatctactg tttttgccta aacagaatcc 300
ctttttcctt tttttgttaa aagtactcat ccctaatatt acattgttct ggaaggactg 360
aaaataacag aactcagcac catgatcgga ccgggacaat cagattattt cattcctcag 420
caaacggaga tcgatccgaa aagtggaaat atgagctctt ctttggtgtt ggcatatgga 480
ccctgagaga aagaacttta attttttctc ttggactgca ataaagtata gctgcctaaa 540
ataccgtttc ctgacacttg gaggtttgcc acaatcggtg aaataaaggc aagacgtaac 600
actggatgaa aaaaaaaaan nnnnnnaaaa aaactcgagc ctntagaact atgtgatcga 660
ttcgtagatc cagaatgata gatcattgtg agtttggaca accacactng atgcagtgaa 720
aaaatcttat tgngaattgn gatn 744

<210> 3072
<211> 768
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3072
cactganctn ctatccttct tcnttgcagg atccnatcga ttcgaattcg gcacgagatc 60
ctgtcggtat tccttggtat ctgantnaaa taccaaatag taccatacat gagttatttc 120
taagtttgaa aagtaaaaag aaattgcatc acactaatta caaaatacaa gttctggaaa 180
aaatattttt cttcatttta aaacttttt aactaataat ggctttgaaa gaagaggctt 240
aatttggggg tggtaactaa aatcaaaaga aatgattgac ttgagggtct ctgtttggta 300
agaatacatc attagcttaa nnntncngac aanngcntnt gtaatgntgt aactgctgtt 360
aatattnant gctntngtnt gagcnacctn antntgaaca gatgngtcag cctgcatgct 420
ggacatgcct canaaccatg aatagcccgn actagatctt gngaacatgg atcttagagt 480
cactttggaa taagtnctta tntnaatacc cncagccttt tgagaacggg gcttgttaaa 540
ggacncgtat gtagggcccg tacctactgn cagttgggtt cangnaaatg ggattgactt 600
tggncttaag ntccttggtc ataatttttt aaaatatggg antnggaaaa cccccaaaga 660
atggaatgga ctcttnaaaa cantgaaaag acccttatcg gttgnccctt ggaatgtaga 720
atttggnntt nggnttnctt aattctgctt ggtnaaaggg gncagttn 768

<210> 3073
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3073
tcnctcctna aatcgttggc gctctcttgc aggatccctc gattcgaatt cggcacgagc 60
tctcaaatag aaatgggaga taagaaatat atctgtgcaa tattaaattg aaaaaaaaaa 120
cccataaaaa gtgtcaaagg caaataattt gctctagatc acaaaactag ttagcacaag 180
gctaggatta taaccagggt ctaggaaaaa atcctgaagg tgatttaact gagtgttagg 240
ccctgtcaag ccacctgcta aggctcatgg tctttcagac tagcttcaac attccaaatc 300
aggcaatagc tacaacggaa agataattgg acggggaatc ctgagatcag agtcctagtt 360
tggctttgtc tcttgtagca ggatttttta aatcaggggc agctctcttc tcccatccca 420
gccatgaatc tttcaacctt agtggtcacc aacttgactc cattccttat atcaagcctt 480
gtcctgtcaa ttctccctta aatgttagtt gcatccattt ctaaatatat ccatggccat 540
caccctagta aaaagactat tacctcacac cccgcacttg atcttccccc aactttaagt 600
gactcagttc cttatatcac tgccacaaga attaacaccc atgtccatct tttcattttc 660
tgctgaaaga ttttcagtgg ttcccacttg aatnccaaat aaagttcgaa tcccttanaa 720
tggcattcac agccttntac ttctggnccc acttttatnt 760

<210> 3074
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 3074
ntttataant ntnatncctt nctcttgntc tttttgcagg atccctcgat tcgaattcgg 60
cacgaggaac aagcacagcc caagccagat gtacagcaca cacagcatcc catggtggcc 120
aaagacaggc agcttcctac cttaatggca cagcccccgc aaactgtagt acaggtgctt 180
gcagtgaaaa ccacgcagca gctccctaaa ctgcagcagg ctccgaacca accaaaaatc 240
tacgtgcaac cccaaacccc ccagagccaa atgtcgctcc cagcttcttc agagaaacag 300
acggcaagcc aggtggagca gccaattata acccaaggat cctctgttac aaagataact 360
tttgaggggc gccagcctcc cacagttaca aagataactg gtggcagttc tgtgcctaag 420
ctgacatcac cagttacaag catatctccc attcaggcct ctgagaagac agcagtgtct 480
gacattttga aaatgtcttt gatggaagct cagattgata caaatgtaga acatatgata 540
gtggatcccc caaagaaggc tcttgccact agcatgctca ctggtgaagc aggatcatta 600
cccttccacc cacatggtgg tgcagggatg gcgaattcca cttcccagca acagaaatgt 660
agagagtcct gttcgagttc attcaccgnt ggctcttcct taacgacaag gaaaatttga 720
tccaccanca gtgccttgcn acanggccan ttnatgcgta tttcanaatg t 771

<210> 3075
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3075
atnngaagga aacaatnntc cttcgtgctc tncntgcagg atcccatcga ttcgggccgg 60
ttattctctc tttacagata gctatagaca tcattttagg aagtgttgca gtctggcatt 120
tgtgctattg ttcattctct gtgaaggctg ttcatagttg ctatagcctg tgtttagttt 180
tgtgatttca tcaatcccat ctttctgtgt gagtaatgca ttctaaacat cctaccccac 240
tttagaaacg gacgtgggga acgcttggtc atttaagcca acaataaatt taggtgaatg 300
tccctaagtg tttactgntt ttatccagtc aaggatttgc ttttccttga acatttgttt 360
taaattctgg ggccaaaatg caaaggagaa gttctattca aaggcagtag ttgaaatcta 420
ttattttagt tagcctactt ggcatttact acatcggtca cttctccagg ctgccctaaa 480
ttaggttgat ggagtgagac atgccaaaca tccacctttg ggaccatagc atagntaaaa 540
ttaaatgtag ttggaatagc tagcattgca gctacagtag ggaactgtag tctanttccc 600
taccgaaaac ccaaggagta agggacagga ttttgcctag gcaaaaatct aagactcgtg 660
cccttctggt acatggggnt taagactgaa tgtgtaatag gagactgctt tgccaatcaa 720
atgatgacag gtactgaaat ngcaatccat t 751

<210> 3076
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 3076
ntnnnnngtc taataattcn nnttctttgc nctctccatg caggatccca tcgattcgaa 60
ttcggcacga ggagaggttc acagccacca agaaagaagt ttgcgtgaag ttctccagga 120
ctatggaaac cttacaggat actgacttag aacctctgtt ggaatgtggc tgagtcaaag 180
cctcctgttg ttgttagggg tatctacagt aaggagatga tacttcagga gattatattt 240
cactcaatga tcttttctca tttcagggct cttctcaaat aagctaaaag aaaaaggatc 300

aggagacagg aaaagtcttc cgttttgagt catgagtagg gcaatagaca aggttctctt 360
caaaaccatc attagtttgg ctttaagaaa ccagtagcta gctgctattt atatggtgag 420
ggggtgctgc ctggtaacag aatagctcca caccacagct tgagattttg tttagtttca 480
ctgtgtgagc tttcataaag tctgttgcca ttccatctct gtgttaacac ttcatatttt 540
tatgaaattc agataatttg tgagaggctg gcatggatct aaggatttat tatttttatt 600
ctagtccatc aagttcaatc gcagttttat actaggacct tttaggatgg tncataaaat 660
gtgtggactg tttgnccttg anttaaaagt gccacttttg gccctggggc atggnnggct 720
tcatgcctat taatcccagc acttttggga aggnccaagg ccggttggct tcactttgan 780
gctaaggaaa ttc 793

<210> 3077
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3077
nctcnantan ctatngcttg gttnctcgnt ctntctgcag gatcccatcg attcgttcga 60
gtgcaagctc cccatctttc gaaagtttcc atggcaatac agctaactga agaactaaaa 120
gccagtgatg tacttgccag gtttctcagc caagaaagtg gggttgccca gactctcaag 180
aaaggagaag tttttttgta tgaaattgga ggaaatattg gggaacgctg ccttgatgat 240
gacacttaca tgaaggattt atatcagctt aacccaaatg ctgagtgggt tataaagtca 300
aagccattgt agaagactta acaagctgca gataaccatg tggacttctg tcataattct 360
tgctgagtca agagtgtaaa taaaagaaat ggcaggactc atattattca gttgtaccca 420
agtatttaaa aatgactctc ttaagcctta aaaagtcata gatttgtgct gctgccagaa 480
ttatattaat tattattaat gttattatta gaaaaaaaat ttctggagtg agagtaaaga 540
ggcttaatta gtttgtgggc agttttcata tgctctgtga aatgtgtcca gatgtgacat 600
agttttttt taatatgtgg aaagtcttct cttcccattc ttttctccta aaatcatata 660
tactgnaata tatgctctct nactctatta ccttcttaca tctacccttt ccanttangt 720
ttgctttttg cccaaaagat accaattcca ngtttggaag ttg 763

<210> 3078
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3078
ntnnnnngtt tgnctannaa gnctttgctc ttgntctttn tgcaggatcc catcgattcg 60
aattcggcac gagagagact agtctcgagt tnntttnttt ttttttttcac aaataaacca 120
actttaatag atnttatttn gtatttatat agtgccttct tcaagaacct taaatgcttt 180
acagacatta tctctaatta atccccacaa caaccctgtg aggtaggtat tactcccatt 240
ttacaagaca ggganactga agcacagaga ggttaagtga cttgcccaag gtcacacagt 300
taaattcact gaagagccag gacatgagcg ctttagcntc ccanntccca gccnaatacc 360
tcatgataga atctttaata aaaagtgttt ntaaagaaag tatcacgagt agttatgtta 420
tgaaaatgag gtctttntac tgccatcaag gaaagaaaaa accctatact gatggttaga 480
ggccccaaga cccacataat acaacatttn cctctttccc tgttccnaag cntcctggtt 540
cctgtcttaa ataatctttt aaaggtnaaa tttccaagac agaagccatg tgacttaaga 600

agtgggactt aattttagaa tatttacttt agttacataa atttatagga aatttttatt 660
cccatttnca aaatatggga cagccattcc aacatcatgt catagttaca cggnaatcaa 720
gtccccantt acaacttaca ccancccgn attttaatca cagtcaacca acnt 774

<210> 3079
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3079
ttancctata ancgtctatg aagcctttgc tattngncaa tggatgcagg aaaactgaga 60
tgggatttcc ccacgttgcc caggctggtc tcctgagctn aaagcaatcc agattgctgg 120
gattacagct gtgagccacc gtgcctggct gagatgactt ttaaaaaaag acttctctaa 180
agtagaagga agggtggaat tgtatgcaca agaagaaaaa aacctggaag aaaaacatac 240
taaagaggct ggagtgcaat ggcgcgatct tggctaccgc aacctccgcc tcccgggttc 300
aagtgattct cctgcctnag cctcccaggt agctgggatt acaagcatgg gccaccacgc 360
ctggctaatt tgtattttta gtagagacgg agtttctcca tgttggtcag gctggtctcg 420
aactaccgac ctcaggtgat ccacccacct cggcctccac agtgctggga ttacaagcat 480
gaaccaccgn gcccggnctc ctgttccagt tttctataat ctggtcatat tatattctgg 540
gtatatgtgg gtggtgtgat tatccatgtg gtcttatttt cacattcttt gcattaacta 600
taatgactta atgttttaag ataagtttca tttcttcaaa agatgtatgt ncaatacctg 660
ggtatcaggt aacaatctta aaaaaactta ttcatttaaa aattaacctt taaaattagc 720
cattccaatt naacattaag ganggttgng agga 754

<210> 3080
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3080
cnacnaattn acanntcact tnctnctngc nctnntngca tncgattcga attcggcacg 60
aggtgaatgc tgtgcctgtg gccccacctg tgtgtgatgt cgccagaacc cagccgactc 120
cttcagagaa agctgcagga gtcctggagg gggcccttgg gccacatgtt gtcactaacc 180
tttatctcta tccaatcaaa tcctgtgctg catttgaggt gaccaggtgg cctgtaggaa 240
accaagggct gctatatgac cggagctgga tggttgtgaa tcacaatggt gtttgcctga 300
gtcagaagca ggaaccccgg ctctgcctga tccancccct catcgacttg cggcaaagga 360
tcatggtcat caaagccaaa gggatggagc ctatagaggt gcctcttgag gaaaatagtg 420
aacggactca nattcgccaa agcacggtct gtgctgacag agtaagtact tatgattgtg 480
gagaaaaaat ttcaagctgg ttgtcaacat tttttgcccg tccttgtcat ttgatcaaac 540
aaagttcaaa ctctnaaagg aatgcaaaga agaaacatgg gaaagatcaa ctttccttgg 600
tacaatgggc cacccttttc tctgtgaatg aangccncng tatctgnttg atcaacacat 660
tccagtattt ttggaacttc accgggnaac ttnaaacacc cattgatgan aatgggaaan 720
ganggaatta tttttacttg aaaggatctt naccttgcgt tttcgtgccc aatatttatt 780
ancan 785

<210> 3081

<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 3081
cttatnnant actccgtctc taaagccttt ntcngattcg aattcggcac gagggaaaca 60
gctgactgcc actgaaagaa tnagcagttt taggggacta gctcctatgg gagataaagg 120
tcagaaatcg tagtatctga tgaagatatt ttgatgagca ggtgagaaga aagataaaca 180
tggccagatg gccaaggact gggataagta gccgtttcac attcaattag aattctgtgg 240
ctggaataag atcagggaga gcagtaggaa gatatagtat tctataattc atagcttgtt 300
gtgttagaga ttaattagga ttctgctgtt gaatcttagt acaaaaaaat ctaatattta 360
ttaggaatta agggaagatg gtacttctgt tatgttgcct aagcagacag gaagctacaa 420
gaacaccagt ctgaagcagt gcctcaggat ctcagatgat ttaggaagtg tgctgtaatg 480
tcaaaaaaaa aaaagtattg tctttagtat atctatgtat agtctcgtgg gaaaagcatt 540
ggttgtggta tcaacagata ttctgggttc cagatgtctt gnaagttaac ctgcctccca 600
tttccctttc tgtaaagcca aaataattgg ttttaccacc ctaaatctgg cctctcaagg 660
gattnccatt ntttaantna aaaaattatg gtcctantna aagtgccaaa aaaaaaaann 720
nnnnnaaaaa aaccttngga gncccctnttt anaacctttt tngtggaggt ccgnatttac 780
ccttnnnaat ncccggaacn ttggattaag gt 812

<210> 3082
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3082
cactganctn ctatccttct tcnttgcagg atccnatcga ttcgaattcg gcacgagatc 60
ctgtcggtat tccttggtat ctgantnaaa taccaaatag taccatacat gagttatttc 120
taagtttgaa aagtaaaaag aaattgcatc acactaatta caaaatacaa gttctggaaa 180
aaatattttt cttcatttta aaacttttt aactaataat ggctttgaaa gaagaggctt 240
aatttggggg tggtaactaa aatcaaaaga aatgattgac ttgagggtct ctgtttggta 300
agaatacatc attagcttaa nnntncngac aanngcntnt gtaatgntgt aactgctgtt 360
aatattnant gctntngtnt gagcnacctn antntgaaca gatgngtcag cctgcatgct 420
ggacatgcct canaaccatg aatagcccgn actagatctt gngaacatgg atcttagagt 480
cactttggaa taagtnctta tntnaatacc cncagccttt tgagaacggg gcttgttaaa 540
ggacncgtat gtagggcccg tacctactgn cagttgggtt cangnaaatg ggattgactt 600
tggncttaag ntccttggtc ataatttttt aaaatatggg antnggaaaa cccccaaaga 660
atggaatgga ctcttnaaaa cantgaaaag acccttatcg gttgnccctt ggaatgtaga 720
atttggnntt nggnttnctt aattctgctt ggtnaaaggg gncagttn 768

<210> 3083
<211> 781
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3083
tnnngnttaa nccctctct tgccttttgc ggatccctcg attcgaattc ggcacgagcc 60
aaggagtttt ccacccgtct ctcatggtca cagcgctagt cattcatttt tgagaagttg 120
cttcttttac atcagaaaac cagtcaatca tatggagact tcttttgtga tgaaaaaggg 180
ctttagaagt taaatacatg catgcacatg aaaacatgca caaccacagc ctcaatcttg 240
tatttagttt ggggaaagag aagagaattt cctgtggatt atttttttcct caagtgcacc 300
tctctggtta acccaaactc tgcaagaaag cactgtgact aaaacataca taacgcctgc 360
ataaatattc catggtttca gttaaatttc agtttttagc ctttacacat gaggtcaaag 420
gagtgacgaa aatacaaagc aaggaaaaaa tgaaatatct ggtttttgct gaatgcttaa 480
tttatttttt actgtgccac tccaatattt atcaaatcca aatagcatga atgcttctct 540
gtagtaatac taattttgtg ccttttgtct gctttcttaa gaccagttgt tcacactttg 600
taggatatta gacaaatata tttcgattga attccacaac taaanaaaaa aaaaacttnn 660
agcctnttag aacttttagg gaggtcgnat tacggtagat ncanaccatg gataaggata 720
cattggatga attttggaca aaccccaacn ttggaatgcc ntggnaaaaa aatgcttttt 780
t 781

<210> 3084
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3084
gtntaanncc nangccttgc catcttgcag gatcccatcg attcgaattc ggcacgagag 60
aacgttctca ggttgaccag ctgctgtnta tttctttaag ggaggaagaa cttagtaagt 120
cattgcagtg catggataac aatcttctgc aagcccgtgc agcccttcag acagcttatg 180
tggaagttca gaggctactt atgctcaagc agcagataac tatggagatg agtgcactga 240
ggacccatag aatacagatt ctacagggat tacaagaaac atatgaacct tctgagcacc 300
caggtttggc atagaaatgg tacccccttgt tcaaaatgaa caagaagcct tagatttgga 360
tggggaacct gatctgtcca gtctanaagg attccantgg gaaggtgttt ccatttcctc 420
gtcccctggc ttggcaagaa agcgaagcct ttctgagagc agcgtgatca tggacagagc 480
tccttctgtg tatagcttct tcagtgagga aggtacaggc aaanaaaatg agccccagca 540
gatggttcac ctagtaactc attgagggct tggacagagc cagaaagcaa cccattgcac 600
ctttaaaaca agaagtgaca cctnggggct tgccctncct tcccgaacan gtggaaaagg 660
ggcttgaaaa tggtgcttcc ccaaanggcg acntagtnca ccaattatcc tctgancata 720
ttaatacctt tgatngcatt ttggccaaaa agacttgacc agncaaggaa nagggctatt 780
ccccccc 787

<210> 3085
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3085
ngttaantan atccttgcac tggcggatcc ctcgattcga attcggcacg agatttaaag 60
tattagccaa cctcttcagg tattagcctg aagataaatt ttaacaaaac atatacactt 120
gggtatccgt cattgctcaa actctatagt gtattgctgg agccaatagg cagggtatat 180
tttattagct aaatttgata tttgtcttct gccttctgta tcacctccaa gctataggaa 240
atcaggattt tgttggcttt aagaaaacac atggtatgtt cactgtatat taaatatacc 300
tgtatttaat gttttctctt aggacagaaa agtagacaca cacacacaca cacacacaca 360
tgttgtgttc agctttctgt tttatattat ttgccattga gattagaata gaacaggctc 420
tattcatgca aactatatga aatgaaaaac ttttaagact cttcattaat tggagcttct 480
gggcaacatc gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtatacag acatttttt 540
tttaacttgn tgattcanat gtcttggtcc ctgaatagtc ctagattact tattttgaga 600
attcattggt aaaattacag ggaattaaaa taattgcctt ttttttagan ggtaaganat 660
gggtagaaga ntatgcctnt gnaaatttat tagntattct tgtggagaat nccagaaaat 720
gggtatttgc ccatgctaaa tatganatan 750

<210> 3086
<211> 954
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(954)
<223> n = A,T,C or G

<400> 3086
tnnnnnnncc ggnttctnnc tcacgantnt ngcatgcatt tganagcatt natcgattcg 60
aattcggcac gagctgcgct atcagcgcaa agaacctccc gttagtgcca ctgaccccac 120
ctnccccag ccccacagct gggtctggct gggcactgac caggaggaac tgagccgcca 180
gctggaccgg cagtcccctg gcccgcccaa gggggagggg agctgcccct gtgagagtgg 240
gggangaggg gaggccccta ccctggcccc tggccctcct gggggcacca ccagctnctc 300
aagcacnctg gcccgaaagg aggctnntng ggcggctnaa gcgagtanag tttgtgacat 360
ttgcnccagc cccttcagcc cagnnacctg aggagcctgt aggggcccct tgctgtgcag 420
taccatnctt gtggcaggcg acgaggacat ccgntgngtg tgtnaaggac atggngcttg 480
aaggacccctg angaagcttc nnaaactaca tngagaggat cccngggcaa ctttcttgac 540
nctgcaanan acaaccttgg tcaagcccac ncaacttggn gcaaacgann nggtgngaag 600
ggtttcccaa cttggagccc ttttccgtc cttgcccctc ggnccanttt cgtttttngg 660
tagccttggt ttggaattcc caagntcccc cttggccttn gngtnncntc ncnnancaaa 720
nggggacntt taccnatttn cnaagggcnc ncccnntntt tgggcccntt ggccccccnnt 780
ttgggcccat tggggaaacc aaatggggtt cnnntnnaaa ngngnaaaag gggcctttca 840
attggccncc ccntttaaaa atttnaaatg gggggaaaac ncccttttta tcntatttnt 900
cttaaacccn gnaanattta aaaacccnnn atnnaaaggg gaaaaaaaac cccg 954

<210> 3087
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3087
tnncgnctaa nnttnatgcc ttngttnntn cntccntttt gcaggatccc atcgattcgt 60
tagtgtactg gatgtcaggt ccctcaaaga ttccttggac cattttcatg tgaatgaaga 120

agaaatcaat tgtctttcat tgaatcaaac ggaaaacctg ctggcttctg ctgacgactc 180
tggggcaatc aaaatcctag acttggaaaa caagaaagtt atcagatcct tgaagagaca 240
ttccaatatc tgctcctcag tggcttttcg gcctcagagg cctcagagcc tggtgtcatg 300
tggactggat atgcaggtga tgctgtggag tcttcaaaaa gcccgaccac tctggattac 360
aaatttacag gaggatgaaa canaagaaat ggaaggccca cagtcacctg gtcagctctt 420
aaaccctgcc ctagcccatt ctatctctgt ggcttcgtgt ggtaatattt ttagttgtgg 480
tgcagaagat ggtaaggttc gaatctttcg ggtgatggga gttaagtgtg aacaggaact 540
gggatttaag ggccacactt caagggtatc ccaggtctgc tttctcccag aatcctattt 600
gctgctttac tgganggaat gatggggaag atcaccgttt gtggggatgc caaacagtgg 660
aagtttgaag aaaaaaccag aagaagtccc cacaaaaccg tacccacagg gaagaaaccc 720
taaaggangg acnttgcacc aaagcagggt gggaaaatcc tnacgcctta agtnacccga 780
tggagggaa 789

<210> 3088
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3088
tgnttnnngt tnnntntnag ccttgctctt tgcttctgca ggatccctcg attcgaattc 60
ggcacgaggg ccaaagaggt gctacatgca ttgaaagaaa aggttacttc actacctgac 120
aaccataaaa atgcccttgc tgctaacata gatgaaattg tatttacatc aacaggagac 180
atctccattt actatgatga gaaaggaagg aagtttgtta acatcctgat gtgcttttgg 240
tatctaacca gtgccaacat ccccagtgaa actttaagag gagccagtgt attccaggtt 300
aagttgggga atcagaatgt ggaaactaaa caacttctta gtgcaagcta tgagtttcag 360
agggagttca cacaaggagt aaagcctgac tggaccattg cacggattga acactcaaaa 420
ttattagaat aattttcttg gaaaaatcag cttatggact ttagcagttg ctgtgaaaaa 480
ctaaggaaga aaaattttgg ggtcatttga tcttcactta atctaagtct gtgaattact 540
tttatattat tttgaaatac tccttgcagt atattggcat gatacagtaa aagcattttc 600
cacaganttg gtatcacctt cttaaaagaa gncaaaaatt taaaaaattc caatagcccc 660
gttggttggt gtcatattca ataacatttn caatgctaca tataatttta tagacttata 720
aagaaggtnt tgaaaaaaaa aaaannnnnn nnnnnnnnnn nngnnnn 767

<210> 3089
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3089
naatncttgg ctcttgttct ttntgcagga tcccatcgat tcgaattcgg cacgagaatg 60
caaagggctg cagttctcat tcaggctact ttcaggatgc acagaacata tattacattt 120
cagacttgga aacatgcttc aattctaatt cagcaacatt atcgaacata tagagctgca 180
aaattgcaaa gagaaaatta tatcagacaa tggcattctg ctgtggttat tcaggctgca 240
tataaaggaa tgaaagcaag acaactttta agggaaaaac acaaagcttc tattgtaata 300
caaggcacct acagaatgta taggcagtat tgtttctacc aaaagcttca gtgggctaca 360
aaaatcatac aagaaaaata tagagcaaat aaaaagaaac agaaagtatt tcaacacaat 420

gaacttaaga aagagacttg tgttcaggca ggttttcagg acatgaacat aaaaaaacag 480
attcaggaac agcaccaggc tgccattatt attcagaagc attgtaaagc ctttaaaata 540
aggaagcatt atctccacat tagagcacag tagtttctat tcaaagaaga tacagaaaac 600
taactgcagt gcgtcccaag cagttatttg tatcagtctt attacagagc tttaagtcca 660
aagatatcaa atatgcacgg gctgcacact aatcagtctt ctatca 706

<210> 3090
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3090
nctctactca gattgcttgg cgntctntnt gcaggatccc atcgattcga attcggcacg 60
agccccactc ggggtatgtg aatgcccagc tggagaagga agtgcccatc ttcacaaagc 120
agcgcattga cttcacccct tccgagcgca ttaccagtct tgtcgtctcc agcaatcagc 180
tgtgcatgag cctgggcaag gatacactgc tccgcattga cttgggcaag gcaaatgagc 240
ccaaccacgt ggagctggga cgtaaggatg acgcaaaagt tcacaagatg ttccttgacc 300
atactggctc tcacctgctg attgccctga gcagcacgga ggtcctctac gtgaacccac 360
ttgagaaggc tgcctcctag gctctgctca gtcatcttgc aattgccaca ctgtgaccac 420
gttgacggga gtagagtagc gctgttggcc aggaggtgtc aggtgtgagt gtattctgcc 480
agcttttcat gctgttcttc agagctgcag ttatgccaga ccatcagcct gcctcccagt 540
agaggccctt cacctggaga aagtcagaaa tctgacccaa ttcacccccc gcctctagca 600
cctcttctgt cctgtcattc ccacacacgt tcctgttcac ctcgagagag agagagagag 660
agcacctttc tttcgtctgn tcacttttgc gggctntgga atnccagctc ttctctntca 720
gaagaagcct tctcttcctc tgccttgtag gtgtnccaaa agt 763

<210> 3091
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3091
gnntttnntn ccttttnctt ttcaaatnct tggctacttn ctntttctgc agggatccca 60
tcgattcgaa ttcggcacga ggaggatctg ccttctgagg aagtggatca agagctgatt 120
gaagacagtc agtgggaaga aatactgaag caaccatgcc catcgcagta cagtgctatt 180
aaagaagaag atctcgtggt ctgggttgat cctctggatg gaaccaagga atataccgaa 240
ggtcttcttg acaatgtaac agttcttatt ggaattgctt atgaaggaaa agccatagca 300
ggagttatta accagccata ttacaactat gaggcaggac cagatgctgt gttggggagg 360
acaatctggg gagttttagg tttaggcgcc tttgggtttc agctgaaaga agtccctgct 420
gggaaacaca ttatcacaac tactcgatcc catagcaaca agttggttac tgactgtgtt 480
gctgctatga accccgatgc tgtgctgcga gtangaagaa caangaaata agattattca 540
gctgattgaa gcaaaagcct ctgcttattg tatttgccaa gtcctggttt gtagaantgg 600
ggatacttgg tgctccagaa gttantttta catgcttntg ggaaggcaag tttacccgat 660
ttncatgggg aatngttctt tcaantncca ccaaaggatt gttgaaagcc ttattgaact 720
tttgcaaggg anttccttgg cccacaattt ganggaatta ttgaccttcc tttg 774

<210> 3092
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3092
gnnnnnnntt nnntttcctt ttcnaatnct tggctacttg nnctttctgc agggatccca 60
tcgattcgaa ttcggcacga ggccatgtga ggacataggg agaaagcagc caccattggc 120
aagccaagag agagccctca ccaggaacga ttggaccagc accttgatct tggattttct 180
agcctccaga acttacagta cgggtggctg gcaagatggc cgaataggaa gagctccagt 240
ctacagctcc cgcagagatc aacgcagaag gaacagcagt ctcagcggtt agcagcacaa 300
gagatgattt acacaatgaa gaaagtacat gcactttggg cttctgtatg cctgctgctt 360
aatcttgccc ctgcccctct taatgctgat tctgaggaag atgaagaaca cacaattatc 420
acagatacgg agttgccacc actgaaactt atgcattcat tttgtgcatt caaggcggat 480
gatggcccat gtaaagcaat catgaaaaga tttttcttca atattttcac tcgacagtgc 540
gaagaattta tatatggggg gatgtgaaag gaaatcaaga atcgattttg aaagtcttgg 600
aagagtgcaa aaaaatgtgt acaagagata atgcaaacag gattattaaa gacaacattt 660
gcaaccaagg aaaagccnag atttctgctt tttgggaaga agantcctgg atatgtcnag 720
gntatattac caggtatttt tataaccatc agaccaaac 759

<210> 3093
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3093
tctaatgctt ggctcttgnt ctttctgcag gatcccatcg attcgaattc ggcacgaggg 60
agatccagat attcttagac ctgctgtttg aacctgtgag gcatttcaag aatggagagt 120
gccattctgc agtcattcaa gcagtagaag acttggattt gtctaaagtt cttcctttag 180
gtcgtcagca cggtatctta aacagccttg agatagtatt gaaaaacatt agtcatctga 240
tcagcgcata cctgccgaag attttgcaga tactgctctg tatgacagca accgtatcac 300
acatccttga ccaacgagaa aagatacagc tgagatttat taatccattg aaaaatttaa 360
gacgtcttgg aatcaaaatg gtaactgata tctttttgga ctgggaatca tatcagttta 420
gaacagaaga aattgatgct gtgtttcatg gtgcagtttg gccccagatc agcaggcttg 480
gatctgagag tcaatattct cctactcctc tgctgaaact gatcagtatc tggagcagaa 540
acgcaagata tttccctttg ctggctaaac agaacctggg cacccagaat gtgatatcct 600
gaccaatggt tttttgcaat tctctcagcc gaagaatctt tcttgatgcc cacagccagt 660
attgtaatgg gccataagtt ggatgacctt tnttaacctt tccagaattt cgagccctac 720
cggaaaccgg ttttggat 738

<210> 3094
<211> 738
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3094
tctaatgctt ggctcttgnt ctttctgcag gatcccatcg attcgaattc ggcacgaggg 60
agatccagat attcttagac ctgctgtttg aacctgtgag gcatttcaag aatggagagt 120
gccattctgc agtcattcaa gcagtagaag acttggattt gtctaaagtt cttcctttag 180
gtcgtcagca cggtatctta aacagccttg agatagtatt gaaaaacatt agtcatctga 240
tcagcgcata cctgccgaag attttgcaga tactgctctg tatgacagca accgtatcac 300
acatccttga ccaacgagaa aagatacagc tgagatttat taatccattg aaaaatttaa 360
gacgtcttgg aatcaaaatg gtaactgata tctttttgga ctgggaatca tatcagttta 420
gaacagaaga aattgatgct gtgtttcatg gtgcagtttg gccccagatc agcaggcttg 480
gatctgagag tcaatattct cctactcctc tgctgaaact gatcagtatc tggagcagaa 540
acgcaagata tttccctttg ctggctaaac agaacctggg cacccagaat gtgatatcct 600
gaccaatggt tttttgcaat tctctcagcc gaagaatctt tcttgatgcc cacagccagt 660
attgtaatgg gccataagtt ggatgacctt tnttaacctt tccagaattt cgagccctac 720
cggaaaccgg ttttggat 738

<210> 3095
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3095
ncttctaatn cttggctatt tctaatnctt ggctactttc aaatccttgg gnantcgctc 60
tctctncatg atcccatcgn ttcgaattcg gcacgaggat tgtgacatgg tgtaataaag 120
gtctacatgg ngtaataaag gtatacatgg tgtaataaag gatgtgggag cacanatcca 180
taggaatttg acagtntagg aattgcttta ttattcangc ccttcactct cagactaccc 240
tgctctattt gaataatgan gcttgtggtg gtctgtggaa aantngacan antagaattt 300
ggncagctgc tgaangncac ggnctctgga atgagtccac gtnccctan ggacagtant 360
nccaaattga nacnnaaact ttnagaaaac caatgtnatg gggccaagca attgggnagc 420
taggcccgac ctnatntttt agngattttg aactcaatct ttaanatcct gnaacagaan 480
gananaaagg gtgnatattc gngnaatgac atncaagatc tnactgcnct ctnggctnct 540
anngatggnc gaaaaantgt gcncccaagg tttnnccccc ntatttacca ccttgcatcc 600
atgccatngt ngaccttaca nntgnncaaa aggcccttgc ccnntgtgan ancattcccc 660
tggnancttt cccntaccng ntgccctctt taantccttn attnaaaccc tgggggtgaa 720
aatcctgana aatntaantt aanaatctng ntacctttc cntananaan aactaacctc 780
nagcccn 787

<210> 3096
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3096

gntnnnttcn nttcctttcn aatncttggc tactttcnnt ctctgnagga tcccatcgat 60
tcgaattcgg cacgagggag atccagatat tcttaggacc tgctgtttga acctgtgagg 120
catttcaaga atggagagtg ccattctgca gtcattcaag cagtagaaga cttggatttg 180
tctaaagttc ttcctttagg tcgtcagcac ggtatcttaa acagccttga gatagtattg 240
aaaaacatta gtcatctgat cagcgcatac ctgccgaaga ttttgcanat actgctctgt 300
atgacagcaa ccgtatcaca catccttgac caacgagaaa agatacagct gagatttatt 360
aatccattga aaaatttaag acgtcttgga atcaaaatgg taactgatat ctttttggac 420
tgggaatcat atcagtttag aacagaagaa attgatgctg tgtttcatgg tgcagtttgg 480
ccccagatca gcaggcttgg atctgagagt caatattctc ctactcctct gctgaaactg 540
atcagtatct ggagcanaaa cgcangatat ttccctttgc tggctaaaca gaagccctgg 600
gcacccagaa tgtgatatcc tgaccaatgt ttttgcaatt ctctcagccg aaagaatctt 660
tctgatgccn acagccagta tttgtaatgg gacatangtt ggatgacctt ctttaaccct 720
ttccagaatt ncgagcctac nngaaaccag gtttttc 757

<210> 3097
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 3097
gnttctaatg cttgggngnt ttcaaannct tggcnnnttt cnaatgcttg gctactngat 60
ctttntgcan gatcccatcg attcgaatcg gcacgaggag ttttttgtga tattgaggca 120
ttcatacaga gctgcagtta gacggggtta cgggggctaa aagcagaaaa aaaattccat 180
ttcatcggga tggaactgaa ggattttatt ctataaagcg gccctggttg aatctggcaa 240
ttctttttgc caagatccct agcagaagat ttagccatgt ccttcccctc acttgtgtga 300
gtggcccctt ctgaatctct ccagcagcca gaggcacgtg agaagcagaa agagctggta 360
aataaagcct tgggcaagcg acttcttaga tcagaactca ccaaatggaa gcctagcagc 420
tgctccataa acctagcccc attcttcata tcaattttgt ataaatatat agaaacacac 480
acacagcctc agacttacaa actgattata ctctaaaagt ttgtatgtca gttagctaaa 540
acttcagaat acattttctt cctataaaag agttttaaat gatggttaag ttcttcaagg 600
cagntncnca anggcctatt tntnccccaa agggcccccc gaacnnttng nccccccatan 660
aaactggaac ccnccntttt tgntantana nccccntggg ggaagtgncc natttnnggg 720
gggttaaaaa cccgggggggg tggccaanaa aaacnacacn ttnttttttcc nattcccann 780
cnataangag aagg 794

<210> 3098
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3098
atgcttggct cttgntcttt ctgcaggatc ccatcgattc gaattcggca cgagcttcag 60
gaactagatg tatatgcaca agggattgag tttacactaa aactaggaaa tggagttttc 120
aatctatgtt cttgcctctt catactttta tttatttttt gtcatcctgc cttatactgg 180
gctaacaatg agataaaata aaaatacctt tgaatactct tttccctttc atgcatttaa 240
agccatggag gaactagacc attagctgtt gccgtcacat gcttagacac cagtttactt 300

agcgtgttat gaccttcctc acccatacta ccaaatttaa atgggtcccg acttcaccct 360
ctggaaggaa gtaaactctt ctctccccat ggtttcagag cagtttttac ctgcaagcac 420
catctctgta tgtgctctta ctagattata cagttcttga gagggattgc atcttggtgt 480
ttttgtattt ccacctcacc cccagcacat agcccagtct cttgcacaaa ttaagtactt 540
aatgtgtgtt gagctaaatt gaataaagga ttattagcat tagcatattt tgtgccttgg 600
ttgtataagc tggttgtntg ttttggtacc tttgcaaata tttatgatta tcacccccc 660
acatactaaa ttgtttttaa aaggtttgnc tttncttcag aatactaccc cangc 715

<210> 3099
<211> 886
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(886)
<223> n = A,T,C or G

<400> 3099
tnancttcaa tgcttttcca aatncttggc tctngttctt tntgcaggat cccatcgatt 60
cgaattcggc acgagcagag ctgtgatctg cccccaggta ttctgacccc caaactggct 120
ctcaaccatg tttacatgat gaaaagaaga ggtgactgtt gtatcagctc taaaggcctc 180
acttttggtg aaatgggacc taaatttgat tgcatacttg attacttgct gtcaatactg 240
aaattggcac ttcataattt taatactatt gaactttcac cataaccctg tcctataaag 300
ttgacttgca aatgaagaaa ctctatctct tcaatattat aaaatatatc caagagtcac 360
aactagtgag aaaaggacag gatctaacta acaatgtgag gctgtgtctt cacaccaatt 420
caacagagta tcttgtaaat gttgagagga gangtcttta ggtcatgggg tgtctttcaa 480
taaagtgctt tagaaaacag gtgacaactg gaattgggcc cttggaggga ttgaatngga 540
tttaagccca gggcaantta aaattagggg aaaagcngaa ttccttcaag gaaccgggat 600
tttaaaaacc cagcnttgga gnaagaaaag ttggaaaaat ggagcccaag ttggntaaag 660
gaacnaattg gaatancctg ggncccattg gggatttttt taagaaaaaa gtggtttnaa 720
aaattgggaa anttgaaatt tggggnaatt naaaancctt tgggaaaaag aaattggncc 780
ctgggggggn ccccaaggcc tttnntttng aaaaagggcc nttnggggtt ttnggccttt 840
taanaaatta aaaggtccca aaaattggnc cncnntttng aaccna 886

<210> 3100
<211> 886
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(886)
<223> n = A,T,C or G

<400> 3100
tnancttcaa tgcttttcca aatncttggc tctngttctt tntgcaggat cccatcgatt 60
cgaattcggc acgagcagag ctgtgatctg cccccaggta ttctgacccc caaactggct 120
ctcaaccatg tttacatgat gaaaagaaga ggtgactgtt gtatcagctc taaaggcctc 180
acttttggtg aaatgggacc taaatttgat tgcatacttg attacttgct gtcaatactg 240
aaattggcac ttcataattt taatactatt gaactttcac cataaccctg tcctataaag 300
ttgacttgca aatgaagaaa ctctatctct tcaatattat aaaatatatc caagagtcac 360
aactagtgag aaaaggacag gatctaacta acaatgtgag gctgtgtctt cacaccaatt 420
caacagagta tcttgtaaat gttgagagga gangtcttta ggtcatgggg tgtctttcaa 480
taaagtgctt tagaaaacag gtgacaactg gaattgggcc cttggaggga ttgaatngga 540
tttaagccca gggcaantta aaattagggg aaaagcngaa ttccttcaag gaaccgggat 600

tttaaaaacc cagcnttgga gnaagaaaag ttggaaaaat ggagcccaag ttggntaaag 660
gaacnaattg gaatancctg ggncccattg gggatttttt taagaaaaaa gtggtttnaa 720
aaattgggaa anttgaaatt tggggnaatt naaaancctt tgggaaaaag aaattggncc 780
ctgggggggn ccccaaggcc tttnntttng aaaaagggcc nttnggggtt ttnggccttt 840
taanaaatta aaaggtccca aaaattggnc cncnntttng aaccna 886

<210> 3101
<211> 738
<212> DNA
<213> Homo sapiens.

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3101
tnancttnaa nccttttcaat tncttgctct gnnttnagcc gatccctcgt tcggagacat 60
catgtcaaca gaaatggaga tgtgcactgg ggaaactgcc ggccgggccg ctggcccgtg 120
gacgcctggg aggtggccaa ggccttcatg ccccgaggac tagcagacaa acaaggacct 180
gaggaatgtg atgcagttgc tcttttaagt ctcatcaact cctgcgatca cttcgtggtt 240
gatcgaaaga aagtcacaga ggtaattaaa tgtcgtaatg agatcatgca ctcttcagag 300
atgaaagtat cttctacgtg gcttcgagat tttcagatga agatccaaaa ttttctgaat 360
gaattcaaga acatcccaga gattgtggca gtatactcca gaatagaaca gctgttgacg 420
tctgactggg ctgttcacat ccccgaggaa gatcagcgag atgggtgtga atgtgaaatg 480
ggaacttacc tgagtgagag ccaagtcaat gaaatagaaa tgcagttact aaaggagaaa 540
cttcaagaga tatatcttca agcagaagaa caagaggtgt ttgcctgaag agctctcaaa 600
tcgactggga atggtgaang aatttctgag aaacatgaag gatcttagaa atgggcttta 660
cngaagatat gccagaaact ngacagcctt tgtcttcctt caaaaactgg attcacaagg 720
aacctgggag acaaacnt 738

<210> 3102
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3102
gnttctaatg cttttccaaa tacntgctct tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agattttgct ggacactcag acacaattta gagtatttat atataacttg 120
aaaacagtaa catttccaaa aaccgatgaa ccccaccctg tcccaaggaa tgattggtat 180
gtatgtgaag ttcatttttct gacaaaaata attacgttcc acttaggatg cacaaccatg 240
ctgtcctgta gagaagtcac aagttttgtg agaattttta aactgatgat gtttatttcc 300
atggtaacat gagtatacat tttaccttct attgtagtga tgaatcacaa ttagtctttt 360
tttataggtt ggtggaaaag taattgctgt tttgccattg cttttaatgg caaccacaac 420
tacttttgca ccaacctaat atttattaag actttacttt tttgagacca atttctgaaa 480
ttgggattca tgttgagagt ctctaaggtc cctgataatt tgtcgcattt gttgntgntt 540
tttggagaat atttcatcac tactcaaatg atggtcctct ggtctggtgg aagcttcgta 600
agctttgaaa gccagataac cagggtttca gacaagtcta gagccangtc aggatatcaa 660
taagacccac aggatgtagg gcttgcctgc tanggagaca tttagcttat cttcccggca 720
aaaaaggctt gtnccccc 738

<210> 3103
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 3103
gnttnaancc cttttgaaat ncntgctctt gntctttttg caggatccca tcgattcgaa 60
ttcggcacga gagaaaaaca acagagagaa aaagaatacc tgagatatgt agaagcttta 120
cgagcccaaa tccaggagaa aatgcagctg tataatatta ctttacctcc actatgctgt 180
tgtggtcctg atttttggga tgctcatcct gatacctgtg ccaacaactg tattttctat 240
aaaaaccaca gagcatatac tcgggcacta cattcattca tcaattcctg tgatgtccct 300
gggggtaatt caactcttcg agtcgcaatt cataattttg cttctgcaca caggcggact 360
ttgaaaaatc tataataaga atctgaaatt aactggtagt attttggctt ttacttaaaa 420
tcatccctga gagagtattt aagaaaagct gttcaagtta taaaatatat aatctggaaa 480
gaaatactgt ctcatataat aattagattg taatcattgn tttaatctct gtctgggaac 540
caagattgaa agctgactta cttctctctt ctgncttgtg aaccatacgg agcctattat 600
tttaaaatat gatcagacaa gtaaggcttc tcttactttg ctctgctctg atcagaagag 660
ctcatgtgaa gtctttgaga ttctcttaat tatcatcttc tnaaactggg ttttgagctt 720
gacagtnctg aaaaagt 737

<210> 3104
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3104
gntnnnttcn nttcctttcn aatncttggc tactttcnnt ctctgnagga tcccatcgat 60
tcgaattcgg cacgagggag atccagatat tcttaggacc tgctgtttga acctgtgagg 120
catttcaaga atggagagtg ccattctgca gtcattcaag cagtagaaga cttggatttg 180
tctaaagttc ttcctttagg tcgtcagcac ggtatcttaa acagccttga gatagtattg 240
aaaaacatta gtcatctgat cagcgcatac ctgccgaaga ttttgcanat actgctctgt 300
atgacagcaa ccgtatcaca catccttgac caacgagaaa agatacagct gagatttatt 360
aatccattga aaaatttaag acgtcttgga atcaaaatgg taactgatat ctttttggac 420
tgggaatcat atcagtttag aacagaagaa attgatgctg tgtttcatgg tgcagtttgg 480
ccccagatca gcaggcttgg atctgagagt caatattctc ctactcctct gctgaaactg 540
atcagtatct ggagcanaaa cgcangatat ttccctttgc tggctaaaca gaagccctgg 600
gcacccagaa tgtgatatcc tgaccaatgt ttttgcaatt ctctcagccg aaagaatctt 660
tctgatgccn acagccagta tttgtaatgg gacatangtt ggatgacctt ctttaaccct 720
ttccagaatt ncgagcctac nngaaaccag gtttttc 757

<210> 3105
<211> 749
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3105
ttcaaatcnc ttgctacttt cnaatcgctt ggctactcgn tctttctgca ggatcccatc 60
gatgtcggaa ttcggcacga gangtgtncc nactgtgccc tctgctngnc nctgctccna 120
actntaacnc anttgcnttt ggtgnacang tcacctgcgt gtttaaaatn tccttttgta 180
atgtatcgng aatgtgccga gaacatatga aantggntgn caatgganat ggaangggct 240
ttattctcac ttaanagagc cctgggagga ataaggtttt atctggatca ggtatccaat 300
tgcattggat aaacgtggcc tgaggcatga taaaatntna naacacaata ataagcctcc 360
tggngacatc tctgnncctt ttatagtccc tcanctggct tgtttgcang gtgcangatg 420
ggtgaccacc tgacgtgctt atgtggtcag taagttatct gaatanggtc tntctanacc 480
ccctagaatt tgtggagctn ggttgcatca taggaaatgc aagctgtgct ggngttcaca 540
agctaggaga ggagaatggg ttggatgtgc acctggctct gcaggaagcc catcttaggt 600
tannncctga aggataaaga anctggccac tggaatggtt gggaaaaggc tntnnganct 660
tcccatgccc aaccttggnc ctttttnggg tatnatngtg cccngncctt gaacngcttt 720
tttaantctg acaaanatac agggganttt 749

<210> 3106
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 3106
tgagttcaat gttggcnttg cnaatnctgn ctgtnccncn nttgcgggtt aaccagnctn 60
ncgattgagg antaaaggtc atngatggtc agaanctgan tgacgttngg aatccacccc 120
gttnattgta gaactggggg ttcagagggc aggtgcctca gagttgaggc cacacagtga 180
ggtctggtgg gtgaaaggac ccaggaacga ggcgttcang aaagcaggtt gtcagagcta 240
tgtggagtct gtgggtggca ngggcagccg ctccagcctt tgaagacttt gaaagccaca 300
gattcctggc gcaggcttgg acttnctggg agctcctcca agtacccann ggcatcanan 360
ctgcctgggt gttacatggc ccanngaacc catgttcang gtaggacatg catnaccaga 420
tacccaatgt gcanagtgaa nacactgggc tccctgttaa acgatgaaga attcangaca 480
gtgacagcat tacntnaccc ctggggacaa gaggtcagcc taaggtgaca cacggttgac 540
tactgtgctt cggaggctcc ctgtgtcctg gnngaagaaa agcattnnag ggggcagctg 600
gaccangctc ccaactgcag aagttccagc cctggcttgg gcaagggccc cggncttggn 660
actcacnatt nnctgatatg ccttaagnaa ttcattctgg tttgnacaat ttntttttt 720
aaaaan 726

<210> 3107
<211> 907
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(907)
<223> n = A,T,C or G

<400> 3107
gttnaatcnt tggcatttnn anatcgctng ncganccgat cgattngaan nnggcacgag 60

gcagctgaaa gangatctgt ccagcntcat cctcctatca gaggaggacc tccagatgct 120
tgttgacgct ccctgctcag acctggctca ggaactacgt canagttgtg ccaccgtcca 180
gcggctgcag nacacactnc aacaggtgct tgaccaaana naggaantgc gtcagtccaa 240
gcagctcctg cagctgtacc tccaggcttt gganaaagag ggcaatnctc tngtcaaagc 300
angaagagtc caaagctgcc tttggtgagg aggnggatgc antagacacn gggnatcagc 360
atgagagacc tgctaagacg ttgcgcttgg cngagccnca tccttactgc acttgnaggg 420
agaagcaggc tncanaagct gtngcttatc taatacaggn attncggagt tgggttaccc 480
aaaggnanna cccccaaaan cacttgnctt gtatggnctt ggaacctggg gacantnaaa 540
gaatnaccgg gacacctggt tcanagnaan gcccttgtna gtcagtttan ccttnggnan 600
cttgcnnact ntgccaatta aannaacnnc cnataancct ttggcaannt tcntcccttt 660
ccngntaagg ncaatatttn nanaccanag gcccaaaggg nnccccttca acccaaancc 720
tttggggttg gaaccncttg ggcnaanaaa aatnccccct taaagtcncg atntgncccc 780
aaggnaaccg ggggaattct ccccananta tttngtccnn tacnnannat ctnnggttaa 840
actntgnacg ccccanaagg ggaaaantct tctnttttgn gggctccnaa nttntatggg 900
ttaannn 907

<210> 3108
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3108
tcttnnntng gctattngat ctctntgcag gatccctcga ttcggaagac accagtggtg 60
gaatcgagtg tttggccaca gttcgggacc tatggtagaa aaatactcag tagctaccca 120
gattgtaatg ggtggcgtta ctggctggtg tgcaggattt ctgttccaga aagttggaaa 180
acttgcagca actgcagtag gtggtggctt tcttcttctt cagattgcta gtcatagtgg 240
ctatgtgcag attgactgga agagagttga aaaagatgta aataaagcaa aaagacagat 300
taagaaacga gcgaacaaag cagcacctga aatcaacaat ttaattgaag aagcaacaga 360
atttatcaag cagaacattg tgatatccag tggatttgtg ggaggctttt tgctcggact 420
tgcatcttaa ggacatgaat attctcccat aacggattca actatgagaa gagaagtggc 480
agcaataagg cagtctctca aaagtcatac tgccagagtc tctagggcaa ggagaaacaa 540
ctagctggac aatactcaat tcacaactta gcattttgcc atctgaagct tggcaaacta 600
gtatctgctg taaaacaacc tatatggtat gtgaaccgta gtattcctga gcaaaacgtg 660
gctttcatcg ctttgtaaaa atttggcatc tgtttagaaa ctagcctata aaata 715

<210> 3109
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3109
tcttnnntng gctattngat ctctntgcag gatccctcga ttcggaagac accagtggtg 60
gaatcgagtg tttggccaca gttcgggacc tatggtagaa aaatactcag tagctaccca 120
gattgtaatg ggtggcgtta ctggctggtg tgcaggattt ctgttccaga aagttggaaa 180
acttgcagca actgcagtag gtggtggctt tcttcttctt cagattgcta gtcatagtgg 240
ctatgtgcag attgactgga agagagttga aaaagatgta aataaagcaa aaagacagat 300

taagaaacga gcgaacaaag cagcacctga aatcaacaat ttaattgaag aagcaacaga 360
atttatcaag cagaacattg tgatatccag tggatttgtg ggaggctttt tgctcggact 420
tgcatcttaa ggacatgaat attctcccat aacggattca actatgagaa gagaagtggc 480
agcaataagg cagtctctca aaagtcatac tgccagagtc tctagggcaa ggagaaacaa 540
ctagctggac aatactcaat tcacaactta gcattttgcc atctgaagct tggcaaacta 600
gtatctgctg taaaacaacc tatatggtat gtgaaccgta gtattcctga gcaaaacgtg 660
gctttcatcg ctttgtaaaa atttggcatc tgtttagaaa ctagcctata aaata 715

<210> 3110
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 3110
tttnaatcnc ttggctactc gntctttctg caggatccct cgattcgaat tcggcacgag 60
gtttttcgaa gatcaactca agaagcaaga gttagcccga ggtcaaatgc gaagtcagca 120
aacctcaggg ctgtcagagc agattgatgg gagcgctttg tcctgctttt ccacacacca 180
gaacaattcc ttgctgaatg tatttgcaga tcaacctaat aaaagtgatg caaccaatta 240
tgctagccac tctcctcctg taaacagggc cttaacgcca gctgctactc taagtgctgt 300
tcagaattta gtggttgaag gactgcgatg tgtagttttg ccagaagatc tttgccacaa 360
attnctgcaa ctggcanaat ctaatacagt gagaggaata gaaacctgtg gaatactctg 420
tggaaaactg acacataatg aatttactat tacccatgta attgtgccaa agcagtctgc 480
gggaccagac tattgtgaca tgganaatgt tnaggaatta ttcaatgttc aggatcaaca 540
tgatctcctc acttctaggg atggatccat acacatccta ctcaaactgc atttttatcc 600
anccgttgat ctttacactc actgnncctt atcaacttat gttgccaaga agccnattgg 660
ccatttnttg gctcaccaaa agcntaaaga cactggcctt cttangctta ccaatgcttg 720
gnttgcttgn 730

<210> 3111
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3111
ncttctaatn cttggctatt tctaatnctt ggctactttc aaatccttgg gnantcgctc 60
tctctncatg atcccatcgn ttcgaattcg gcacgaggat tgtgacatgg tgtaataaag 120
gtctacatgg ngtaataaag gtatacatgg tgtaataaag gatgtgggag cacanatcca 180
taggaatttg acagtntagg aattgcttta ttattcangc ccttcactct cagactaccc 240
tgctctattt gaataatgan gcttgtggtg gtctgtggaa aantngacan antagaattt 300
ggncagctgc tgaangncac ggnctctgga atgagtccac gtnccctan ggacagtant 360
nccaaattga nacnnaaact ttnagaaaac caatgtnatg gggccaagca attgggnagc 420
taggcccgac ctnatntttt agngattttg aactcaatct ttaanatcct gnaacagaan 480
gananaaagg gtgnatattc gngnaatgac atncaagatc tnactgcnct ctnggctnct 540
anngatggnc gaaaaantgt gcncccaagg tttnnccccc ntatttacca ccttgcatcc 600
atgccatngt ngaccttaca nntgnncaaa aggcccttgc ccnntgtgan ancattcccc 660
tggnancttt cccntaccng ntgccctctt taantccttn attnaaaccc tgggggtgaa 720

aatcctgana aatntaantt aanaatctng ntacctttc cntananaan aactaacctc 780
nagcccn 787

<210> 3112
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3112
nttntnncct tnnnccanac tnaacncttt gcacttnctc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagatt tgtaccaact gtaccatctg cttgttnctg ctccaaactt 120
ttacccactt gcttttggta aagaggtcac ctgcgtattt aaaatatcct tttgtaatgn 180
atttgggaaa gtgccaagaa cntntnnaaa tgggtggnaa ttgaaattga aagggcnttt 240
aattttcntt aanaaanacc ctnggaggng anataagggt tttatctggn atcagggtnt 300
ccaatggcat tgntatanac gtggcnctgg ggcagggata aaatttaaaa aacncaatan 360
taagcctcct ggtgacatct ctgccctttt atagtccctn atctggcttg tttgcagggn 420
gcaagatggg tnaccacctg acgtncttat gtggtcanna tgttatcaaa aggggntttt 480
ctctangacc ccctanaatt tgtggagctg ggttgtatca taggaaaatg caagctgtgc 540
tggtgtacac agctagagag ganaatgggt tggatgnnca cctgctntgc angangccna 600
tctcagttat tgctgangat aaaaagctng ccttggaatg gaanggaaag gctnnangaa 660
cttcccatgc nacctggccc tttttgggta tggncggtgn ccaaaacctg ancttgttnt 720
taccccngac aaaggngggn ggtttt 746

<210> 3113
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3113
gnttnnncct tttcantnct tggctctcgn ctttntgcag gatccctcga ttcgaattcg 60
gcacgaggtc tagtataatc ttgatgctca aaccagataa ggacaataca agaaaggaag 120
agtataggct aattctaccc aataactaaa tgaagtatta gcaaaccaga ttcatcaata 180
atcttttaaa aatcaagaat taattggatt taggaatata acactgtgta taacaagttt 240
aagagaaata tatgagaatg ataagactgc aattgaaagt agaggctttc tctggaggga 300
aaggtgagga ggatgtgatt tggaagaaca gcatggggag gcatcagttg tattgtaatg 360
tttatttttt aagctgaatg ataggtacgt agatgttcat tgtgttcttt ttgccttttt 420
gtatatctta aatatatggt agtgccatga ttagcaggct taatagcctt gtgagtttaa 480
atgtcacttt caaatgctgt atttttggtg gagttgctta aacacattcc ccttggnatc 540
tatacaacca gttaaaaaaa atcatgtata naccacccat tgaaaatata atggaaatgt 600
actgnatatg ccatttttcat gaaatggttg tgtcaaaggg gcttnttagg aaaaaaaaag 660
atcgtttaac tctttttgca tttaagtgga aaataaggtg ggctttngga aatagtttca 720
acccttgctt aaccagtttt ttttttcatg cttnn 755

<210> 3114
<211> 749
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3114
ttcaaatcnc ttgctacttt cnaatcgctt ggctactcgn tctttctgca ggatcccatc 60
gatgtcggaa ttcggcacga gangtgtncc nactgtgccc tctgctngnc nctgctccna 120
actntaacnc anttgcnttt ggtgnacang tcacctgcgt gtttaaaatn tccttttgta 180
atgtatcgng aatgtgccga gaacatatga aantggntgn caatgganat ggaaggggct 240
ttattctcac ttaanagagc cctgggagga ataaggtttt atctggatca ggtatccaat 300
tgcattggat aaacgtggcc tgaggcatga taaaatntna naacacaata ataagcctcc 360
tggngacatc tctgnncctt ttatagtccc tcanctggct tgtttgcang gtgcangatg 420
ggtgaccacc tgacgtgctt atgtggtcag taagttatct gaatanggtc tntctanacc 480
ccctagaatt tgtggagctn ggttgcatca taggaaatgc aagctgtgct ggngttcaca 540
agctaggaga ggagaatggg ttggatgtgc acctggctct gcaggaagcc catcttaggt 600
tannncctga aggataaaga anctggccac tggaatggtt gggaaaaggc tntnnganct 660
tcccatgccc aaccttggnc ctttttnggg tatnatngtg cccngncctt gaacngcttt 720
tttaantctg acaaanatac aggganttt 749

<210> 3115
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3115
ttnaancctt tccccctttc aaatnncttg gctactngnt ctttctgcag gatcccatcg 60
attcgaattc ggcacgagaa gtctgttgcc attccatctc tgtgttaaca cttcatattt 120
ttatgaaatt cagataattt gtgagaggct ggcatggatc taaggattta ttatttttat 180
tctagtccat cagttcagtc gcagttttta tactaggact ttaggatgta cataaatgtg 240
tgactgtttg tcttgattaa aagtgcactt tggcctgggc atggtggctc atgcctataa 300
tcccagcact ttgggaggcc aaggcgggtg gctcacttga ggctaggagt tcaagactag 360
cgtggccaac atgaggaaac cctgtctcta ctaaaaatac aaaaattagc tgggtgtgtt 420
ggtgcatgct tataatccca gctacttggg aggctgaggc aggagaatcg cttgaaccca 480
ggaggtggag gtttgcagtg agcccgagat tatgccactg tactccancc gtgggtgaca 540
gaatgagact ctgtctcaaa ttaaaaaaaa taaaaaaata attttttttt tttaaaagta 600
ccccttttgnt ggctggggca cggcgactna cgcctgtaat nccagcacat tggggaggcc 660
aaggcagggc agatcaccaa ggttagggag ttccanacca gccttggcca acatgggnga 720
aacccctgcn tttactggaa aann 744

<210> 3116
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3116
caatgcttgt nntttnaanc cttgnccctt tcaaatcctt ggctacttgt tctttttgca 60
gggatcccat cgattcgaat tcggcacgag acaaggtgct ggcagtgaag tgggggcaga 120
ctgagcctgt gtagtgaagt gtcttgagga acgtcagctg tatcttttag gaaaccaaaa 180
ctgcatagac attgaaccca ggcagaaggt catgaagtca gagctaagaa atgctagtgg 240
ggataggggg tgagatagag ttgggaaatg tttcagagct acaggtgaca gttgttggtg 300
tccagttgga tatgtaccat gaagggaaga agcagtcaga gtgggcacca agctttctag 360
cctggaggac tgaatggttc tgtgcacatt tcagatggaa agaatagagg cccacagaaa 420
gttaatgaga tgcattttat acataccagt tttgaatttt aaggacctgt ggggtagata 480
tccaagatgg ctattcccag taatttgtat ttatatcttg ctacatcgca gaaaggattt 540
gaagcttgct aacacacata agatataaga attaaaatag gctggaccnt gggaacctca 600
cacctgtaat nccagcattt ttggggaagg ccnaagccgg gttggatcac tttgaaggtc 660
aagaantttc cagaccaccc tggccaacat tggtnaaaac ccccattcct tattaaaaac 720
ttccaaaaat tancaaaggt gtggtggtnc cttncctnta atcca 765

<210> 3117
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 3117
gcttcaatgc ttttcatttc aaatncttgg ctctttcaaa tccttggnac ncgatcnctt 60
tgcaggancc cancagcnnn nntgcggaac nggcttaacc agttcgggac ttacagnang 120
ctaccaatgg nnnntggccc nncgangata nggatctgcg ccacatggag gttttgggnc 180
gggancttna acgctacctg cnacnnatnt tggntggnnt ccntgtnnac nannttgtnc 240
ttntgccaan gggcactcan tnatgcctat actatnnngc nnacancata acgnnnnnct 300
cncnnnatgn cttncacatt ncncaatcat tntgcntaca gtatnatgca tgatangcaa 360
gtagtcactg cntagtgaga tanggacngg atctnccnta caatgtnang ctgaanntnn 420
acacnnatgc nacanactan cntggnaatg ggtataggac angtnnntta gntcatgnnt 480
gactatgnan nagtgcnntn gngannatgn gatanntgan cnnnncttga agnttnaatg 540
gatgnatcca gcnnatngna atnngnnaan cctcntacta caagactgan ataaatgnan 600
ttttgacgat aatgctnaat aatgnatcta anatgnaant taccatgttg gnaaacttgg 660
gcccatgngc anaatttnan aaaaggtttt ggaaaattgg aaatggattg ngtagcaatt 720
aaagcttttn tacccctang ngcccnntga cctcncnngg gnattganat naantgnntt 780
ccggaatttg gcctctgant attttngctt ataaatccnn nttgncgacn 830

<210> 3118
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3118
tttcaaatng cttggctact ngttcttttt gcaggatccc atcgattcga attcggcacg 60
aggcctggac cgctcattcg gactcgtcgg gcagagcttt tgtgctgnct tgcaccagga 120
actcagagaa tactatcgat tgctctctgt tttacattct cagctacaac tagaggatga 180
ccagggtgtg aatttgggac ttgagagtag tttaacactt cggcgcctcc tggtttggac 240

ctatgatccc aaaatacgac tgaagaccct tgcggcccta gtggaccact gccaaggaag 300
gaaaggaggt gagctggcct cagctgtcca cgcctacaca aaaacaggag acccgtacat 360
gcggtctctg gtgcagcaca tcctcagcct cgtgtctcat cctgttttga gcttcctgta 420
ccgctggata tatgatgggg agcttgagga cacttaccac gaatttttg tagcattcag 480
atccaacagt taaaacagat cgactgtggc accgacaagt atactttgag gaaaatcgat 540
gattncttcg tttatgaacg atggatcaag tctangaaag gtccttttga taggaaaatc 600
aattaaattt cttgcccaag gtttggccat gatcagactt cccacnttca aaaganggat 660
nagcttggtg aaccaanttc ttgcagangt caccccaagg aatgcttgna anacctnttt 720
cccananctt tggnaaat 738

<210> 3119
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 3119
gnttctaatg cttgggngnt ttcaaannct tggcnnnttt cnaatgcttg gctactngat 60
ctttntgcan gatcccatcg attcgaatcg gcacgaggag ttttttgtga tattgaggca 120
ttcatacaga gctgcagtta gacggggtta cgggggctaa aagcagaaaa aaaattccat 180
ttcatcggga tggaactgaa ggattttatt ctataaagcg gccctggttg aatctggcaa 240
ttctttttgc caagatccct agcagaagat ttagccatgt ccttcccctc acttgtgtga 300
gtggcccctt ctgaatctct ccagcagcca gaggcacgtg agaagcagaa agagctggta 360
aataaagcct tgggcaagcg acttcttaga tcagaactca ccaaatggaa gcctagcagc 420
tgctccataa acctagcccc attcttcata tcaattttgt ataaatatat agaaacacac 480
acacagcctc agacttacaa actgattata ctctaaaagt ttgtatgtca gttagctaaa 540
acttcagaat acattttctt cctataaaag agttttaaat gatggttaag ttcttcaagg 600
cagntncnca anggcctatt tntnccccaa agggcccccc gaacnnttng nccccccatan 660
aaactggaac ccnccntttt tgntantana nccccntggg ggaagtgncc natttnnggg 720
gggttaaaaa cccgggggggg tggccaanaa aaacnacacn ttnttttttcc nattcccann 780
cnataangag aagg 794

<210> 3120
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3120
nttntnncct tnnnccanac tnaacncttt gcacttnctc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagatt tgtaccaact gtaccatctg cttgttnctg ctccaaactt 120
ttacccactt gcttttggta aagaggtcac ctgcgtattt aaaatatcct tttgtaatgn 180
atttgggaaa gtgccaagaa cntntnnaaa tgggtggnaa ttgaaattga aagggcnttt 240
aattttcntt aanaaanacc ctnggaggng anataagggt tttatctggn atcagggtnt 300
ccaatggcat tgntatanac gtggcnctgg ggcagggata aaatttaaaa aacncaatan 360
taagcctcct ggtgacatct ctgccctttt atagtccctn atctggcttg tttgcagggn 420
gcaagatggg tnaccacctg acgtncttat gtggtcanna tgttatcaaa aggggntttt 480
ctctangacc ccctanaatt tgtggagctg ggttgtatca taggaaaatg caagctgtgc 540

tggtgtacac agctagagag ganaatgggt tggatgnnca cctgctntgc angangccna 600
tctcagttat tgctgangat aaaaagctng ccttggaatg gaanggaaag gctnnangaa 660
cttcccatgc nacctggccc tttttgggta tggncggtgn ccaaaacctg ancttgttnt 720
taccccngac aaaggngggn ggtttt 746

<210> 3121
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3121
gccccttca ttcaaatcct tggctactcg ttctttntgc aggatcccat cgattcgaat 60
tgatgagcct tattaactat cttttcatta tgagacaaag gttctgatta tgcctactgg 120
ttgaaatttt ttaatctagt caagaaggaa aatttgatga ggaaggaagg aatggatatc 180
ttcagaaggg cttcgcctaa gctggaacat ggatagattc cattctaaca taaagatctt 240
taagttcaaa tatagatgag ttgactggta gatttggtgg tagttgcttt ctcgggatat 300
aagaagcaaa atcaactgct acaagtaaag aggggatggg gaaggtgttg cacatttaaa 360
gagagaaagt gtgaaaaagc ctaattgtgg gaatgcacag gtttcaccag atcagatgat 420
gtctggttat tctgtaaatt atagttctta tcccagaaat tactgccttc accatcccta 480
atatcttcta atnggtatca tataatgacc cactcttctt atgntatccc aaacagttat 540
tgtggcattt aataatggaa tgtncatggg aattttccca ctggccttac ctttctgncc 600
ttggggaagc ttaaactctg gaatcttctc aatctgtaaa atggggaatt aaaagtatct 660
acctaactga gttgggaatg nanntgaaaa gaaaggccat tttttntaaa tcttggaatt 720
tagccaagcc cacntccgat tttatggccc tttcccatng ccctggantg nnn 773

<210> 3122
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3122
nctctttgac ctcnnttggc tactngttct ttntgcagga tcccatcgat tcggtcagat 60
ggtagaaaat gaaataatta aatagatacc atttgagttc tgggagccag gtgaagaagt 120
gtttgtttgt ttttgagacg gagtctcact ctgttaccca ggttggagtg cagtggcctg 180
atcttggcgc actgcaacct ccgccttctg ggctcaagtg attctcctgc tccagcctcc 240
tgagtagctg gggctacaga cgtgtaccac cacacctggc tacttttttgt atttttagca 300
gagaggggat ttcgccatgt tggtcaggct ggttttgaac tcctgacctc aggtgatctg 360
cccaccttgg cctctcaaag tgctgggatt acaagcgtga gccactgtgc ccggccagaa 420
ggagtgtttt gagaatggct aagagaagat aggttgaata gctatgccta catgtcacta 480
attaacatct cagagatctc tgctacaggt tgtccgtcct cattttgtct aatatttttc 540
caatggcatg agtataggaa gataaacggg gaatgttttg aagtaataaa aaaattccat 600
tcataaagaa gaacaacatg tattaagctt tgtgcaccaa acaacacaaa cagggaagac 660
acataaggca anaagctttt agnaaaaaaa nnntncntnn nnannntaat aaaaaactnn 720
ggnccttttng aactntaggn gagnccgnnt ttaccgtana atccaganct gaata 775

<210> 3123

<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3123
nctctttgac ctcnnttggc tactngttct ttntgcagga tcccatcgat tcggtcagat 60
ggtagaaaat gaaataatta aatagatacc atttgagttc tgggagccag gtgaagaagt 120
gtttgtttgt ttttgagacg gagtctcact ctgttaccca ggttggagtg cagtggcctg 180
atcttggcgc actgcaacct ccgccttctg ggctcaagtg attctcctgc tccagcctcc 240
tgagtagctg gggctacaga cgtgtaccac cacacctggc tacttttttgt atttttagca 300
gagaggggat ttcgccatgt tggtcaggct ggttttgaac tcctgacctc aggtgatctg 360
cccaccttgg cctctcaaag tgctgggatt acaagcgtga gccactgtgc ccggccagaa 420
ggagtgtttt gagaatggct aagagaagat aggttgaata gctatgccta catgtcacta 480
attaacatct cagagatctc tgctacaggt tgtccgtcct cattttgtct aatatttttc 540
caatggcatg agtataggaa gataaacggg gaatgttttg aagtaataaa aaaattccat 600
tcataaagaa gaacaacatg tattaagctt tgtgcaccaa acaacacaaa cagggaagac 660
acataaggca anaagctttt agnaaaaaaa nnntncntnn nnannntaat aaaaaactnn 720
ggnccttttng aactntaggn gagnccgnnt ttaccgtana atccaganct gaata 775

<210> 3124
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3124
tcccnagant ccatncgttt ggcnactcgt tctttntgca ggatcccatc gattcgaatt 60
cggcacgagt gttcttgtag tgtttgttgc tattgttaga aagattatta gtgatatgtg 120
gggtgtctta gctaaacaac agacacatgt aagaaaacac cagtttgatc atggagagct 180
ggtttaccat gcattgcaat tgttagcata tacagccctt ggtattttaa ttatgagact 240
aaaactcttc ttgacaccac acatgtgtgt tatggcatca ctgatctgct caagacagct 300
atttggatgg ctcttttgca aagtncatcc tggtgctatt gtgtttgcta tattancagc 360
aatgtcaata caaggttcag caaatctgca aacccagtgg aatattgtag gggaagttca 420
gcaatttgcc ccaagaagaa cttatagaat ggatcaaata tagtactaaa ccagatgcag 480
tgtttgcngg tgccatgccc acgatggcaa gtgttaagct ctctgcactt cggcccattg 540
tgaatcatcc acattatgaa gacgcatgct tganagcccn aacaaaaaat angttttact 600
naaatgtata ngtacgggaa aggcacnccg anggaaagtg aaaacgagga actngattaa 660
agttnaaaag gtggaactta ttancattnc ctatanaant agttcatggg tgtgntaaan 720
aaaggatccn aagcccctgg tttgcangtt tgccctggaa antttggggg atgttnggaa 780
gaanacctng cccaaatggc ttggggcaaa aacnttccct 820

<210> 3125
<211> 776
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3125
ntcctctntt gccttcgntt ggcnacttgn tctttttgca ggatcccatc gattcggttg 60
agcaatatga atataatgcc aagtactgat aaaatacgga attcatttag aatcaacata 120
ggtagacaga ctgtttttag taaggttttg ttttttggtg aataccatgt ttgggctgtc 180
agacttactt ttcccctgag atccatattt tgtacatgac ataccagata tatgcaatat 240
gaaacggaaa cagtttttca atctaatatc caggagtttg tgttaatatc ttgtgaactt 300
gtggctcttg gtatctggca ttgataaggc tgtctactaa tcctagagaa agggaagtag 360
actccgtttt aaagtctagt ccagtcttat tctttagttc atagaaatgg tctaagttaa 420
tgatagactc cgcacttatg ttcagaaagc atcatcatta cagctttgtt gaagggactt 480
ctgagtaang attatgtttg cgtctcctgt tggtggaagg cccatgaagc gtaatttcct 540
nctcaccatg ggcttcttta ttattgntga gtttttcata ctcanggatg tgaattcaac 600
cttgggtgtt ccagttcaga gaaaatattt catgaaagga tgaagtgttg gttcaattct 660
aggaccagna ttgagtggca ttatattcca gangtcctta tgggaaatgc tgggatttat 720
tgagtnggtt tnncaggnca ttttcgnccc ntttgccctg ggactaacta anacan 776

<210> 3126
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 3126
gcctcctttct ttcaaaacnc ttggctactn gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggccacacgg gccgcatcat ncctgcaatc tggttccgct acgacctcag 120
ccccatcacg gtcaagtaca cagagagacg gnagcccgnt gtacagattc atcaccacga 180
tctgtgccat cattggcggg accttnaccg ncgccggcat nctggactca tgcatcttca 240
cagcctntga ggcctggaag aagatccagc tgggcaagat gcattgacgc cacacccagc 300
ctaatggccg angaccctgg gcatcgccag ccttgcctcc agtgccctgt ntnctttggc 360
cctcaatctg gncccaaatc tggctgtgtc ccaaagggtg tgtgggaagt gggggggaaag 420
tanaggatgg ctcgatgttt tgcagctacc tctttttnccc gtgttnctttt ttagacaaat 480
tacactgcct gaagttgcan ttccccctttn cctggggagc ccnaagaaca gagtcnnggc 540
angggtggg gagtccaggg atcttgggggg acccctcctа aggagaagct tgcagtctct 600
tccntaaggg gaacatccca gaatgcatta tcgantcagc ttnttaagcc caggctttan 660
acaaattctt nnnagnnccc caattagggt nggacaccat ttaaatgaat ttgggtttac 720
ttccccctgg ggcaagncca ancctgccc ccanaaggct acncanaaac cttgggggct 780
tttaagcctt ttggggaccc aggnttggcn nnt 813

<210> 3127
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 3127

gnnttnnnnn nttttcaant nnnggctctg ntcttttgca ggatccctcg attcgaattc 60
ggcacgagcc tagtcccaga gtcctggagc ggcatactgg gggtggctgt gcagtcccag 120
catccccaac ccagcatgta tagagagcat ccatccttac atccagctga cccatgccca 180
tgctcctccc tgtggctgga ggttcaacaa taacataagt ctcttctttg ccctccagat 240
atttctccct cgagtggctg ggaaacttgg caagagacca gaggacccaa atgcagaccc 300
ttcaagtgag gccaaggcaa tggctgtgcc ctatcttctg agaagaaagt tcagtaattc 360
cctgaaaagt caaggtaaag atgatgattc ttttgatcgg aaatcagtgt acccgaggct 420
cgctgacaca gagaaacccc aacgcgagga aaggaatggc cagccacacc ttcgcgaaac 480
ctgtggtggc ccaccagtcc taacgggaca ggacagagag acagagcagc cctgcactgg 540
tttcccttca ccacagccat cctgtccctt cattggctct gggctttcca ctatacacag 600
tcaccgtcca atgagaaaca agaaggagca cccttcacat ngactccaac tgcaagttgg 660
acagcgacat tcaatcctgn actggttaac tggggttact ggatgactcc tggttgccca 720
ccatnctttt tgactggga 739

<210> 3128
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 3128
ntgcttcctc tncnnaaccc tttggnaact ncctctttnt gcaggatccc atcgattcga 60
aaatatttta gtataagcaa ttggctgtga tgctcaaatt tattgcatcc tcttattgaa 120
tttgccaatt tgtaattttt gcataataaa gaaccaaagg tgtaatgttt tgttgagagg 180
tggtttaggg attttggccc taaccaatac attgaatgta tgatgactat ttgggaggac 240
acatttatgt acccagaggc ccccactaat aagtggtact atggttactt ccttgtgtac 300
atttctctta aaagtgatat tatatctgtt tgtatgagaa acccagtaac caataaaatg 360
accgcatatt cctgactaaa cgtagtaagg aaaatgcaca ctttgttttt acttttccgt 420
ttcattctaa aggtagttaa gatgaaattt atatgaaagc atttttatca caaaataaaa 480
aaggtttgcc aagctcagtg gtgttgnatt ttttattttc caatactgca tccatggcct 540
ggcagtgtta cctcatgatg tcataatntg ctgagagaag caaatttttct ttcttttctg 600
aatcccacaa agcctagcac caaacttcct tttttcttcc tttaattaag atcataaata 660
aaatgatcct gggggaaaaa ngcatctgtc aaaataggga aaacattccc aaaactggag 720
ccactcttct tgtgcaccta anccatagct tggtgaccaa acaagatngg ttgcttcaag 780
gn 782

<210> 3129
<211> 1407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1407)
<223> n = A,T,C or G

<400> 3129
acnnnacnnn gnaagnnacn ngaanannng naanngacna anngnanagn gnaananaag 60
gngggggnga gaccnccagn nggngnccan naacccentg ggnaaanngc cnananngca 120
ggaacccanc gnangnaaan nnggnannga ggcagagnac ccgcaggaan cnnnaacann 180
gannacaggc aggaaacnna caaaaaggag ganngngaaa acaaanacan acagngaggc 240
caaagnaaaa aacatcagna nncgcnnana cagnncangn annccaagga anaanaaggg 300

aagganaaac aagnngnnna aaagaacaaa ggagngaang ccananangc nnagcnaann 360
naaacaaana cgggggganaa ggcganaanc nacngnanna nngcaannag aangaannan 420
acgnnngacg gcgannagna nggacagcgn agannnnann nnnnnaggan nnnagnacan 480
agnnnacgan cggcacanan ggcgganana gnnngancac angacacaan acanacacga 540
ncaggcnnng annanacacg gaagcaaagn agaagngcag aaagananna gaancancnc 600
cgagaggcan agncacagna gnnanngcan agnncnanna gnanagnaan agcgacagag 660
nnncgaagcn gagnaacaca caangaaanc agannacgag nagacggang aaagggaaga 720
caaagagaga ggnangaaan gaaagaaaca gagagngcag aagacncnng agagaagaga 780
gacagnagna ngagancncg cnnacngana nganaagaca nagaaanaga gngcgnagag 840
acnanaggga gcgaacgcag anangagaan agacngaana aagaggagca aannnnagnn 900
ngaannncac gaggacagan cncaacaagn ncnnaggcan acgaaaanan acaggacgag 960
gangnnacan agcgcganna gncncanngn agcgcgaacg aggannanag agaacagcga 1020
nagaganngg aagggcagac anaggnaaaa gggggganaca cacgagangc gacacaggan 1080
aanngcgagg acggacnggg nggggagaga aaacgngcga ncnggnaagg agaagnanna 1140
aggagaggan nagacgacgc naganananang nagnanngaa agcacannga cggaacangn 1200
ngcacgagca ggcanacnaa anaaganggn angaaggaan agannncaag ngangaaacn 1260
gaaagaggna aagncncgan gagngnacca gacgcagaan nngnagcaca agagaacnga 1320
gagagancga naggagaagg gagnganaga naagaagaaa agcgggnaac aaaaaacang 1380
ncncccnnag acaaagnggg nggcgng 1407

<210> 3130
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(876)
<223> n = A,T,C or G

<400> 3130
gtcccctttc nntnaatccc tttgggtctt tctgcaggat ccctcgattc gaattcggca 60
cgagatacaa atactacgtt ggacgcaagg ctatgtttga cagcgatttt aagcaagatg 120
ctggttatgt tgacatagga aatggagatt aggacaacat ttagttcagc gactgacttc 180
atgacctaca catnccgcat ggagatgact tagaagcagg ggatatgccc ttggacctgg 240
tgtcaaagct ctcgtttaaa cagcctcgtg cagtgtgtcg ctaccacaag agctcctgtt 300
taaacagcct cgcacggcgt gtcgcttgcc acacctgaca ctattggatt agtttacgtt 360
gctgangagt acctgtcatt tgcctttgag cattgtcacc cgtnntaggt ccgaannaac 420
caaaatgggt tggatnctng gacccttntt tggctttccn gtnaaaaaat ggctttttgg 480
ggntcanaat tgcccnnctt gggggggang ctttncntga aaaaaaggtt tntnccctnn 540
gntgccnaan tttttggccg gaaantttac cccnannccc ttttaaaccc aangggcnaa 600
acctnnnttg nttgntttca aacaaaggcc cctttggnaa aaaccccggn nggncntttt 660
tttaaattnc cttgggngga nnttttcctc antccnngga aaaaccttta aaantnnttc 720
cccttanang gaaccctttt nnaaaaaaaa gnggttttcc tttaccngaa ancccccnccg 780
attttttttg gnatnnttna tagggttccc tnnaaattcn ancccgntnn nntgcccntt 840
naantnnaat cannttaac nttnncnnnn naatcc 876

<210> 3131
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1195)
<223> n = A,T,C or G

<400> 3131

nnnnggggnnn nnnnnnnnnn nnnggggggg gggggnngga nngnggnngn ngnnnngnng 60
nnngnnannn nnnngnngng gcgtttccnc tttnctangn tgnaaaaaaa acccggtttt 120
tggggngaaa aanngccccn aggccnaggg gaatncccnc aanncgggna annngcgggn 180
aaaannncgg ggcnnacgga gggggngana gaagnnngnn aaggggagnn gggnggcngc 240
gggnnnaggc gatagggaaa aggngaanga ggngcnnggg ggggannngag ggnnnggang 300
accggangng anggaggcng ngcagnggga nnnacggagn ggggcangnn gancgangaa 360
ggcgnagnga ggaaanaaaa ccngggagan ggnngctgna gnaannnggn nnaggatggg 420
aggaaaaanc atanaaaana ggngccngna ggagagaatn gnccccngng gangggnngg 480
gnacggggna angnnnangn nagngngggg nngaagcggn ggaannnagn gggnaagngn 540
gnnngngagg gggngcgnag gagagnggng gngnggnggg agganaangn ncngganccn 600
gagnnggggа ggaagagngg ngggganngn nnggangang nggnngnngg gannggggng 660
anaggngnnn nngggngnna tcaggcnggg gagaggangg aagcnggcgg nncgnggnga 720
ngagcaggcn gngaggnnnc nngnagagcg agngnnnngc nancggnnna gagnggagtc 780
nnagngngga nggngcgagn nnagngcnnn gaggngnang ngnagagngg ngnnnnnnag 840
ngngcnangn ncnnnggngg nagcntgngc nngngggaag gangnngngn ngaggnnaag 900
nnaggnngng gngagngcgg nagngggcgg acagncgggg nggnnngagn nganangnag 960
ngnggggnng angaggngcg ngantgnncg anggcgcngn cgggggagag naganngnng 1020
gggngaggng ngcngnnnan ggnnggacgg aggagnnggn nnaggngggg aggnngancg 1080
angnggnnan acggcgnggn gnggganggnn gacnngagng gagggnngag gagagnggan 1140
ggggggggngn gcnnggnagg ggnaggngcg agnagncnac anganggggа gngcg 1195

<210> 3132
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1195)
<223> n = A,T,C or G

<400> 3132

nnnnggggnnn nnnnnnnnnn nnnggggggg gggggnngga nngnggnngn ngnnnngnng 60
nnngnnannn nnnngnngng gcgtttccnc tttnctangn tgnaaaaaaa acccggtttt 120
tggggngaaa aanngccccn aggccnaggg gaatncccnc aanncgggna annngcgggn 180
aaaannncgg ggcnnacgga gggggngana gaagnnngnn aaggggagnn gggnggcngc 240
gggnnnaggc gatagggaaa aggngaanga ggngcnnggg ggggannngag ggnnnggang 300
accggangng anggaggcng ngcagnggga nnnacggagn ggggcangnn gancgangaa 360
ggcgnagnga ggaaanaaaa ccngggagan ggnngctgna gnaannnggn nnaggatggg 420
aggaaaaanc atanaaaana ggngccngna ggagagaatn gnccccngng gangggnngg 480
gnacggggna angnnnangn nagngngggg nngaagcggn ggaannnagn gggnaagngn 540
gnnngngagg gggngcgnag gagagnggng gngnggnggg agganaangn ncngganccn 600
gagnnggggа ggaagagngg ngggganngn nnggangang nggnngnngg gannggggng 660
anaggngnnn nngggngnna tcaggcnggg gagaggangg aagcnggcgg nncgnggnga 720
ngagcaggcn gngaggnnnc nngnagagcg agngnnnngc nancggnnna gagnggagtc 780
nnagngngga nggngcgagn nnagngcnnn gaggngnang ngnagagngg ngnnnnnnag 840
ngngcnangn ncnnnggngg nagcntgngc nngngggaag gangnngngn ngaggnnaag 900
nnaggnngng gngagngcgg nagngggcgg acagncgggg nggnnngagn nganangnag 960
ngnggggnng angaggngcg ngantgnncg anggcgcngn cgggggagag naganngnng 1020
gggngaggng ngcngnnnan ggnnggacgg aggagnnggn nnaggngggg aggnngancg 1080
angnggnnan acggcgnggn gnggganggnn gacnngagng gagggnngag gagagnggan 1140
ggggggggngn gcnnggnagg ggnaggngcg agnagncnac anganggggа gngcg 1195

<210> 3133
<211> 791

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 3133
tgcctctttn tgccttttgt aannnccnct ttttgcagga tcccatcgat tcggattagt 60
angatttnca ngaaaaataa ccaccgggtg gggantaang ngcccaaant cnngtcctaa 120
atgcncagct ttatgtnccc tgtccaccat ctngngcctc ttctccattn gcctcttcct 180
tcctatttcc cttccgctaa ggaaaaaaat nggggtcnca ttngtaaaag taattttaat 240
agttaatcat ctctgagagt aacctgtatt ttaatngttg aanctaacc aaantaagat 300
nctgtctnag ctagggcttg tcatttgtgt atttagtgtt aagataggaa tgctagtgtc 360
tctttaatta attggaaata gatggaggct aaaaatgaag gtttttcttt gaaactgaat 420
taacttggga atatttgttg ttaaaacttc tttttgccca aaataactca ttttgnatta 480
tctgaaaata tataatttct ggcatgtgta tgttaaaata gaaaattttg aggaaaaatg 540
gaaatagggt ggaaaagtac tcggtaaaca gtagtaacca aatattttca ctccagattt 600
gngttttctc ttggcaccag agtagatctt ttgggaaaat atattatgaa aagtnggatt 660
aaagtttgga ctacccttat ggttagcccc catctgggat gagaacnggt taccaaagga 720
gtttngggcc tcttaaggtg gatttggtnc cccagtgggg tcaacttttt gcnaaaattn 780
ccgnaatggg g 791

<210> 3134
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3134
nccttttcaaa cgcttgctct tgttctttnt gcaggatccc tcgattcgaa ttcggcacga 60
ggtgaacacc cgctgatcct ttaacaagga tttctggcag gaaactcaca aaanggagaa 120
ctgaaaattt agacatacag ttggccattg taaaaaacat cagtttcctc tcatacattc 180
caagtaaacc aagtaaaata agtgttggag taacacttgc ataaaagaat ttaaggagtg 240
atagctcttt ctgttctgcc attcccaaca ttcctggggg aaaggagact caatgagtta 300
atactatttc actgagccca agatggaaac ttggtttgac ctaaaacatc tgattaatat 360
aggctagctg atttcttaaa aattcgttgc attgaaggat attttgcatg tctgtaacac 420
nngncantcn tggttggant ggattcnnna tntnntnnca nttnnntncn nntaattggn 480
caaatnantt tngcnntaaa tantncngnn tcctnnngnc aaaatcnnga atcctnaggg 540
atggtccaac ccctttttatg gntggcctga aaangngaag aatggggaat tcctnttaaa 600
ccnttccatt caaaaaaaaa aaaaaaaaaa cctnggccct tttnnaactt ttnggggngc 660
ccgttttccc ttanaanccg accttggata ggaaccattg gatgaatttn ggccaaancc 720
ccaacttgga atggcnntgg aaaaaaaagg cctttaantt ggggnaaatt tggggaaggc 780
n 781

<210> 3135
<211> 760
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3135
tcnctcctna aatcgttggc gctctcttgc aggatccctc gattcgaatt cggcacgagc 60
tctcaaatag aaatgggaga taagaaatat atctgtgcaa tattaaattg aaaaaaaaaa 120
cccataaaaa gtgtcaaagg caaataattt gctctagatc acaaaactag ttagcacaag 180
gctaggatta taaccagggt ctaggaaaaa atcctgaagg tgatttaact gagtgttagg 240
ccctgtcaag ccacctgcta aggctcatgg tctttcagac tagcttcaac attccaaatc 300
aggcaatagc tacaacggaa agataattgg acggggaatc ctgagatcag agtcctagtt 360
tggctttgtc tcttgtagca ggatttttta aatcaggggc agctctcttc tcccatccca 420
gccatgaatc tttcaacctt agtggtcacc aacttgactc cattccttat atcaagcctt 480
gtcctgtcaa ttctccctta aatgttagtt gcatccattt ctaaatatat ccatggccat 540
caccctagta aaaagactat tacctcacac cccgcacttg atcttccccc aactttaagt 600
gactcagttc cttatatcac tgccacaaga attaacaccc atgtccatct tttcattttc 660
tgctgaaaga ttttcagtgg ttcccacttg aatnccaaat aaagttcgaa tcccttanaa 720
tggcattcac agccttntac ttctggnccc acttttatnt 760

<210> 3136
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 3136
gcctccttct ttcaaaacnc ttggctactn gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggccacacgg gccgcatcat ncctgcaatc tggttccgct acgacctcag 120
ccccatcacg gtcaagtaca cagagagacg gnagcccgnt gtacagattc atcaccacga 180
tctgtgccat cattggcggg accttnaccg ncgccggcat nctggactca tgcatcttca 240
cagcctntga ggcctggaag aagatccagc tgggcaagat gcattgacgc cacacccagc 300
ctaatggccg angaccctgg gcatcgccag ccttgcctcc agtgccctgt ntnctttggc 360
cctcaatctg gncccaaatc tggctgtgtc ccaaagggtg tgtgggaagt gggggaaag 420
tanaggatgg ctcgatgttt tgcagctacc tcttttnccc gtgttncttt ttagacaaat 480
tacactgcct gaagttgcan ttccccctttn cctggggagc ccnaagaaca gagtcnnggc 540
angggtggg gagtccaggg atcttggggg acccctccta aggagaagct tgcagtctct 600
tccntaaggg gaacatccca gaatgcatta tcgantcagc ttnttaagcc caggctttan 660
acaaattctt nnnagnnccc caattagggt nggacaccat ttaaatgaat ttgggtttac 720
ttccccctgg ggcaagncca ancttgccc ccanaaggct acncanaaac cttgggggct 780
tttaagcctt ttggggaccc aggnttggcn nnt 813

<210> 3137
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3137

gntcaatacc tgctactgnt ctttntgcgg attccatcgt tcgttcttca tgtttatatt 60
tcagagttct taatagtgat acttaaatat actatttttt ccctgtactt tcgaagattt 120
ggatatgagt tttcagattt aaatgtggga actcatttga gtataatccg tgaacagcat 180
ttgttcaaca cattttggg gaggccctgc tatatacaag tcattttcca agtcctactg 240
aggtattggg gttatccaga ttgtattatg gagaagctag tggtctttaa gaaataaaga 300
aataaggcta aaactcttta acagggtaga aaggggcagt tcatagggga gggaaatagt 360
atagaacatt catcctagga atacaagtga aatcactcaa attaccatgt agtcaatata 420
cagattgntc agtgcctcct atgtgcccag cagtgtgcta ggcccaggga tacaatgaag 480
aagaaccctg ccctcaaaaa atgcagccta aaagttttct tatggaaact ggaaatcaag 540
tttgggtctg gcattagagg cttttcttaa tgtattcacc tggtgtgttc aggtantttc 600
tgaagatata gaaatgtttg atgaaatgaa tgaagatacn gaatggtang attccagtat 660
caagctctat ctcataacag ttacatttcc tactaccttg caaaccctnt ccntactatt 720
atttaatacc ctttttttcac cccn 744

<210> 3138
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3138
aancccctttt tnnangcgnt tccntncanc tnaaancgnt tgnaactcnc nctntctgca 60
ggatcccatc gattcgctaa caagcgattc taaaccacct atgagtattt cttttagggc 120
tcacttaaat acatgtttgt atatactgta ttctagccag aataatttta gatctgatca 180
ggtagtagct aaaattagaa aaaaacaaaa tagatgctta aagaatttgc atccatttt 240
gagtctaaat cttttaaaat atactgagat ccacatctag tgaaatgtca gtgtcaaaat 300
attatagatt atagctaaaa tccagattaa tactcatttg gggtttttta tagtggaact 360
tcatagtaat acaaaaagca gattgtcttc ctgtctccgc tgctcccaca gtaggtattg 420
aaactggtaa aatcagtttt ttgatantgt gtgtatataa gaaaaaatag atacacacat 480
tctttttttct cagtcaacac attgattgaa cactctggca aagatgctgt ggtggatgan 540
gttggagttc gaaagaagaa gcaagcgctn gcctgccttg aaagaaccga agtctttccc 600
attcacttct ctagaaagct gccaagacag aagcagaaag aaatgggatg atagttctgt 660
caaagcacac ttctggnctc ttagaacctt agaagtgntt ctaagagaac agaagttatt 720
aagaagaaac nagntacgtg tgggaattca acaaccttng ggtnggaacc cattggcttn 780
t 781

<210> 3139
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 3139
ttcattccct ggctntgntc tttttgcagg nacccatcga ttcgaattcg gcacgaggtt 60
aaactgtcag tattggatct tagaagtaaa tgattattag gactgtaata gtaattatta 120
ggactgtaaa aggtaaagga ttattatctg cattagaatt tcntanatct aaaggatttn 180
ganactngag acntttannn ccaggnntct tttcctnaan tcnnaaattc caaattcatt 240
ngaantnggg aaagtgatgg gggnacaant ngcntncnat ccagggnntc taaantngnn 300

ncanntggcn cncnnncgnt aaannntactn tantntnccn tgagcccngn taaaaaactg 360
ngttacccct tgacgactag tggngattat cnatttttnc ccttnancgg gccctnattt 420
cttctaaccc cccacnntgc cttnntngat ttaaanaacc ttttgggngc aattccctnc 480
ctntcctaat ttangccccc cngangagtt ttatccnccn gnggnaataa attnccccca 540
agggaattgg aatccaancc ccccaaanaa attnngnncc ccccccttttt aatnggnctg 600
nnttgggntg ggnaaaanag gnttttnttt atccaaagcc nggggtttnn caataaanna 660
gntnnccngg ncccaataat atttttaaag ngcnacccct ttttnnnana aanctttttc 720
ccccccttt tttcnagggg ggggggntat tccanngggn nnaanccctn actgnnaggg 780
ggccaatntt aaatgccncc ccctttggcc cttcaccccc aaccccnttt ttntntttnt 840
tttttnnacc naanncaaat tccgnttttt gggttncccc c 881

<210> 3140
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 3140
nttcnatacc ttntctactn gntctttttg caggatccca tcgattcggg ctcagagggg 60
ttatgattcg gagggttctg ccgcacggca tgggccgggg cctcttgacc cggagccagg 120
cacgcgcaga ggagcttttc tctgggtaaa gttgaggacg acagagggta ttgtggttct 180
gggttgtccc caacctccga ctgtgtgtcc ttcaggaccc gaaaccatgg cccacactgg 240
caggacagtg ggtcggcttg gggaaggggg ttagcttacc taccagagct tgtaggggct 300
gtgcaggtgt atggctccca aggcggccct tttcaggtgg caggtctcac atcattctcc 360
atttaagctt acagtcagac tgattgataa tcggtggcac agatgtgcat taagtcctgc 420
ccgtgttcag gatgctgtac ttagtgctgt tgcggtaaag gagtgaagag aagacgggat 480
tcagtgaatg ttctggaaaa tggctagagt gtacctagag agggaaaatt tcaatagaca 540
gtaggccagt tcaagactgg atagaagccg ggcgccgggc ctgtaatcct agcactttgg 600
gangtcaagc cggtggatca cctgagctca aganttcgag agcacctgac caacatggtn 660
aaacaccgct tttctaaaaa tncaaaatta gctaggtgtg gtggtgggct cctgtaatcc 720
aggac 725

<210> 3141
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3141
ctaatagctn ngccnactcg ctctttctgc aggattcctc gattcgagaa catgaaggta 60
gcacagaaaa agagatgctg tcttgcaggg aatgttttat ttcaggaaag atatttgcaa 120
aggtggcaat gcagtggtgg atggttgtgg caaggcccaa acagcacgga gctcgctgca 180
gaggagtaca ccctcatgag catagacacc atcatcaatg ggaaggaagg tgtgtttcct 240
ggactgatcc caattctgaa ctcttacctt gaaaacatgg aagtggatgt ggacaccaga 300
tgtagtattc tgaactacct aaagctaatt aagaagagag catctggaga actaatgaca 360
gttgccagat ggatgaggga gtttatcgca aaccatcctg actacaagca agacagtgtc 420
ataactgatg aaatgaatta tagccttatt ttgaagtgta accaaattgc aaatgaatta 480
tgtgaatgcc cagagttact tggatcagca tttaggaaag taaaatatag tgggaaagta 540

aaactgactc atccaactag acattctaca gaaagaaaaa atgcattatt gacgaactgg 600
ctacagtacc atgcctnttc anccagcccg gtgtgtataa tatgaaagac canatgatag 660
aactgtactg ttttctgggc cagtgaccca gaaattggat taangctttc tttggtangg 720
taaatctaga agtttataca ntggn 745

<210> 3142
<211> 926
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(926)
<223> n = A,T,C or G

<400> 3142
tttaagccct ttctactnct cttttgcagg attccatcgn ttcgaattcg gcacgaggat 60
ctctatacta gtgaacagtg ccagttccac actttggact tagaactgtt ctctagttat 120
tgtaacacag aatactgtca atccctaatt tacttaatgt tacttattgg aagtggggct 180
gatgaaatac gcacaggagg gaaatctact gtgtttaggc acaggcagnc ccagtgtata 240
aggagatcat attccaaang gttgtcagtt ggntgtttgc aacctggaat gtattttcct 300
ttagagacca ngttatccat ggtggttagg cccctagagc agctggaaaa agatgatcaa 360
accaataggt tngctgacat cnaataatgt aataagtttg ctaaaggaat ctaccatcaa 420
atntnatatt gnttccaggg aaggttgtnn nttaannntnc cntcttngtg ncatantgga 480
cnntcccntn ccagtcatnt ncntnannnc tngggcnngt ntngnnttng tntntttngn 540
cnnctnanca atatttcata tcnccccctng ctaaaattct ttnanannaa nttctcantt 600
tctcccttta ctanaanttt ngtntttnnt ccntttanta tttnnnccta tntntntcgt 660
tcnnanatnt cattnnntnn ttntnngctn ntnnatcacc cttanctcnn tctcanntat 720
cntnntcnta ttatctctnt attnntcnct tntnatnatc nttccnnntt gtntanncna 780
ttatntcttg ttnntntnct cncatctctn tcntnttctc ngctnannnn actccnnnnn 840
tcncnctcnt nnnnanatnc atatnctnct ttngntatat annnnnntnt ntacntanct 900
cnnnatnnca tnncnatatn nttngt 926

<210> 3143
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3143
tnaagncctt tctnttgctc tntttgcagg attccatcgn ttcgcagagc tgtatcttca 60
gtggtgtgat gaagctacag taggggagat cactcatgct aggtatggat ctccttaccc 120
ttggcctctg aatcatattt tggcctatca aaaacagtgg gaagtcaaac gtaagatgaa 180
agctattgga tggggaaaga agactctgga ccaggtctta gaggatgtag accagtgctg 240
tcaagctctc tctcaaagac tgggaacaca accgtatttc ttcaataagc agcctactga 300
acttgacgca ctggtatttg gccatctata caccattctt accacacaat tgacaaatga 360
tgaactttct gagaaggtga aaaactatag caacctcctt gctttctgta ggagaattga 420
acagcactat tttgaagatc gtggtaaagg caggctgtca tagagttatg tgttagtctc 480
aggagtctta acttttgaaa tatgttttac ttgaatgtta catttagata tttggtgtca 540
gaattttaaa acccaaattt actggctttt tggaaacctt cnaaattata ttaatggtat 600
cttnatgnat tgtgccttta taattggcna ttttggggnn tttncntttt naaanaaaaa 660
ttcctngaaa tttattttaa antccnggaa taatgntnng gnaattcctg nnattccttg 720

gnnaantttt tntggngttc cctttgggaa accantggcc ttngcctttt tannaaantt 780
aaaagncntt taaancaaac ctggg 805

<210> 3144
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 3144
gtncttngtg nctntcngna actccctctn tctgcaggat ccctcgattc ggagaggagc 60
aggtgcagtg attcataccc actctatngc ttttgtgatg gccacccttc tctttccagg 120
acgggagttt aaaattacac atcaagagat gataaaagga ataaagaaat gtacttccgg 180
agggtattat agatatgatg atatgttagt ggtacccatt attgagaatn cacctgagga 240
gaaagacctc aaagatagaa tggctcatgc aatgaatgaa tacccagact cctgtgcagt 300
actggtcaga cgtcatggag tatatgtgtg gggggaaaca tgggagaagg ccaaaaccat 360
gtgtgagtgt tatgactatt natttgatat tgccgtatca atgaagaaag taggacttga 420
tccttcacag ctcccagttg gagaaaatgg aattgtctaa gccaaaagaa agtctaatta 480
tatacagaga taaagctaaa cgtaattatt atttaaatga aagctatttt tttaaatgaa 540
attggaaatt ttttcatgga tgcctnctaa atttggncac ttaaatacct gcaaaaatgg 600
gcnccccctgg aaacctcttc tgaccatttg gaatggtaat tnggccttaa taattccttn 660
aataaatttt ttaaaaatga angggccccc agnnggaaaa attggnaaaa aatttttnaa 720
tancntccna anggtnnnct ggggntaaat ttttttttaaa aatccccttt aaaccagccc 780
aaaaattatt tttggnccct ttaaatttcc ctttnnntna aaantantac cntcttcagg 840
aagnaaattc c 851

<210> 3145
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 3145
gctcnatgct tngcnatcgc nccttttgcgg attcatccnt tcgggaactt ttgaagagaa 60
aaattcgagc tagagggatt cttaaagcct taagttactt gaaatctatg tatttgcaac 120
cctttgtctc tggaatcata ttacactaaa ctggaatctc aggctgaatg agaataaccc 180
agtggagtaa aaagaagaaa accgtttctt gatcaccact taattaacga tgctctttct 240
ccaaaggatc agcacgttct tcctctgaga acttgaaaat acaaatggac cccatgtttt 300
tttaagcatt acctttttctt agaagactgc catcatcttt tatagaggaa ttttttcact 360
atgcanttcn gtggatcttt ataaaatact gaccttctaa ttagattcag gtcagtctta 420
attaaagggg gaaaaaaagc aacgcaagcn caaccacagn aacnccatat tcccaaatga 480
aaggaaattt ggtttaaaat ttcacagcat taaacattac tttttaaagt aaaacnagtt 540
catttgaaga aagtatgtat tgcancnant ggaacatggg cctggngctt ttgcagtggc 600
cttcaacctn ctgtgcctgt ctggaanggg cgtgttccca agagtgagan ggagaagcct 660
ggtgtncang aaacgctcct attaangaaa gnttnncttg gccaccgggc caacggggcn 720
aagaatggtt tggggtggnt ttnacctctt atcantgc 758

<210> 3146

<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 3146
cgctttttca natcgttggc tactcgttct ttntgcagga tcccatcgat tcgttgagaa 60
cctgcctcta tcccagaatg tgctggagat ttgacactca natcantgtn tngncttctg 120
cttggcncca tancttaacc tgcagtgnct tcaaaatgcc caatgccttg tttcctatta 180
ccttanatng cnnnccagtc tagggaagtc tatgagaaag tngcatttaa ttaaagttta 240
aaaaaaaaaa ggttgggcnt tgnggctcat gcctgtaatc ccagcacttt gggaggctga 300
cgcgggtgga tcactaggtc angagttcaa gaccagnctg nccaacatgg tgaaaccctg 360
tctgaactnn naatacnaaa attagctgag catggtggcg tgtgcctgta tctnagctac 420
tcacganctg nggcaggana atcgcttgaa cccannaggc ngaggctgca gtgagctgag 480
attgtgccac tgcactccaa cctgggagga caganctaga ctcagtctca aaacccanaa 540
aaaangccnt tttttctggt ttnaaatggt ttnggaanac tttttttttn tttgggtccc 600
ntanccttt ccctngaaac ccctttttct tggaancccc tnaancccaa aaatttttat 660
tagcccnttt tttnannaag gggggtttaa tncttaaagg ggccntttan ccttcaatnc 720
naaaaaaaaa aaattgcccg gcnaggnccn ttttacccga gttgcaaatt taattttnaa 780
taacccaact ntgggccttt aaaatttaan annnaagntt cttgggtnac ccnanntntn 840
tngggggccct tttttgnaaa acccttttata ngggggggng 880

<210> 3147
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 3147
caatgcctgc tngtcgtcgt tgcggntcat cgttcggttt tttggtgaac actgatttta 60
ttggtgtctt agatccctag tctacccaaa taattttaac agtactgttt tttctaatcc 120
tgaagtctga tatttatgac tcattagcag gaatcaaaac tagtgatcag tagaacactt 180
tcaaaataaa aatttggaat gcagactttt atgaaaattt aaaagtgctc cttaacagaa 240
tatcatgggt tttcctataa aacttcttta agtattgtaa ttccagtctg ccccaactta 300
aaaaaaaatt cttattaata tgtcagtcat taattgctag tttgggctct cattatttcc 360
tgttttttaa caattttgtg ataattttat tattggcaaa ttaatacatc aacacttaaa 420
tcattgacta taataatacc ttctggctac ctctgtatca accaaattct gtaggtgcaa 480
acatatacca gggaattctt actggcaaaa tgatcaatct ggagtgtgca tccactgtga 540
atggagcaaa ttgccctata cccattgata acctagcttt cttagtttgt agatgtagga 600
aacaaaatag tgacagagag agaaaggggt ccacagggca tggtatattt atcagcagtg 660
gaaaaaaagt gcatagatca tttagtccaa gaacttaaaa ctaaattgag ccataattta 720
ctt 723

<210> 3148
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3148
gcttcaatan ctttttctaa ngctcttttt gcaggattcc atcgattcga attcggcacg 60
agagtaccca nanttgcnag gagtntnntn actgatntag ccaggtggca atnatgagtg 120
aatggatnaa naaaggcccc ttagaatggc aagatnncat ttacnnagag gtccnagtgn 180
canccagtga cangaatgag tttnaaggga tgggttttaa ctacagaccc agnctctgcc 240
aatatngacc ttgtgaactt ccttgaagat ggcancatgt ctgagaccgg aattatggga 300
catgctgtgc agactgttga aactntgaat gaaggggacc atagagtgag ggataagctg 360
atgcattttg ttcacgtctg gagactgcaa agcatacagc ccacaggatc tggaagagag 420
aaagaacagc ctanagnaaa tggctngaga ngaaccacat tcccatcact gaacagggan 480
acgcttcaag gactctctgt gtggctgggg ncctgactat ngacccacca tatggtcana 540
naaattncac cagctctnat gagantattn tgtcgcgtgt tcaggatctt antgaaggac 600
atcttacant ttnccaanna naagncatga aatgtgacat tctgcttgaa naagacnata 660
ttttatcctc atnaatgttt aaatgtaaaa nnnnananaa aanactcgag ctntnaaatn 720
tngtgagttn anang 735

<210> 3149
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 3149
gcttctaatg cttttcgant ngcnntcntt gcaggatttc caaatncttg gntgcatcct 60
ctgatggcnc tgtaaagatc tggaatatga agaccacaga atgttcaaat acctttaaat 120
ccctgngcan caccgcangg acagatatta ccgtcaacag tgtgattcta cttcctaaaa 180
accctgnnca ctnngtggtg tgcaacagat caaacacggn ggtcatcatg aacatgcagg 240
ggccanattg tcagaanctt canttctggt annagagang gtngggactt tgnntgctgt 300
gccctctctt cccgtggtga atggatctac tgngtanggg aggactttgn gctctactgt 360
ntcngttcan cnactggcaa actgganaga actttgacag tgcaacgaga nggatgtgaa 420
tggtattgca catcancctc atcannaacc tgattgctac ctacagtnan nnatggactt 480
ctaannctct ggannccatn antcaacttt tcttgtataa atnagctcna aagcntntac 540
tttaaatgaa gccatnntca tggtaatgtg ctttnatntg ttttttgccn ncntgttcta 600
aancaaatac nattgtcnna aattnannnc cncaaataaa ttttttgtgg aaananttna 660
tgnttttnaa anttagcnaa nctnnccccn tntctctttg tgtgaanatt aagcttttaa 720
agggnagttt nggnnntant ccatnctttc naaactgggn tgnccggtca acnttaaang 780
ntcaaacaat taaanncn 798

<210> 3150
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 3150
gnntctatnc tnggctcttg ncttcttgca ggatttctaa tgcttggatt cggcacgaga 60
tcaccctggc acgttcccct cagctgggct ctgcagggca gctaagattg ggcactgatg 120
ttcctggctt cagtcctacc cgggttatgc agctacggct tcatacatac accagttgca 180
ctaacttggg atgaaaatta agttaaaacc agtagaaaat ttcatcctat gttttggtgg 240
taaaagaagc aaatgaacaa atgaatagag gctgccaaac agttgtctca ccaactgttc 300
cgactagcta acaagattag ctaggtcata cctagtcgta aaagaatact ataagaactc 360
agaaattcga catatttcta ctacttgctt gtcatgtaga taaacagatt aaaagaacca 420
taaaaaaaca aagagaaaat aatagtagga ttagagagca tgttatcatc tcatgggctc 480
acttggcctt agaaagaggt gtttatccat catgaatatg aatccagggg tctgaatgga 540
tataagagaa ccaaatgtaa cagaaattta atatcatttt ttcctctgag atgaaacatt 600
ttacattttc cagtttatta gataaaatta ctaaacatgt tctagaccct ggagttgtag 660
attttatgat gttggctgct gtggantggc catgactggg ttttcaaatg ntaatttgat 720
ttctttttaa tc 732

<210> 3151
<211> 910
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(910)
<223> n = A,T,C or G

<400> 3151
gtnnncttca ttcaatccct ttgcanntgc tctttttgca ggatccctcg attcgaattc 60
ggcacgagct tgacttccaa ctgcccctga gatttgnnct ccagtataag gggcaagcgg 120
gtgccctgga ncgtccantc ctnattcanc nancanggct tggnttttnt gnaaaaactt 180
gttggnagtc ctgncanaaa agctgcggcg gaaatgggca ctgtggcttt ccccgtttca 240
ggntggtggn gattcctgtn gggagtgagc aagaggaata cgccaaaaag ggacagcnga 300
ncctgcnggc tgcaanactg gtcagtgacc tggatgcana ctttttgact gacccttag 360
accngagaaa tcctaccggg ccccannttt gncccantaa caaanttttc angttttgnt 420
gggttnggcc cataaaanaa gcaactggtt ngaanaaaca anttgaaacn ttttcgggaa 480
aaaaangcta ntttggngca ccntttgccg caatttgggg anattttccc tngnnaaana 540
ngttttnncc ccnttggttc gacaattttt cccnnaaata ntctnncggg gtctnnnaaa 600
antntccngn gngnanaaat tttttttng gnnctcntnt nanannnttt ntnttgnnga 660
tcnaaaanaa nttgntnatt tgacaaatna ngcncnaant ataanntggn aaancccenc 720
aaacctgttg aaaacaantg tnnccccccn aaatttttna naaanactgn ttggagaccn 780
aaattnntta tnttcntnan naaaaaaaan ttttgttngn gnncccnctc aatntgnggg 840
tggnaacttt tcatncnnan ttnntttggn taggtaaatt ntnatcttct ncttnaanaa 900
aaaaattcnc 910

<210> 3152
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3152
gnttnnncct tttcantnct tggctctcgn ctttntgcag gatccctcga ttcgaattcg 60
gcacgaggtc tagtataatc ttgatgctca aaccagataa ggacaataca agaaaggaag 120

agtataggct aattctaccc aataactaaa tgaagtatta gcaaaccaga ttcatcaata 180
atcttttaaa aatcaagaat taattggatt taggaatata acactgtgta taacaagttt 240
aagagaaata tatgagaatg ataagactgc aattgaaagt agaggctttc tctggaggga 300
aaggtgagga ggatgtgatt tggaagaaca gcatggggag gcatcagttg tattgtaatg 360
tttatttttt aagctgaatg ataggtacgt agatgttcat tgtgttcttt ttgccttttt 420
gtatatctta aatatatggt agtgccatga ttagcaggct taatagcctt gtgagtttaa 480
atgtcacttt caaatgctgt atttttggtg gagttgctta aacacattcc ccttggnatc 540
tatacaacca gttaaaaaaa atcatgtata naccacccat tgaaaatata atggaaatgt 600
actgnatatg ccattttcat gaaatggttg tgtcaaaggg gcttnttagg aaaaaaaaag 660
atcgtttaac tctttttgca tttaagtgga aaataaggtg ggctttngga aatagtttca 720
acccttgctt aaccagtttt ttttttcatg cttnn 755

<210> 3153
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3153
tnaagncctt tctnttgctc tntttgcagg attccatcgn ttcgcagagc tgtatcttca 60
gtggtgtgat gaagctacag taggggagat cactcatgct aggtatggat ctccttaccc 120
ttggcctctg aatcatattt tggcctatca aaaacagtgg gaagtcaaac gtaagatgaa 180
agctattgga tggggaaaga agactctgga ccaggtctta gaggatgtag accagtgctg 240
tcaagctctc tctcaaagac tgggaacaca accgtatttc ttcaataagc agcctactga 300
acttgacgca ctggtatttg gccatctata caccattctt accacacaat tgacaaatga 360
tgaactttct gagaaggtga aaaactatag caacctcctt gctttctgta ggagaattga 420
acagcactat tttgaagatc gtggtaaagg caggctgtca tagagttatg tgttagtctc 480
aggagtctta acttttgaaa tatgttttac ttgaatgtta catttagata tttggtgtca 540
gaattttaaa acccaaattt actggctttt tggaaacctt cnaaattata ttaatggtat 600
cttnatgnat tgtgccttta taattggcna ttttggggnn tttncntttt naaanaaaaa 660
ttcctngaaa tttattttaa antccnggaa taatgntnng gnaattcctg nnattccttg 720
gnnaantttt tntggngttc cctttgggaa accantggcc ttngcctttt tannaaantt 780
aaaagncntt taaancaaac ctggg 805

<210> 3154
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3154
tnnnnnnntt tcaatntttn ancgtccctt aggatccntc gattcgatcc agatgggata 60
cctctaaaca cgaaaagaaa gaagattcca ttantgaatt tttaagtttg gtttnatcaa 120
aagccgagcc acctangcaa cagtccaccc ccttagtaaa caaagaggaa nagcatgcac 180
cagaatcatc cgcaaatnag acagtcaaca aagatgtgga cgcacaggct gaangagaag 240
gganccgcca tccatggact tattcatggc catctttgcc agttcctcat atgaaaagtc 300
ctnatcctgc gangatganc acggtgacag tnaanatgat caggcacgct ctggngagga 360
caacttccaa agctggnaag acactgactt ggnggaaaca tcatctgtgg ctcacgctnt 420

tgtgccagng ccctaggagc cgtcaccttc cttcccgata caaangatgc agatagatna 480
naganaagag ntcggccngn ngctgcctcc cgtcttatgt nccaatgctc gtcagacact 540
tgaagttnct canaaagaga aacattccaa gaacaaagac nagcacaang gcaatanaga 600
acacaggccn gaaagaattg anangaaatt ggaaacactn gaagcacnaa acacctaang 660
naatccaaaa naattggcaa accaggggaa aagtaggtnc ctncgngaag tttcgacagc 720
cngcggacaa gccanaattg acnatgaaac cgcatacgtg tcttnc 766

<210> 3155
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3155
ttngaaaacn ccttngcttn gttncccctа cngaaaccct tttgaaaacc ntttgcnann 60
tcctctttnt gnaggatccc atcgattcgt gaaagaggag atcggtgacc tgggctcctt 120
atgtgcctga atgagtttga gtttcctgtt aactccaaat caacagtatt ttcaacaaga 180
aatgtgcaat tgaaatcaag tgctgtttaa gtgcagctag gantccacag gaagacactt 240
gcagtgaaca gagttatgga gcagcaaaaa cacagatcta tttggaaaaa gagaaaacat 300
atgcgttgta ttttgcttca attataaaat accatcctct caaaggtggt tctaaattac 360
aaaggacttt gatttctagg tagattctgg gtagagactt cctttcatat tgaggcatta 420
atgacacctt ttaacctggg aagcaatatg actggagttg tactttgaga agattaatca 480
ggtttggttg cagaatgaaa gagaagatga agtcaagaga ttggtttaga ggctctagca 540
gaagcttagt catatttcaa aatgatcaaa tatcaagaaa aattctgagc tgcataactt 600
gtataaagta attttcagtg attttttca tggttatgat aaaagaactg gattagcaga 660
aacttttacc ctgaatcaag atttaatttt tctttgagct catcttaagg atatcggaac 720
atagggagca aacgatggtg tggctgcctc antgcttgaa ttttaacngt tttgaaan 778

<210> 3156
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3156
nanatccnnc nantncttnt tgttcntgtc cgnangatcc catcgattcg aattcggcac 60
gaggtttcat ttaagaagaa tganctagat anatgtgctc ttctggttac cccaccctga 120
cagagtgcat ttttacacgg ctagcagggg ttgagactgc agcctggcct gccagccatt 180
ggaggtgttt aaggaagggc agataatgtg actctttgcg gggtgccatc tgcttaccca 240
ttagcgagca naggggggttt ctgcgggtga cccccagcat atttctaggt tacttatggg 300
cagatttgta agtgacaaaa ctccagctga tgctgggaat ggggagaggg cccttgaggg 360
actttgtggt tttgtgcttc tggtttcctg gccaacccca gggtcacttg tctggaggcc 420
cagctgggca ctaatgtctg ccaccgacta tgttaaagtg tataaatgat tcctctattt 480
gggagagatc ttccaatcca gaggagcccn tcttggactg cctgggttaa atctgcatan 540
cagangtggt tgatgaagtt catctgaaga aattcagccc cacctnccca ccctgccntt 600
cctgctccct tttgatagtg gcttctgggt actcgggcnn gtncttggga caccancctt 660
ntctgggggt ctnaagccat cccgttgggg ctgtcggcca agcctaagtt aatcgtgtgc 720
ctntattggg aggatngctn ntcct 745

<210> 3157
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3157
ttnnnnnnct ccnaatcctc cngatnanat cnctttgnan ctncctgcag gatcccatcg 60
attcgaattc ggcacgaggt ccatacatgg agctccctgg agcccgtgtg ntntcgtgtg 120
actgaacgtt ttgtgatgaa aggaggagag gctgtctgcc tttatgagga gccagtgtct 180
gaattgctga ggagatgtgg gaattgcaca cgggaaagct gtgtggtttc cttttacctt 240
tcagctgacc atgaactcct gagcccgacc aactaccact tcctgtcctc accgaaggan 300
gccntngggc tctgcaaggc gcanatcact gccatcatct ntcagcaagg ngacntatat 360
gtnnntgacc tgnagacctc agctgacnct nccttngtan ggttngatnt nggaagcatc 420
ccaaggngat ttagngacnn tggantcctn atnactgata anacncnaac tatantnttt 480
tacccttggn agcccaccag caagaatgag ttggagcaat cttttcatgt gacctnctta 540
acanatatac tctgaatgaa tctacgttgt atttatcagg nggacaatgg gaataaagcn 600
tttntaaagc accnantgga catgaaagca acagacacna ggagnnaagc cttgagacat 660
gtctgnnntc tgaccgcatn ttgatccant gntctgtgan ganttnttca ctgaacattt 720
tcaagaggag ggtgnatacc cctggcaatn gcccnaanaa ag 762

<210> 3158
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3158
tgntttcccn ctnagatcct ttctcacaac cttgtantgc tgcangatcc catcgattcg 60
cgtctgtaat cccagctgct tgggaggctg aggcaggaga atcacttgaa ccctggaggt 120
ggcggttgca gtgagcacag atcatgccac tgcactccag cctgggcaac aaaacgagac 180
ttcgtctcaa aaaaaaaaaa catagaattt ggatcctttg gtcgggttct cccaaattct 240
tttgaggtgt ccatggtcaa ctgcttcagc tttgtnttgg caaccccctg cccgaanncg 300
catntaggct gctcttcacc ttgtttccaa ggctgangaa cagaaagtag cctntgtttt 360
gaggangtng aagttnanta tacatnnatt ttntactgng actngntcag gaccacattt 420
tacaaaatgc ctngtttcct tcattgnntc tggaaaggaa agttctatta atattgnttt 480
actntgaata tanaatagtt ttnantaatt agggcttatt tnnaaaaatt ctgagctaat 540
tcaaatgtat gccaatacct tccaaagtaa ggtaatattc anagacaagt tgctgtnatc 600
anatggctta nagaaaatct ctggaatatt cacattctaa nattncttat taatngaatg 660
tcctttgact taaatctacc aaaaaactgc aacattantc tttgncatnc tcattatata 720
gngttaanaa gcttatttca nacnaataaa atctn 755

<210> 3159
<211> 753
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3159
ttnccccent tttntnectt tgtctcatcc ttgngccttt tgcaggatcc catcgattcg 60
cgtctgtaat cccagctgct tgggaggctg aggcaggaga atcacttgaa ccctggaggt 120
ggcggttgca gtgagcacag atcatgccac tgcactccag cctgggcaac aaaacgagac 180
ttcgtctcaa aaaaaaaaaa catagaattt ggatcctttg gtcgggttct cccaaattct 240
tttgaggtgt ccatggtcaa ctgcttcagc tttgttttgg caacccccctg cccgaagtcg 300
catataggct gttcttcacc ttgtttccaa ggctgaggaa cagaaagtag cctctgtttt 360
gaggaggtgg aagttaagta tacatttatt ttttactgtg acttgttcag gaccacattt 420
tacaaaatgc cttgtttcct tcattgtttc tggaaaggaa agttctatta atattgtttt 480
actttgaata tagaatagtt tttttaatta gggcttattt tgaaaaattc tgagtttaat 540
tcaaatgtat gccaatacct tccaaagtaa ggtaatattc anagacagtt gttgtgatca 600
gatggcttag agaaatttct ggaatattca cattcgaaga ttccttatta atgaatgctt 660
tgacttaaat ctaaccaaaa actgcaacat tattctttgt acattttcat tatatagtgg 720
taacaagctt agttgcaaac aaatgaaata ctt 753

<210> 3160
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3160
ggntttnnan nctttctaat ncttggcttn agttcttttg caggatccca tcgattcgaa 60
ttcggcacga gagtacccag agttgcgagg agtttttaa ctgatttagc cnnntggcaa 120
tcatgagtga atggatgaag aaaggcccct tagaatggca agattacatt tacaaagagg 180
tccgagtgac agccagtgag aagaatgagt ataaaggatg ggttttaact acagacccag 240
tctctgccaa tattgtcctt gtgaacttcc ttgaagatgg cagcatgtct gtgaccggaa 300
ttatgggaca tgctgtgcag actgttgaaa ctatgaatga aggggaccat agagtgaggg 360
agaagctgat gcatttgttc acgtctggag actgcaaagc atacagccca gaggatctgg 420
aagagagaaa gaacagccta aagaaatggc ttgagaagaa ccacatcccc atnactgaac 480
agggagacgc tccaaggact ctctgtgtgg ctggggtcct gactatagac ccaccatatg 540
gtccagaaaa ttgcagcagc tctaatgaga atattctgtc ncgtgttcaa ggatcttatt 600
ggaaggacat cttacagctt ccaatgagaa gccaagaagt tgtgaacata ctgattgaaa 660
aaagacttta ttttaatccc tcattaaaan ggttttaaat gttaaaaaaa aaaaaaaaaa 720
acttcgagct tttaaactat ngtgagtcga ttcntataa 759

<210> 3161
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3161
ttctcctgaa acgcttngca cttccctcnc tgcaggatcc catcgattcg aattcggcac 60

gagacactgt cccactccat cacccaggct ggagtccagt ggtgtgatca tagctcgctg 120
catcctccag ttcctgggtt caagccatcc ctcctgcctc agcctcccca gtagctggaa 180
ctacaggtgt gtgccatcac acctggcttt acatttttct gtggggtctt actatgttgc 240
ccaggccggt ctcaaactcc tgagctcaag tgatcctctg nctcagcctc cagagtatct 300
gggattacat atgtcggcta ccgtgtctgg ccgttcacat ctttggccac tattngcttg 360
tgaaaaggta tnatgaggtg gtacttatca tngttactgt gtctcatgtt nngtatattt 420
ttgcttcatc aactaagatg cactgtaaca tctgtgaaat ctggatatat tatcaaangg 480
tttatcatag ttttgttaac aatacactgt cgttttactn ggtgcctaan ataatggtat 540
agttgngagg tgatcttaga tttgatgaag cacagtatgc aangtaggcc taatggnggg 600
aaagaatggg naattttcan angcnnggaa gtatttgntn ttttgtaaat ggacttgaaa 660
agcttgttct gnnggattgg acccaacccc tttccctttn aaaccccgaa ttctnatnga 720
ctnttccaac ttngaaaact ttgctcnaac ttaaatacct ttnaaaaatt aaccntgacc 780
ccg 783

<210> 3162
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3162
ntntttgaat ctttgaaata cctttgctat ngttctttnt gcaggatccc atcgattcga 60
attcggcacg agaggttgct cacctgaagg agcacaggag ggttttccag gccatgtggc 120
tcagcttcct caagcacaag ctgcccctca gcctctacaa gaaggtgctg ctgattgtgc 180
atgacgccat cctgccgcag ctggcgcagc ccacgctcat gatcgacttc ctcacccgcg 240
cctgcgacct cgggggggcc ctcagcctct tggccttgaa cgggctgttc atcttgattc 300
acaaacacaa cctggagtac cctgacttct accggaagct ctacggcctc ttggaccccc 360
ctgtctttca cgtcaagtac cgcgcccgct tcttccacct ggctgacctc ttcctgtcct 420
cctcccactn cccgcctacc tggtggccgc cttcgccaag cggctggccc gcctggccct 480
gacggctccc cctgaggccc tgctcatggt cctgcctttc atctgtaacc tgctgcgccg 540
gcaccctgcc tgccgggtcc ttgtgcaccg tccacacggg cctgagtttg gacgccgacc 600
cctacgaccc tggagaggag gacccagccc aagacccggg cctttggaaa acttccctgt 660
gggaagcttt aagnnccttc nanangccac ttacccaacc ttgaggggnt ccaaangccc 720
gccanccggt nattaaccaa ggccctggnc aatgcctgaa ggtcaaacaa tn 772

<210> 3163
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3163
tcnnncnctt ttcgatcttt tgagncttgc ctttgaaccc cttggntacg anttcggcac 60
gagggaacca tgananccna gagctagaat tgctattgga tnncgtctat tctctntttg 120
cttattgggn cgngntncgt ggttnctggc ctcangggtn nncccgaang angggtatc 180
tnngagcnan ttntgcnntt tacnggctag cttgntgggg gcttaanntg ccactnttan 240
acatgctnta ctantcantg agannntncn ntcgaccatn tannacnatn ctgtgnnntc 300
cngtacnctn tggccgnatg gagctattag cttcaanatg nntcgnantg ttacatgcan 360

ncactgannt nactatccan natntaagtn ctcttngctt actgtgaaca nnngctactn 420
ncttggatat tatagnaagg ntcnttgata cncgatnatc ntncntgtca gatcnataaa 480
tancanctat accnactgtn naaatnccat ctggnggnct tncnatccan acataattgc 540
attannncgt cnaattgnga tanagtnttg aaagantctn ggtttagacn ttggatgttg 600
caatgnttgt gncttanaan ttatgtgctg gctactgant aanctggggg catgacntta 660
ctggnttgac ctaagnggng aantcnatgg tccgattgct ggnccctanc cttaagnttt 720
gccatgaata ggnctttgc cctaaaataa naccccttt 759

<210> 3164
<211> 853
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(853)
<223> n = A,T,C or G

<400> 3164
ttttggancc nttctttgan nctttctaat gctgggntac tcgntctctc tgcaggntcc 60
catcgattcg aattcggcnc gaggatcagc ccacctcggc ctcncaaagt gctgggatta 120
caggcgtgag ccaccttgcc cagcccacat catacagttt gaaatgaaac tttgccacaa 180
ccagcctttg ctgtagcaca cacatatatc actgaacctg tttgaaataa agttttttt 240
ctttntcctc tggtattctg ggttctgaag tctggtattc tggtattctg ggttcaaaag 300
tatgacttga gagtgttgct ctggtattct gagagttgct ctgtattctg ggttctgaag 360
attatttgaa aaataactcc tactacattg aaatgcagac ttaaaaattt aaacattgga 420
ttangcagtc aaaaaaacca agcaagcata aaaggtcaat aagttgtaat cttgatagta 480
aaggtggaaa acttattata aatggnaang aaagttttat ttccttttt gtttgaatgg 540
gcaagtatgc catattatac ccaaaagttc ttttaaaaaa atatttccca ttcaacccat 600
ttttaattna aaattaaaac cattttgnaa gggaaanttt acccaanggc aancctttt 660
tttcctccaa aaaggttnac cntgttnatc cttcttttn ggnaaattta nccaccaatt 720
tttttaaagg ngggncaatg gggnttaaaa ntanccctgn aagnnatttt ttnanccttc 780
caggtttaaa antccccttg gatngggtct taacctgggn gggtngnata naaaaaaata 840
natcctnttt anc 853

<210> 3165
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3165
gcgttctttg aaagccctnt tttgaaaggc ttgcttctaa ttacgggaaa cctttgcaac 60
tgcagatccc atcgattcga attcggcacg aggacccagg tagaccagct caagagttca 120
tgttctttgt natcctcctg tgagctctct gtaagtcnnt ttcttgccca tcaccacatc 180
cctagtactg ggtatcagtc tggccacttg gctttctggt ttgccccaat gtggtctatt 240
cttgatgcag ctaccaaagt aatgttttaa aaccattata ccaagttact atccttgtca 300
aaaccccag taactgccaa tctcacttag aataaaatcc ggactcctgt gaagcacagc 360
ataaactggc cactgcctat gcagcaacct catctttacc gnttcctgcc ttgctcactc 420
ccttccagcg ccgttattct tcctgatgcc cctagtacac aacaactcct tcctgctcca 480
agagtaggaa aattactggt ctctctgcca gngagaancc tcttctggna ttacctttgc 540
ttcattgcng aatcttctnc aatatcatct tctaaaaaga gccttttaaa aatcaccttt 600

nctatnatgc cctactcatt tccagtccct gaaanggcca ttcccacttn antannactt 660
attgctaacn tgaaatacac taaatgnnan ccttcatgaa nggtanggca anttaaatgc 720
nttngcactg gnnaggcnaa gagaacaagc ancntggntt canaagn 767

<210> 3166
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3166
gcgttctttg aaagccctnt tttgaaaggc ttgcttctaa ttacgggaaa cctttgcaac 60
tgcagatccc atcgattcga attcggcacg aggacccagg tagaccagct caagagttca 120
tgttctttgt natcctcctg tgagctctct gtaagtcnnt ttcttgccca tcaccacatc 180
cctagtactg ggtatcagtc tggccacttg gctttctggt ttgccccaat gtggtctatt 240
cttgatgcag ctaccaaagt aatgttttaa aaccattata ccaagttact atccttgtca 300
aaacccccag taactgccaa tctcacttag aataaaatcc ggactcctgt gaagcacagc 360
ataaactggc cactgcctat gcagcaacct catctttacc gnttcctgcc ttgctcactc 420
ccttccagcg ccgttattct tcctgatgcc cctagtacac aacaactcct tcctgctcca 480
agagtaggaa aattactggt ctctctgcca gngagaancc tcttctggna ttacctttgc 540
ttcattgcng aatcttctnc aatatcatct tctaaaaaga gccttttaaa aatcaccttt 600
nctatnatgc cctactcatt tccagtccct gaaanggcca ttcccacttn antannactt 660
attgctaacn tgaaatacac taaatgnnan ccttcatgaa nggtanggca anttaaatgc 720
nttngcactg gnnaggcnaa gagaacaagc ancntggntt canaagn 767

<210> 3167
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3167
gcgttctttg aaagccctnt tttgaaaggc ttgcttctaa ttacgggaaa cctttgcaac 60
tgcagatccc atcgattcga attcggcacg aggacccagg tagaccagct caagagttca 120
tgttctttgt natcctcctg tgagctctct gtaagtcnnt ttcttgccca tcaccacatc 180
cctagtactg ggtatcagtc tggccacttg gctttctggt ttgccccaat gtggtctatt 240
cttgatgcag ctaccaaagt aatgttttaa aaccattata ccaagttact atccttgtca 300
aaacccccag taactgccaa tctcacttag aataaaatcc ggactcctgt gaagcacagc 360
ataaactggc cactgcctat gcagcaacct catctttacc gnttcctgcc ttgctcactc 420
ccttccagcg ccgttattct tcctgatgcc cctagtacac aacaactcct tcctgctcca 480
agagtaggaa aattactggt ctctctgcca gngagaancc tcttctggna ttacctttgc 540
ttcattgcng aatcttctnc aatatcatct tctaaaaaga gccttttaaa aatcaccttt 600
nctatnatgc cctactcatt tccagtccct gaaanggcca ttcccacttn antannactt 660
attgctaacn tgaaatacac taaatgnnan ccttcatgaa nggtanggca anttaaatgc 720
nttngcactg gnnaggcnaa gagaacaagc ancntggntt canaagn 767

<210> 3168
<211> 754

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3168
tttggagntc tttctttcta atncttggct actngntctt tntgcaggat cccatcgatt 60
cgaattcggc acgagcggac ccatcggagc gtaacctgga tctccgcagg cctggcggag 120
gccggccacc tggaggggca ttgcttggtt cgcgtggtag cagaggagct tgagaatgtt 180
cgcatcttac cacatacagt tctttacatg gctgattcag aaactttcat tagtctggaa 240
gagtgtcgtg gccataagag agcaaggaaa agaactagta tggaaacagc acttgccctt 300
gagaagctat tccccaaaca atgccaagtc cttgggattg tgaccccagg aattgtagtg 360
actccaatgg gatcaggtag caatcgacct catgaaatag aaattggaga atctggtttt 420
gctttattat tccctcaaat tgaaggaatn aaaatacaac cctttcattt tattaaggat 480
ccaaagaatt taacattaga aagacatcaa cttcactgaa gtaggtcttt tagataaccc 540
ctgaacttcg tgtggtccct tgtctttggn tataaatgct gtaaggtggn agccantaat 600
tntctgcaan aagtangnca gcacttttca gtgatttgaa tatcatcttg gcttngangc 660
cangtggaca accttgtcat aactgacttc tgaaaagaac cctntngata tttgatgcct 720
cnggtgtngg tggaactgtc atttantngg anna 754

<210> 3169
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3169
tctgnnctnt gtntccttgc tcgtgttctt ttgcaggatc cctcgattcg aattcggcac 60
gaggactgga gaagtcagaa gtagaaaagc agattgctag gagagacagg atgacagatt 120
ttggtcagaa aatgggatat tggagtttaa agtatcaaat acagaatagt tccagatgtt 180
cagagatcca gcatgggatt aggtactgaa atggattaga actaaaagtc actagaattt 240
agaaattgag aaccatgaga gtggatgcaa tgacttgttg cttgattgaa aaataaatta 300
ataataataa aggaccatga gactagcctg ttataggggt tatctccatg aacattgaat 360
tttcccagga tcatagcagg aattgggtag agaaaaagat tatgagaagg tgccagagtc 420
ttcagtgaat gtcaggaaat taccaggaag tcagcatatg acagagaaaa ggacagtatg 480
ttatctgcat caaaggaaaa tgtgcttttg ttgaaaagta cagaaaaagc caatactaca 540
atactgtgct aagcccctac ctgtactcct ctcccacagc tgcattccag ccctgtggta 600
taaaaggtgt gagaatgagc ttttccacca gaatcagcag gtttagttaa agcatgagca 660
gaacaagcat nctatgaaga gactgaggat gtaggtgagt ggtctaaatc tcatnnaagg 720
acattgcagt ngat 734

<210> 3170
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)

<223> n = A,T,C or G

<400> 3170
gaantccttn nntttnaaat cnttggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gatctagata ttgcccaatc gctgcccaca gtgcacatac ctttccacca 120
gtcacatgtg agagggcaga ttttccaaat gctcatcacc acttggcact gtgtggacta 180
taattttggc cagttaggaa atggcatctc attgttttca tcttaatttg cgtcagcctg 240
attactcatt gaaacttgtg aggttgagaa acttttctta agcttattgg ccattcaagt 300
ttcctccttt atgaaatggt tgttcatgtc atttgctcat ttttatatta gattgttttt 360
ctttttcca gctgacttgt aggaactcta catcttatca atattaatca tttatcgaaa 420
actatttggg tgccattatc ttctcctagt caatgttttt tgtttgtgat atcttttata 480
atatataagt ttttaatgtt ggcagaagta aagttaatct ttttggctgt gttgtgtgtc 540
ttgtttgatg taaagatagt ttctgtaata gttttgcagt ttgattggtc atctttaggt 600
cttcaattac aacctgcaca ttcatccctc tatcctcttt cttactctgg ttttctccat 660
agcacttatc atccaataat atggcatgca cttatttaat ctggtttgca tatatatttt 720
ngctggtacg 730

<210> 3171
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3171
nggnttcnnt ctaactnaaa cngttnggna actcncctct ntctgtngat cccatcgatt 60
cgctaacaag cgattctaaa ccacctatga gtatttcttt tagggctcac ttaaatacat 120
gtttgtatat actgtattct agccagaata attttagatc tgatcaggta gtagctaaaa 180
ttagaaaaaa acaaaatага tgcttaaaga atttgcatcc atttttgagt ctaaatcttt 240
taaaatatac tgagatccac atctagtgaa atgtcagtgt caaaatatta tagattatag 300
ctaaaatcca gattaatact catttggggt ttttatagt ggaacttcat agtaatacaa 360
aaagcagatt gtcttcctgt ctccgctgct cccacagtag gtattgaaac tggtaaaatc 420
agttttttga tagtgtgtgt atataagaaa aaatagatac acacattctt ttttctcagt 480
caacacattg attgaacact ctggcaaaga tgctgtggtg gatgangttg gagttcgaaa 540
agaagaagca agcgctggcc tgccttgaaa gaacccgaaa gtctttccca ttcacttctc 600
tagaaagctg ccaagacaga ngcagaaagg aaatggatga tagttctgtc aagcacactt 660
ctgntctcnt agaacttaga aatggttcta agagaacaga agttatngag aacagttcnt 720
gtggaattca acatcttggg tgggacncat tggcttt 757

<210> 3172
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3172
cnaatncttg ctcttgncct ntttcnaatn cttggcnact cgctttctnt gcggatccct 60
cnngannena tcgttcgaat tcggcacgag cacaaggaga agaaagttaa ttaacattga 120
aagatgagaa gacatcttgg aagacttgaa ttgggccttg gaagaagaac agccattcaa 180

atagatagaa ttgtggtagc aaaggcatac ngntcggaaa gtatagatct ccagggacag 240
tagtcatggg gttggggcac tgttggaatt taaggttgga aggatatatt ggagcccctt 300
gaatacggta acaaggcaca ccttgggcag tggagagtta tcagagtgtt tgaaaaggag 360
ggttattgag taaataaata gactggtact ttaggaattt taaaatgtgg atcattgtac 420
tactaataac tatntatttt atatttacta tctactaagt aatttacatg tattttcttg 480
tactgactgt aaaccttctg ggtgtgggtg ttttaagtgc cattttactg ataaagaaac 540
tgangcttaa atagntgaaa tanntcaccc tgttagtgag tggcacaatg acaagtcann 600
atcttanggt tgccnanntc caaaanncat ttaaanttnn agnatnattg annnttttnc 660
cttatggcnt nnnaaatttg gggagccatt attgaaatcc nttacnacnt angaattgnc 720
caaaaaaaat acttttgggg gaaaactgga tttattaatt atccaaaata atttnantgg 780
cttgnttggc ttntttccac tntnc 805

<210> 3173
<211> 886
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(886)
<223> n = A,T,C or G

<400> 3173
cggnnnnnnn gnagcccntt tggnaaangc ctctaaggga aangcctttt tgaaaacnan 60
angaaaacct ntgggaaaag nccncannna ttttngngaa annggcnnga gcnnanantn 120
ggacacngtt ntaannnnan nagngnnngt tttnnganan agggnnnnna gnggnannna 180
ngngnnggag ggaannaagg nanagnannn ggnagnnaag gnnnnaaaga agnagnnang 240
gaganggnnn gnggnggggc atgangnggg nncagaggca cgaggagccc aagaccatca 300
cngangagna ngagcagggn accnacatnn acnnggacna cgagaagngg ggccagcgga 360
agaaggaagg nagnacctng agnaccgnta ccaggaggan cgggaccnac agngacanag 420
gnccnnnncn anacggannn nanaaacgng aagcaggann nnnanggacc aagggaaggg 480
nncngnncnn ggaaaganng ggagggaggn ncgaaggcaa aggggggann cgnnannncc 540
aggaagnang gaaggggggn cgggaggnna annganaaga ngaaccnngg gggnncaggg 600
gggcgagggn agcanaannn nnccnnagnc aanngaaggg gananaagag ngggaaaann 660
aannagaaag agggaaaana agnnaaggaa anaaaagang ngnnaannng gganaaaana 720
nggnganann gnngganaaa ngngnannan aaaanngagg aggncanngg gnaaanaana 780
nggggagggn nganananag ngaannagac aaggaanagn gaannagngn anagnanngn 840
gnannaaagg nannggggna anaagnanna nannnnnagn gaagan 886

<210> 3174
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3174
gcttttnann nccctncttt cnaancctct tcaaatcctt ggntatcgtt ctntctgnng 60
gatcccatcg attcgaattc ggcacgagag acaaagaaaa aggtggcaat catagaagag 120
ttagtagtag gttatgaaac ctctctaaaa agctgccggt tatttaaccc caatgatgat 180
ggaaaggagg aaccaccaac cacattactt tgggtccnnt nctacttggc acaacattat 240
gacaaaattg gtcagccatc tattgctttg gagtacataa atactgctat tgaaagtaca 300
cctacattaa tagaactctt tctcgtgaaa gctaaaatct ataagcatgc tggaaatatt 360

aaagaagctg caaggtggat ggatgaggcc caggccttgg acacagcaga cagatttatc 420
aactccaaat gtgcaaaata catgctaaaa gccaacctga ttaaagaagc tgaagaaatg 480
tgctcaaagt ttacaaggga aggaacatca gcggtagaga atttgaatga aatgcagtgc 540
atgtggttcc aaacagaatg tgcccaggct tataaagcaa tgaataaatt tggtgaagca 600
cttaagaaat gtcatgagat tgagagacat tttataggaa atcactgatg accagtttga 660
ctttcataca tactggatga aggaagatta cccttagatc atatgtggac ttattnaaac 720
tatgaagatg tactttnaca gcatncattt tacttcaagg cagcaagaat tgcttttaga 780
c 781

<210> 3175
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3175
gntttnnatn cctctttcta atnncttggc tactcgntct ntctgnanga tcccatcgat 60
tcgaattcgg cacgagagat tatgagcatg tagaagatga aacttttcct cctttcccac 120
ctccagcctc tccagagaga caagatggtg aaggaactga gcctgatgaa gagtcaggaa 180
atggagcacc tgttcctgta cctcccgccg ccgaacagtt aaaagaaata tacccaagct 240
ggatgctcag agattaattt cagagagagg acttccagcc ttaaggcatg tatttgataa 300
ggcaaaattc aaaggtaaag gtcatgaggc tgaagacttg aagatgctaa tcagacacat 360
ggagcactgg gcacataggc tattccctaa actgcagttt gaggatttta ttgacagagt 420
tgaatacctg ggaagtaaaa aggaagttca nacctgttta aaacgaattc gacttgatct 480
ccctatttta catgaagatt tttgttagca ataatgatga agttgcggag aataatgaac 540
atgatgtcnc ttctactgaa ttagatccct ttctgacaaa cttatctgaa agtgagatgt 600
ttgcttcttg agttaagtag aagcctaaca gaaggagcca accacaaaga attgagagaa 660
atnaacaact gggccttngg aaagaaangc nggccaagct gcttgagtaa tagtcaganc 720
ctanggaaat gatntggtta atgaattcac cccaggncac acccngttga agagc 775

<210> 3176
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3176
tgnttctaat gctngctctc gttctttctg caggatccca tctattcgaa ttgatgagcc 60
ttattaacta tcttttcatt atgagacaaa ggttctgatt atgcctactg gttgaaattt 120
tttaatctag tcaagaagga aaatttgatg aggaaggaag gaatggatat cttcagaagg 180
gcttcgccta agctggaaca tggatagatt ccattctaac ataaagatct ttaagttcaa 240
atatagatga gttgactggt agatttggtg gtagttgctt tctcgggata taagaagcaa 300
aatcaactgc tacaagtaaa gaggggatgg ggaaggtgtt gcacatttaa agagagaaag 360
tgtgaaaaag cctaattgtg ggaatgcaca ggtttcacca gatcagatga tgtctggtta 420
ttctgtaaat tatagtttct tatcccagaa attactgcct tcaccatccc taatatcttc 480
taattggtat catataatga cccactcttt cttatgttat ccaaacagtt atgtggcatt 540
tagtaatggg aatgtacatg ggaatttccc actgacttac ctttctgtcc ttgggaagct 600
taaactctga atcttctcat ctgttnaaat gtgnattaaa gtatctacct aactgagtng 660

tgantgtant gaaagaaagg ncatatntta aacnttgaat ttancaagcc cacnctcgna 720
ttttatgncc tttcttttgc ctngggattg aanc 754

<210> 3177
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3177
tannnnttnc tntannnttt ctgangccct tntgcaggat cccatcgatt cgaattcggc 60
acgaggagat ctctgggatg tcagtgaggc tggttgaaga ccagaggtaa actgcagagg 120
tcaccacccc caccatgtcc caggtgatgt ccagcccact gctggcagga ggccatgctg 180
tcagcttggc gccttgtgat gagcccagga ggaccctgca cccagcaccc agccccagcc 240
tgccacccca gtgttcttac tacaccacgg aaggctgggg agcccaggcc ctgatggccc 300
ccgtgccctg catggggccc cctggccgac tccagcaagc cccacaggtg gaggccaaag 360
ccacctgctt cctgccgtcc cctggtgaga aggccttggg gaccccagag gaccttgact 420
cctacattga cttctcactg gagagcctca atcagatgat cctggaactg gaccccacct 480
tccaactgct tcccccangg actgggggct cccangctga nctggcccag agcaccatgt 540
caatgagaaa gaaggaggaa tctgaacctt gggtaaggat ttggggcaca gtaccaggaa 600
gggggcttgg tgccagacct tatgaggaag aaggattttc ctatgtacag agaangggac 660
cctgtnctgt tgggaagtgc ttgtgcaaac ctaaccaagt tactaacccc tctgntttct 720
gtgctacaca aaggggataa att 743

<210> 3178
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3178
gatgtttnnn annctggttc taatncttgg aaanctncnn ctttgttann ngcnntttct 60
gcaggatccc atcgattcga attcggcacg agcccagctg gacctggtgg ccctttccta 120
gtgcctctgc tgggggagga gaacctctgt ccacgtggag gctaggaggt ctcaggtgct 180
gccctggcag caccagagtg tgggccgggc ccgagtgtct gcccctcggc cctcagggtg 240
gggcacttag cacccagaag ggaccaaaag cagggcatgg cggtgcagag gagtttggga 300
ggtgtaaaca gccccatgca cgtggaggag gagctggctt tcagccccag accccacgct 360
agcactttcc acgctgcttg cccgctgttg atgtgcagtt cccagtgcct gtgtgagccg 420
acatctgctc agtcctatcc ctcgtcagcg tgtggagacc cagctcctgc aagcccttct 480
gcttccacgc ccccagacag cttggtggag ggtcctgcat ctgggccaag ctggggtgca 540
cccagccaaa gacaaagctg ccttcacgtg cccaaaggat tcaagatggt gcactggccc 600
cgggaggagt cttgaccaaa aatgggagcc cgctcttgtg gggaaanccc cgacttcccc 660
caccnanaaa ccgntcccac ggtgccggan cttccccctt ttcctttgtg ggggcaacaa 720
nattggcctt gggcnctttc aattnttncg gaagctttcc tgggtgtngg cttttgacct 780
taaaat 786

<210> 3179
<211> 765

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3179
gttgaantcc ttcctttcaa atngcttggc tactcgntct ntntgcagga tcccatcgat 60
tcgaattcgg cacgagccca catgtaccag gttgagtttg aagatggatc ccagatagca 120
atgaagagag aggacatcta cactttagat gaagagttac ccaagagagt gaaagctcga 180
ttttccacag cctctgacat gcgatttgaa gacacgtttt atggagcaga cattatccaa 240
ggggagagaa agagacaaag agtgctgagc tccaggttta agaatgaata tgtggccgac 300
cctgtatacc gcacttttt gaagagctct ttccagaaga agtgccagaa gagacagtag 360
tctgcataca tcgctgcagg ccacagagca gcttgggttg gaagagagaa gatgaaggga 420
catccttggg gctgtgccgt gagttttgct ggcatangtg acagggtgtg tctctgacag 480
tggtaaatcg ggtttccaga gtttggtcac caaaaataca aaatacaccc aatgaattgg 540
acgcagcaat ctgaaatcat ctctagtctt gctttccttg tgagcagttg tctttctatg 600
atccccaaag aagtttttct aaagtnaaaa ggaaaattcc tagtggaatt cancccccaa 660
gggaaaaaag cccacttgnc cacannagga agccnggntn ccccttngtt ccggcttaan 720
ggccccttgt tcaggaaacc acactggggg ancttntttt ttttn 765

<210> 3180
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3180
agttgaantn cttgctacnn aaaacctttg gcnactngct ctttntgnag gatcccatcg 60
attcgcaaag atggtcgtat tactaaaggt gaataaccag cgcggnnngc acgtggagtc 120
actggaacat ttgtgcaatg ctggtgggaa tgtcaacccg tgcggccctc tggaataagc 180
ctggcagctc ctccaagagt taccgngtga cccancaatt ccactcctag ctccacccac 240
aggaattgaa agcaaanacg caaacagatg cctgtncacc aaagttcacg gcagcatnct 300
tcgncatagt ggcagcatcc gtcgtcacag cggcatcatc cttcatcata gcggcagcat 360
ccgtcgtcac aagcggcagc atccttcgcc acagnggcan gcatctgtcg tcacancggn 420
agcatccttc gacaaagcgg cagcatnctt cgtnatagcn gcagcatcct ttgccatanc 480
cggcaaggtg gaaaccctgt ccatccactg aggcgtgcat agactaaaca tgggcagtcc 540
agcactggaa ttccaagccg tacaacggng nccacngtca aaaangaatg aggaccctga 600
ngcacctgng cnganaacaa gaacnngcga nnccaanact tttnagacat tattgcctta 660
agtngaaaaa cccagngcac caacgggaaa ccngaccgnc ntgnancccct gnttaacntt 720
nantnngttn cccgaaaatg ggggcacntt nccaaaaagg ggaataaaag gggagaattn 780
cct 783

<210> 3181
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(760)
<223> n = A,T,C or G

<400> 3181
gntttgaaat nccnttnntt caaatnctng gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagna atgcaaaggg ctgcagttct cattcaggct actttcagga 120
tgcacagaac atatattaca tttcagactt ggaaacatgc ttcaattcta attcagcaac 180
attatcgaac atatagagct gcaaaattgc aaagagaaaa ttatatcaga caatggcatt 240
ctgctgtggt tattcaggct gcatataaag gaatgaaagc aagacaactt ttaagggaaa 300
aacacaaagc ttctattgta atacaaggca cctacagaat gtataggcag tattgtttct 360
accaaaagct tcagtgggct acaaaaatca tacaagaaaa atatagagca aataaaaaga 420
aacagaaagt atttcaacac aatgaactta agaaagagac ttgtgttcag gcaggttttc 480
aggacatgaa cataaaaaaa cagattcagg aacagcacca ggctgccatt attattcaga 540
agcattgtaa agcctttaaa ataaggaagc attatctcca cattagagca acagtagttt 600
ctattcaaag aagatacaga aaactaactg cagtgcgtcc ccaacaagtt atttgtatac 660
agtcttatta cagangcttt aaagttccaa aaggatattc aaaaatatgc caccgggctt 720
gccacactta attcagncat tctatcnaat gccccagggc 760

<210> 3182
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3182
ggnnntnnna gnntttgaan tccctttnnt tctaatncta ggcttctngt tctttttgca 60
ggatcccatc gattcgctca gctgaggcaa ttaaactgga aaagaaatag attgaaaaga 120
tactacagaa gaagcagtac agaagttggg ggactgaagg agagggagcc actgcaggtg 180
ctagctgctt aaggggatac cagtcctttt acagatataa tagatacagc ttctgaggtg 240
gagggtgata ggagtgtgta gagaaattgc agttcagaac tggagcatgc agttaggcaa 300
gaggcatccc atgtgaagat gtcaagcaag tactggaaaa tgctgaacta aaactcaggg 360
atggatatgt agatttagag aacttcattg tagaggcagt cattgaaagc taaaagggct 420
gataataaaa ttgccaagga tggaaatagt aagagggagt cagtgttatt aggattagaa 480
ttctgttttg ttttttcttt aaacagattc tcgctctgtc accctggctg gagtgaagtg 540
gtgtgatctc ggctcactgc ggcctcgacc tcccaggctc aagttatcct cccaactctc 600
agccttccaa gtagctggga ccacagccat tcaaacacat gcctgcctta tgtttggatt 660
tttttgtana aaccaaggtt ttgccatgtt tnccaggctg gnctnngaac ttctgggctt 720
aagccattcc cccacccttg ggtctcccaa aatgctngcc attatangg 769

<210> 3183
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3183
tgnttttaat cnttctaatn cttggctctt gttctttttg caggatccct cgattcgaat 60
tcggcacgag gtccgaagaa aaagactgtg gtggcggaga tgctctctcc aatggcatca 120

agaaacacag aacaagtttg ccttctccta tgttttccag aaatgacttc agtatctgga 180
gcatcctcag aaaatgtatt ggaatggaac tatccaagat cacgatgcca gttatattta 240
atgagcctct gagcttccta cagcgcctaa ctgaatacat ggagcatact tacctcatcc 300
acaaggccag ttcactctct gatcctgtgg aaaggatgca gtgtgtagct gcgtttgctg 360
tatctgctgt tgcttctcag tgggaacgga ctggaaaacc tttcaaccca ctgctgggag 420
agacttatga attagtgcga gatgaccttg gatttagact catctccgaa caggtcagcc 480
atcacccacc aatcagtgca tttcatgctg aaggattaaa caatgacttc atctttcatg 540
gctctatcta tcccaaactg aaattctggg ggaagagtgt agaacagaac ccaaaggaac 600
catcaccttg gagctncttg aacacaatga ggcatataca tggacaaatc cacctgctgt 660
gtgcataata tcattgnggg taaactgtgg atcgaacagt ntggcaatgt ggaaattnta 720
accncagact ggggacaaat ntgtgttg 748

<210> 3184
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3184
ntgctttcna atctttntaa atgcctttgg cttctcgntc tttctgcagg atcccatcga 60
ttcgaattcg gcacgagaaa aagtaaagct tttcatgagc acaaatncct tgcattgttt 120
gatgttactg atattcgtaa aatgaatatt ttttgttttg ttttgtttta tttttttgag 180
acaagtcttg ctttgttgcc caggctggag tgcaatggca tgatcttggc tcactgcaac 240
ccctgccttg cgagttcaag tgattcttct gcctcagcct cctgagtagc tgggattaca 300
ggcgctcacc accacaccca gctaatttct gtatttttag tagacacagg gttttaccat 360
gttggccagg ctggtctcaa actcctgacc tcaaactcct cacacctgta atctcagcac 420
tttgggaggc tgaggtggaa ggatcacttg aagccagagt ttgagaccag cctgtgcaac 480
acagcaagac cccgtctcta caaaaactta aaaaattagc tggctgtggt gttgctcacc 540
catagttcca gctactcggg aagctgagca ntaagatcac ttgagcccan gaggccnatg 600
cttncantga actgtgattg tttccantac agnccacctg ggtgacanag taaanaaaan 660
gaaacattac ataatttggc tagagcataa taaattgatt tctgggttnt gaaattnnag 720
ttgccataaa aggnntttna atgngcnant tcant 755

<210> 3185
<211> 1009
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1009)
<223> n = A,T,C or G

<400> 3185
agcntttttt ngaanttccc ctttnnttna aaaatcccct tttttggcaa aaaattnccc 60
ccntntntna nngtttttnn gatncccaca tncngnaatn tncgggcncg ggnnactgnc 120
nannggcncc cttcgggggn ccngtgntaa gncnatnctt gtntntanaa agntggnnnt 180
nttttncgat ngngactatt gncnacnctc ttccntnttg gcagngngtc tgganggttg 240
nggtngctca tntggntaan ccnatcctgg ngaccaanng gccgnggtgn gcntgcaagc 300
tttgnccacn tgggaaancc gnnagtggtn gtctcanttg cntgntgggn ncntgncccc 360
atcttgnctg ctgnancctt ggggagcagg nnctnggtng tggtnctgcc tgcttgctgc 420
tngttccccg ggcatgcgtn nncannaagg gncatgcntn gggcaanaag gtgcgtggnc 480

ancgtnngna tnnnnaggac caccntgggt cgngaatcnn tgggttncct gataggaacc 540
ntnaannnct gcngntttta ttaaatggga nnananggggt ncanttcaaa gccagtnnaa 600
tgcccttatg gaanggngtg natnacatan cnnnntatgt gtcntanann angaaatcgt 660
tnnncaaatt tnnacaanaa tntttntaan aaagggtatt tnantntngg tgaaanaaca 720
angntttaaa gtnaaatgnt tntancanaa ttaantaaac nggtnttnat gattncttac 780
naaantaacn atncnnaagc atttacngct tanangtccn cnngatactn ncanaatatg 840
gnnnnaattn tannanatng cgataatctn gnananactn tcatnnnnna tngtgtaatc 900
antanntacn tgatttnnnt naaatgaaaa catntgatnc aagattaatn cattanntat 960
acnaaaatnt tcanatanta natntacata taatggtttc naataaacn 1009

<210> 3186
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(840)
<223> n = A,T,C or G

<400> 3186
cggatnncgt nagganngat ngtagnancn tcgctcnccc tntgagnaag ggngngcgaa 60
ntcggcacga ggacccaggt agaccagctc annagnnntt tttctttgtc atcctcctgt 120
gagctctctg naagtctctt tcttgcccat caccacatcc ctagtactgg gtatcagtct 180
ggccacttgg ctttctggtt tgccccaatg tggnctattc ttgatgcagc taccaaagta 240
atgttttaaa accatnatac caagttacta tccttgcaaa acccccagta actgccaatc 300
tcacttagaa taaaatccgg actcctgtga agcacacata actgggccac tgnctatgca 360
gcaacctcat ctttaccgtt tcctgccttg ctcactccct ttcaagcgcc gntattcttc 420
ctgatgccct agtacacaac aactcctttct gcttcaaaga gtangaaaat tactggnctc 480
tctgccagtg agantccnct tctggnatta cccttgctnc aattgctgaa acttctncaa 540
atatcaacct tctaaaaaag agccctttta aaaacaccct tttctaatat ggcccctact 600
caaatttcca agtcccctgg naattgggcc caatttcccc caactttcaa taagcaacct 660
taaatgggct aatcctggaa aattnacccc cctaaaaang gngcaancct ttnaatggaa 720
nngggtaagg gccaaanttn aattnggncc tntngngnna cctggggnaa anggncccta 780
ggaaggaaac ccaagccaan cttggggctt caaaaaannt anggggcaac cttcnaaana 840

<210> 3187
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 3187
gcgntnntat tagcgtgggc tcgntctcgc tcnacncanc nngngctggn cgaattcggt 60
acgagaatca gaggaggctt cttcatcctt caactccatg atgaactcct atatgaagtg 120
gcagaagaag atgttgttca ggtagctcag attgtcaaga atgaaatgga aagtgctgta 180
aaactgtctg tgaaattgaa agtgaaagtg aaaataggcg ccagctgggg agagctaaag 240
gactttgatg tgtaactgtg ctgttgatga agtcctccca gggaagcctg tgcagatgca 300
gtcacctgga aagaacagag attccctttc acctacctca gcaaaacaaa ctttcaagtc 360
ttgatagact tagcctagta attttatagt gagagtttca aactatatat caagtgtcta 420
tagcatcaaa aacttctggg ggcgtggggg aaagtagaat accaagtata atagttacat 480
tcactttcaa agagcatcta tgaatttgcc ttttgtaact tactgtggct ttaaacatat 540

tcagaacaga tgcttgaaat atgcacttag cactttggtt ccacatctgt ctgggtaaac 600
catgaagaaa atgaagctgc tgcctcaatc gancccagac agcagccata ggcagataaa 660
gatttnggtt caccttggt ggtgggaggc atcgtgtgtg ccttttttc ctctaatatc 720
aattttacag tccgggaan 739

<210> 3188
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3188
gnnngncgtt cnaattncgn ggnntctttc tngccnanna nnannngcgt gngngaattc 60
ggcacgagac tgttcatcct aagttccact ataaacaggc tcatgactcg ggcacagaca 120
cttcttgcgt gacttttttcc tatgatggta atgtccttgc ctctcgtgga ggtgacgatt 180
cattaaaatt atgggacatc cgacaattta ataaaccact tttttcagcc tcgggtcttc 240
ccaccatgtt cccaatgact gactgctgtt tcagtccaga tgataagctc atagtcactg 300
gtacatctat tcaaagagga tgtggcagcg gcaaacttgt tttctttgag cgtaggactt 360
tccaaagggt gtatgaaata gacatcacag atgcgagtgt tgttcgctgc ctgtggcatc 420
caaagctgaa ccagatcatg gttggaactg gaaatggatt ggctaaagtc tattacgacc 480
ccaacaagag tcagagggga gcaaaattat gtgtggttaa aacccancgg aaggcaaaac 540
aagctgagac tctactcagg actacatcat caccctcat gccttgccta tgttcccgtg 600
agccccgnca acggagtaca aaggaaacag ctggagaagg acagactgga tccctgaagt 660
cgcattaacc tgaacctcct gtancangcc cangtcgtgg tggccgattt ggaacccacg 720
ggggcactnt tttttcct 738

<210> 3189
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3189
tggggnntnn nttctaatgc tgggatgttc taaangntgg gctactcgtt ctttccgcag 60
gancccntcg attcgaattc ggcacgagga aaggtggcgc gcttctcacg gctgagttgc 120
tgcgcctgca gacggaagct ccccacaggc agagctgctt ggatgtgtga gtcatgaagc 180
cagagaagcc ccgctccatg agcagtgact ccccaggccc tgtgacctcc ctcctgtctt 240
gcagctcctc ctggcaccag tccccagggc tctcctgttg gtagttcctg cttttcttct 300
tggaaattcc tcgtggacct cgagatcttt accctaaaat agttctgttg aatttcaccc 360
tggcaatgta aattgatagc ttatcttcac agatgccaga caatggacaa ctcaccatca 420
gtcctctgct cacctgagac aaatgcatgt ctgattgctt cctctgccct attgnttatg 480
tgaaaatgca gattcactga gccagactaa ggcatcagtg actgttcctc tactgcctct 540
cacatggaga ttgtgtattc agtgaaaggc tgatcaaaga ccccaaagga atgcaccagt 600
ttatctctta tctacctatg acctgcgagc tgnccaccac ccccagttgt tgcgcctttc 660
cagacagaac cagtgtcatc ttacacgtat taattggatg tcctgngnct tccttaatat 720
gtatcaaaac aagctngcct tgaacacctt gggcacn 757

<210> 3190

<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3190
gnngnnnnnn tttctaatgc ttgggnnnnn ngtcnatgcn taagagccan gcggntcgaa 60
ttcggcacga ggcgggcccg gccagcggaa gcccctgcgc ccgcgccatg tcaaagaaaa 120
aaaggactga gtgcagaaga aaagagaact cgcntgatgg aaatattttc tgaaacaaaa 180
gatgtatttc anttaaaaga cttggagaag attgctccca aagagaaagg ctttactgct 240
atgtcagtaa aagaagtcct tcaaagctta gttgatgatg gtatggttga ctgtgagagg 300
atcggaactt ctaattatta ttgggctttt ccaagtaaag ctcttcatgc aaggaaacat 360
aagttggagg ttctggaatc tcagttgtct gagggaagtc aaaagcatgc aagcctacag 420
aaaagcattg agaaagctaa aattggccga tgttgaaacg gaagagcgac caggcttagc 480
aaaagacttt cttcacttcg agaccaaang ggaacagcta aaggcagaag tagaaaaaat 540
ncaaagactg tgatcccgca agttgtngga agaaatcgcc aagcaaatna agtagcccaa 600
ggaactgctt acagatggac tgattacata ttcgcaataa aatcttnggc ccaaagaaaa 660
atttngggtt tgaaggaaaa ttaaattggt tngaaccttt tggaatttcc cgaaagactt 720
ttgcctncnt ngacttaaaa tatttccatg gnggtgaaag gttgtccaan ctt 773

<210> 3191
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3191
gnangnnngn ttcntagtgc ccgtgggagt cttagatncc ctaaaaaatt gntaatgctn 60
ggtcggcacg agtcaaggcc tacgaaacag gtgatgcact accccggcta cggttccccc 120
atgcctggca gctnggccat gggcccggtc acgaacaaaa cgggcctgga cgcctcgccc 180
ntggccgcag atacctccta ctaccagggg gtgtactccc ggcccattat gaactcctct 240
taagaagacg acggcttcag gcccggctaa ctttggcacc ccggatcgag gacaagtgag 300
agagcaagtg ggggtcgaga ctttggggag acggtgttgc agagacgcaa gggagaagaa 360
atccataaca cccccacccc aacaccccca agacagcaat cttcttcacc cgcttgcaac 420
ccgttccgtc ccaaacagag ggccacacag ataccccacg ttctatataa ggaggaaacc 480
gggaaaagaa tataaagtta aaaaaaaagc ctccggtttc cactactgng tagacttcct 540
gcttcttcaa cacctgcaga ttctgatttt tttgttgttg gttgttctct ccattgctgn 600
tggtgcangg aagtcttact taaaaaaaaa aaaattttgn gagtgactcg gtgtaaaacc 660
atgttanttt taacagaacc nanaagggtt gncctattgg ttaaaaaaaa aaaaaaaaaa 720
aaacttngng cctttagaac tattanngag nccnatttac nttaatccan nct 773

<210> 3192
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(754)
<223> n = A,T,C or G

<400> 3192
ttggantctt ctcngaaacn cttngcnatt gcnctntctg naggatccca tcgattcgaa 60
ttcggcacga ggttcttcaa agccaaccaa gacaggcttn tnagttttag agcttcagaa 120
caaattgcca aaagccagag ttgtttatgc tagtgcaact ggtgcttctg aaccacgcaa 180
catggcctat atgaaccgtc ttggcatatg gggtgagggt actccattta gagaattcag 240
tgattttatt caagcagtag aacggagagg agttggtgcc atggaaatag ttgctatgga 300
tatgaagctt agaggaatgt acattgctcg acaactgagc tttactggag tgaccttcaa 360
aattgaggaa gttcttcttt ctcagagcta cgttaaaatg tataacaaag ctgtcaagct 420
gtgggtcatt gccagagagc ggtttcagca agctgcagat ctgattgatg ctgagcaacg 480
aatgaagaag tccatgtggg gtcagttctg gtctgctnac cagaggttct tcaaatctta 540
tgcatagcaa tccaaagtta aaagggtttg tgccactagc tcgagaggaa atcaangaat 600
ggaaaaatgt gttgtaattg gtctgcantc tacaaggaga agctangaac atttagaaag 660
ctttggaaag aaggccggng ggagaaattg aatgattttt ggtttcaact nccaaaaggt 720
gtgttgcnct cccttctttg aaaaaacatt ttct 754

<210> 3193
<211> 856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(856)
<223> n = A,T,C or G

<400> 3193
tggtgccngt tcctattccg tgctntcgtn ctncnccagg ancnangcgt ntcgaattcg 60
gcacgaggaa ggaggaccta ggcacacaca tatggtggcc acacccagga gggtagtggg 120
gagttagatt tcagagtcca ggccctaggt tgggacccac tccaaataat ctcctcggtg 180
tgggtggtgg ttctatagag ggataaatga ataataaaca ttgttaaaat atacgaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaan aaaaaaaana aaaaaaaaaa anaanaaaaa 300
aaaananaaa aatnaaaaan annanaaaaa aaaaaaaaaa aanncccctn cnccctaaaa 360
nattcngggg ggnttttttcc tccannccnn ntnttaata nnctnctttnt tgnntcttng 420
nctcaccnnt tcttttggtn ggcnntaana naaaatnttn nttttttttn ggntanaaat 480
ncnntnncng ttttttntnn ttttttttcn aaaccctcct nttntanctc ncgtntcnaa 540
aaanntnttt ntccncnncn nttnnntnnt nctntttcta tttttnnttc ttntncaann 600
ttccnangtg nnnngngtnt nntgnggctt gtttnttttt ncnncctngc gtcatccnnc 660
caataatttc ttnncncccc nanncennat tttttntnnc ctctatntnn gnngngnnat 720
atnantcccc tttattnttn atnantagtc ntntnttttn ttntccntng tnatannatt 780
ttntntcccn ntntaanttc ctcannnnat ttnntnnncn ncgngntata tttnangnta 840
nntcnncggg gttnct 856

<210> 3194
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3194

gtntngnnng nngttnnatt atatggntcg nctnnctcna nnancnangc ttgngctgac 60
aacttgattg ggttctcctt caggtttgaa gcgccctcna gaagtgtcta aaggagacag 120
ttgatagcca aacaacagtt ttggattcac tgactgatta tgaaagaagc agtagactgg 180
tatcaagaat cagtcagcaa ggaggccctc accagacgcc agtgccatgt tcttggactt 240
ctcagcctcc atattcatga actaagtttt tggaatcctt aggcttccac gtgtggaaag 300
cctgagctaa cctactggag gatgagccat cacctggagc agattcaggc catcctagtt 360
gaagcctccc taggccaagc aaccgtccaa ctaccagaca ttgaccattc agccttgaac 420
attcagcaca aagacaaaac agaccagacc agaagagtcc cacagaatag gggaaactat 480
tcagagaaaa cttaagccac taagttttat ggtgttttgt tcttgtagcc agaagcatag 540
gcatactggc caatacaaac cgaaatcctt ctaacgtant ggacccttt caggccagca 600
ttttttccct tgaaaacctg ggagccttgt attccatctt attagcagaa gatcactttc 660
accaatggtt tgggctcttg atttggaatt gatgatgtaa tgagcctnta ttcnanatgn 720
gacttaatac ctctgcgaat tgactggatt ccn 753

<210> 3195
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(840)
<223> n = A,T,C or G

<400> 3195
cggatnncgt nagganngat ngtagnancn tcgctcnccc tntgagnaag ggngngcgaa 60
ntcggcacga ggacccaggt agaccagctc annagnnntt tttctttgtc atcctcctgt 120
gagctctctg naagtctctt tcttgcccat caccacatcc ctagtactgg gtatcagtct 180
ggccacttgg ctttctggtt tgccccaatg tggnctattc ttgatgcagc taccaaagta 240
atgttttaaa accatnatac caagttacta tccttgcaaa acccccagta actgccaatc 300
tcacttagaa taaaatccgg actcctgtga agcacacata actgggccac tgnctatgca 360
gcaacctcat ctttaccgtt tcctgccttg ctcactccct ttcaagcgcc gntattcttc 420
ctgatgccct agtacacaac aactccttct gcttcaaaga gtangaaaat tactggnctc 480
tctgccagtg agantccnct tctggnatta cccttgctnc aattgctgaa acttctncaa 540
atatcaacct tctaaaaaag agccctttta aaaacaccct tttctaatat ggcccctact 600
caaatttcca agtcccctgg naattgggcc caatttcccc caactttcaa taagcaacct 660
taaatgggct aatcctggaa aattnacccc cctaaaaang gngcaancct ttnaatggaa 720
nngggtaagg gccaaanttn aattnggncc tntngngnna cctggggnaa anggncccta 780
ggaaggaaac ccaagccaan cttggggctt caaaaaannt anggggcaac cttcnaaana 840

<210> 3196
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(840)
<223> n = A,T,C or G

<400> 3196
cggatnncgt nagganngat ngtagnancn tcgctcnccc tntgagnaag ggngngcgaa 60
ntcggcacga ggacccaggt agaccagctc annagnnntt tttctttgtc atcctcctgt 120
gagctctctg naagtctctt tcttgcccat caccacatcc ctagtactgg gtatcagtct 180
ggccacttgg ctttctggtt tgccccaatg tggnctattc ttgatgcagc taccaaagta 240
atgttttaaa accatnatac caagttacta tccttgcaaa acccccagta actgccaatc 300

tcacttagaa taaaatccgg actcctgtga agcacacata actgggccac tgnctatgca 360
gcaacctcat ctttaccgtt tcctgccttg ctcactccct ttcaagcgcc gntattcttc 420
ctgatgccct agtacacaac aactccttct gcttcaaaga gtangaaaat tactggnctc 480
tctgccagtg agantccnct tctggnatta cccttgctnc aattgctgaa acttctncaa 540
atatcaacct tctaaaaaag agccctttta aaaacaccct tttctaatat ggcccctact 600
caaatttcca agtcccctgg naattgggcc caatttcccc caactttcaa taagcaacct 660
taaatgggct aatcctggaa aattnacccc cctaaaaang gngcaancct ttnaatggaa 720
nngggtaagg gccaaanttn aattnggncc tntngngnna cctggggnaa anggncccta 780
ggaaggaaac ccaagccaan cttggggctt caaaaaannt anggggcaac cttcnaaana 840

<210> 3197
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 3197
atccngttct ntannnngtc tngttctttc tncacgatcn nntgcgattc gaattcggca 60
cgaggggtcc tggtgggagt tccatccagc agtgagtgca ttttttcccc agagcagtta 120
agggtcttat taaaagccac cactttgctg aggcctgtac aggccttggg ggtttgggga 180
agagaantaa ggcaggcact tgtcccttca gggagggact tgtccntact gggaggtttg 240
gggttgacct tggctccagc agagataccc agcctggcnt ggaagggcag gtcttgagct 300
tacgcttgac tgcaagggca agctgcaggc ctcttctgcc ttcccctgca ttcaccaagg 360
acaagtagga ccaagaagtc aagggaaaag tgccaagata gatctattcc catttctttc 420
ttccacctgg agaattcctg agctatgctt caaacctctt ttgggccagg gaaagactgg 480
gggacatttt ttagtcaagg atgctttaag aaagtaaatt cctgcttggg ggcccaggcc 540
ttctttttca agggcttgct tgtgaatgcc caaccaaaaa aaaggggccc ccaaggccca 600
atcccttact tcctnggtcc ccccaaaaag ggatnccaan ttggggaatt gggaaaactt 660
gggcanncac ccnaanccca ctttggtagg anttnaccaa cccaaccaac ccaaaaccan 720
cccacccaaa ttnaaaaaaa ggccaaaacc accaaccaac cnaaacccnn annnnnnnnn 780
nannnnnnnn nnnaaaaaaa ctttgangcc ttttaaaaac tntttngngn ggn 833

<210> 3198
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 3198
gtnnnnttca atgcttggct ctttccnacg naggatccca tcgattcgcc aggctagtct 60
tgaactcctg gcctcaagca atcctcccac ctcggcctcc caaagtgctg ggattaaagg 120
cgtgagccac cgtacctggc ccttggtgga atctttaggg ttttctattc atacatataa 180
aatcatatca ttggcaaaca gagataattt tacttnctcc tttccaattt ggatgcctta 240
gatttctttt ccttgcctaa ctgctctgtc tagaactccc agcactatgc tgaatagagt 300
ggcaagagca ggcatttgcc ttgttcctaa ccttagagaa aaatccttca gccttttacc 360
attgaggatg atgtttgctg ttagtttttc ataaatgatc tatatcaggc tgaataaatt 420
tctatttcta aaaaaaaaaa ntnctttnnct ttanaaaaaa tgctaaaaaa aaaaaactcg 480
agcctttaaa actatagnga gtcgnnttac gtaaatccag acntgataag atncattgat 540

gagtttggca aaccacactn naatgcagtg aaaaaaatgc tttatttgng aaatttggga 600
tgctattgct taatttgnaa ccctttaag ctgnaataaa caagttaaca acaccaatgg 660
attcatttat ngttcangtt caggggggagg tntngnaggg tttttaattc cgggccnnng 720
gnccaaanca ttt 733

<210> 3199
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(870)
<223> n = A,T,C or G

<400> 3199
nagttaanag taggtcttgt cttttgcaag atcntancga ttcgaattcg gcacgagtat 60
ataacaactt ttgctttcaa agttgggtgg gactagancn cncantggaa ggntggagtc 120
agganacctg gattnttgng cccgntntgg nttttacagt ntgcctaant ttntgcagtn 180
acttcntgcc ancctgtttc nttacntnca anagggaaag acantccttg gccagcctag 240
ttttnagggt gaacgaaagg tcnttntcac tgcntcctct agtcatttgc ttcttcgnta 300
attaacacat cttgagcacc tgcnatgttc caggaacagg agatggcanc gtgcaagata 360
aagtccctga cttctagaga ctgcatgtta gtggcaatcg gcgtntaccc ggccttnaat 420
aaactactga atgaaggaaa attctaccta caccagacac aattactggg gtttctaaaa 480
tggaattatt cccccggccc cntgcatcca gcagcctgnt gcagggaaac tcctccnaaa 540
ggcttgtaag gcaaggaanc cgggacaatg gcntggctat ttaagcttnc aacaagatgg 600
ttacccctaa gtnnctaatt ccctaacacc aaggggccc tttaccagga aaccaaaacc 660
aggttaaaaa acccaaagt tgggnaaaaa gccatttgcc anccggggcc nttttaaaaa 720
aaacctttna aaaacctttc ccttttaaaa ctttaccttc aagntaaaan tttaagggga 780
atgggnccaa nttttttaac cancccaaa aaaaanttng gnaatttttt ttcccnaaat 840
tttttnaant tccccaaatt tnggaaaang 870

<210> 3200
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 3200
nagtttaann gtatgtcttg tcttttccaa gatcctatcc gattcgaatt cggca 240
agtgtcagtt ttcctaatct cagtccaggt aggatttaaa aantntctca agt 300
ctntccaagc ntgttggggt ggaagggaat tggtgcccag aaaatgggac t 360
aatatctttt cttttgagag tnccccccagt taatttntnc tgtgcttnat 420
ctttattgtg aatgttgtaa cattttaaaa atgttttgcc ntagctttt 480
gttaaaggag ccagtggtct ctctgggtgg gtnctataat gagttat 540
ttgtgtggga ccacatcact tgttaataac acaaccttta aagta 600
gggttccttc atgttgccac tccttttttaa nggacaaact cag 660
tngtnattta caaaatctan cagactgtgg gtatccatat t 720
tgttcttggt aactaaactc aaatatgtct ttctcatata 733
atgtcaaagt tctcctgtta aaaaaaaaaa aaaaaaaa
gagtcgtnta cntagatccn gacatgataa gatcatc
aagcagtgaa aaa

<210> 3201
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3201
gatgccggtt cctatgatgn gctctcggct tcctaggagt tccaanactn ggctngcncg 60
aggncttnta aatatatctn ggntttanta ggtgataagt nctgtcantt agtancatct 120
gaaaaancag ctttgtcctg ggtgaaaaag gatgccaaaa ttgcctggaa aagagcagtg 180
anaggagtcc gggagatgtg tgatgcntgt gaagcancat tgtttancat tcactgggtc 240
tgccaaaaat gtggatttgt ggtctgctta gattgttnca aggcaaagga aaggaagagt 300
tctagagata aagaactata tgcttggatg aagtgtgtga agggacagcc tcatgatcac 360
aaacntttaa tgccaaccca aattatacct ggttctgttt tgacagatct tctagatgcc 420
atgcacactc ttagggaaaa atatggtatt aaatcccatt gncattgtct aacaaacaga 480
atttacaagt tggaaatttt cctncatgaa tggtgtatct caagtttaca gaatgtctta 540
atcacagtat aaaattctct gngcatgcct gagtctcagc gccaaaatcc tcctccgaag 600
tctgagaaaa atggtggcag cnnccccana aagtgatgtt nggcnccaga ttaccaggtt 660
aacttcctcc agaatnccag tcaccactgn actggntagc anatcttgcc gagccaaaaa 720
gcccnaagng ggaaaaaaaa aaaaaaaa 748

<210> 3202
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3202
ggnnnnngnn ngntnncgtt ccctattant caggngctcg ntctntctcn annnancnng 60
gcgtgtncga attcggcacg aggattttcg aaactcttca gctacttgcc ctttttatc 120
tgaaaccatc ataccttctg aaagaaaaaa gcatatcttc attgacataa cagaagtgag 180
atggcccagt cttgatacag atggtccatg atatatatgg agagtggcat tgtgaagata 240
acatctttag atggtcatgc atacctctgc ctgcccagat ctcagcatga atttacagta 300
catttttgt gtaaagttag ccagaagtca gactcatctg cagtgttgtc agaaacaaat 360
aataaagccc caaaagataa actagttgaa aaaactggca aaatctgtat acgtggaaat 420
ttaccaggac agagactgaa gaataaagaa aatgagtttc attgccagat catgaaatcc 480
aaagaaactt taaagaagat gagttgtgta aatggaactg aagggagggg aagaactgcc 540
ttcgcctggt acaaagcaca catgtgtata cacatgggtc aagcagtgct ggtctgtggc 600
tgnctgtcca gangaatgga aatatccttg gctttagcac ttcattttca taataaaatc 660
agcaattntg tctaaaaaaa aaaannnana aaaaactnga gcctntanaa ctntagtgag 720
tcgtattacg tagatncnna catgataa 748

<210> 3203
<211> 780
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3203
ctaaatgctt tggganagnn ncccctttga ancctntnaa atcctttggc aanttgcnct 60
cnctgtngga tcccatcgat tcgaattcgg cacgagagac agggagaaga gaggaagagg 120
gagctgcagg tgccagaaga gaacagggcg gactctcagg acgaaaagag tcaaaccttt 180
ttgggaaaat cagaggaagt aactggaaag caagaagnca nggtctaaag gagaaagggg 240
tcccagtcag cgggcaggag gcgaaagagc cagagagttg ggatgggggc aggctggggg 300
cagtgggaag agcgaggagc agggaagagg agaatgagca tcatgggcct tcaatgcccg 360
ctctgatagc ccctgaggac tctcctcact gtgacctgtt tccaggtgcc tcatatctcg 420
tgactcagat tcccgggact cagacagagt ccagggctga ggaactgtcc cccgcagctc 480
tgtctccctt gctagagccc atcagatgct ctcaccagcc catttctcta cngggctcct 540
ttttgactga ggagtcacct gacaaggaaa aacttctatc agtactttga tatgtcacag 600
tttcatgttt atccagttca atgtattttt aaatttttcc ttgagacttc tttgactgat 660
agattattgt gaagtgtgtt tttaaaattt ncaaatgttt aagggatttt catatctttc 720
ttaatgctga tttccaattt ggattcccta caatgattct gggattcatc tgctctggac 780

<210> 3204
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 3204
tcttttaatg ctttttncaa gccttgtttn aaatcctttg caggatccca tcgattcgaa 60
ttcggcacga gactaccccg gctacggttc ccccatgcct ggcagcttgg ccatgggccc 120
ggtcacgaac aaaacgggcc tggacgcctc gcccctggcc gcagatacct cctactacca 180
gggggtgtac tcccggccca ttatgaactc ctcttaagaa gacgacggct tcaggcccgg 240
ctaactctgg caccccggat cgaggacaag tgagagagca agtgggggtc gagactttgg 300
ggagacggtg ttgcaagaga cgcaagggag aagaaatcat aacaccccca cccnaacacc 360
nncaagacag cagtcttctt cacccgctgc agccgttncg ttccaaacag agggccacac 420
agaatacccc acgtttttat ataaggagga aaaccggnaa aanaatttaa aagttaaaaa 480
aatanccttt cngttttaca ctactgntgt agactcctgn tttcttcaan cacctgnaga 540
ttcttgattt ttttgttgtt gatgntctct ccattgcttg tngtttgcnt gggaantttt 600
atttaaaaaa aaaaaaaatt cttgtgagtn gactttggnt tttaaaccan tgntagattt 660
taacngnacc cttaatgggt tgtacntata tgntttnaaa acatgnnaan aaatatttaa 720
tgtaaaggnn ctgttnntaa atntaaccac ntanagaant tnnaaannnn ttnancccct 780
tagaacnatt nntgng 796

<210> 3205
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3205

ttttaatacn tttttnaatn cttgcttncg ntcctttgca ggatcccatc gattcgaatt 60
cggcacgaga gcaattccac tcctagctcc acccacaggt aattgaaagc aaagacgcaa 120
acagatgcct gtgcaccaaa gttcacggca gcatccttcg ccatagtggc agcatccgtc 180
gtcacagcgg natcatcctt catcatagcg gcagcatccg tcgtcacagc ggcagcatcc 240
ttcgccacag cggcagcatc tgtcgtcaca gnggcagcat ccttcgccaa agcggcagca 300
tccttcgtca tagcggcagc atcctttgcc atagcggcaa ggtggaaacc ctgtccatcc 360
actgaggcgt gcatagacta aacatggcca gtccaggcac tggaatccag gccgtanaac 420
ggngcccacn gtcaaaagga atgagaccct gatgcactgg gcgacacaga cgggcgacac 480
agacttggag acatcatgct aagtgaaaag ccaggcacac ggagcggacg gggtgatcct 540
gctcacgtga tgtgtcccga atgggcacnt tcagagggga agaanggaga tggcgcttga 600
cngtgnccgg gacnggggtt gggagcgacc ggttgttggt ttngggtttc tttctngggt 660
gaaggaaatg tttttgatat tggggccgtt tgggtgatnt ttgcattacc ctttgaatat 720
gcttanaacc cnctagaaat tgnnacactt tttaaatngn ttggaaatt 769

<210> 3206
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3206
tgttctaata ctaggtntac tcgccttttg caggatctna tcgattcnaa ttcggcacga 60
ggggtcctgg tgggagtnnc atncagcagn ganngcattc tttccncaca ncagtnaacg 120
gtcttattaa nagccaccac tttnctgang cctgtacagg ccttgnnggt tnggngaaca 180
gaaatnncgc aggcacttgt accttcaagn anggacttgt gcctnactgn nagggttggc 240
gttgaccttg gctcnacnga catacccant ctgacttnna acgngcncgt ctnagcttac 300
gctagactgc acnnccaagn ttgcangcct nttntgnctt ccctgcattn accaatgaca 360
gtacgaccaa cagtcaanga aaagtgccaa gatatatcta tcccatttct tctacacctg 420
tanattcctn actatgctca aactatgtgg ngcaangaan actggnngac atttttagtc 480
aatgatgctg acaattaatt actggtgngg ccaggcatat nttcacggct gcttgtgatg 540
ccaacnaaga acgggcccca gcccatcctt actcctngnc cccaaanaga tccagtgnga 600
atgggaagct gnnannacca acccaactnn tgatttacca ccaacnccaa anatcacgca 660
tgnnnacagc aaaacaacaa cncnatgcac ttaacaagna nccnaaaant naactcgngc 720
ctctaaaact attngggant cctttanct 749

<210> 3207
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 3207
gnatgncccg atttccttaa tgatggggnn nnnnngagcg anncttccga aanttccaat 60
annctgggng ntcgcaactc nctcnanaca gnaaggncgn gggctttgct ctctccattc 120
caagttgntc tctgttctag aaagcagatg tagtagacat ctactgttgt tgcctgaaca 180
gaatcccttt gtccttttt tgntaaaagt actcatccct aatattcatt gtnctggaag 240
gactgaaaat acagaactca caccatgatc ggccgggaca atcagattat ttcattccnc 300
agcaaacgga gatcganccg aaaagtggaa anatgagcnc ttctttggng ttggcatatg 360

gaccctgaga gaaagaactn tnattntttc tcttggactg caataaagta tagctgccta 420
aaatacgntt cctgacactt ggaggnttgt ccacaatcgg ngaaataaag gcgagaccgn 480
acactggatg aaaaaaanaa gnnnccngnn gaanacccac tnnnccannn nccnnnccnn 540
tncnccanng nnganccnnn tanccgnnan naggccnnng cnntngcnnc nnngccnnnn 600
nnnnnnnggn aaacccnnnn gnnnnncnnn nnnnnnnncn nnnnannnnn nnncnncnng 660
nnggnnctnn nnnnannnnc cccnncnncc cnncnccnnn nggnaannce nnnnnnnann 720
annnngggnn nnnncnannn ccnnnnnnnn cannncnncn cnnnnnggnn nnnnncnnnn 780
nnnnnnnnnn ncnngngnnn acnnnngngn nnnnccnnnn nnnnnncngg nnnnncnnnn 840
nnnncccc 848

<210> 3208
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3208
tgggnnngnn ccnaangcng gggannnggt ccccgttcca anactggaan ncttggcann 60
cgaactcgct cnannagnaa ggccgggnga attcggcacg aggccccgct ccatgagcag 120
tgactcccca gctcctcctg gcaccagtcc ccagggctct cctgttggta gttcctgctt 180
ttcttcttgg aaattcctcg tggacctcga gatctttacc ctaaaatagt tctgttgaat 240
ttcaccctgg caatgtaaat tgatagctta tcttcacaga tgccagacaa tggacaactc 300
accatcagtc ctctgctcac ctgagacaaa tgcatgtctg attgcttcct ctgccctatt 360
ggntatgtga aaatgcagat tcactgagcc agactaaggc atcagtgact ggtcctctac 420
ctgcctctca catggagatt gggtattcag tgaaaggctg atcaaagacc caaaggaatg 480
caacagttta tctcttatct acctatgacc tgcganctgc caccaccccc agntggngcg 540
cctttccaga cagaaccagt gtacatctta cacgtattaa atngatgtcc cnggggctcc 600
cnaanangna tcaaacaagc ngggcctcga ccaccttggg cacatatccc nanggacatc 660
annctggagg ctngngncac tggcattggc cctnaccctn ggcaaaataa accttctaaa 720
attggnaaaa aanaaanaan aaaaacctng nnccctntna naacnntacg 770

<210> 3209
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 3209
gtgatctttn tgagtggggg ccntnctngc tctannanat aggttnggng ggctagcgat 60
ttctacctgc gctactacgt agggcacaag ggcaagtttg ggcacgagtt tctggagttc 120
gaatttcggc ccggacggaa agcttagata tgccaacaac agcaattaca aaaatgatgt 180
gatgatcaga aaagagctta tgtgcacaag agtgtaatgg aagaactgaa gagaattatt 240
gatgacagtg aaattacaaa agaagatgat gctttgtggc ctcccctgat agggttggcc 300
gacaggagct tgaaattgta attggagatg agcacatatc ttttaccaca tcaaaaatag 360
gttctcttat tgatgtaaat caagtcaaag gatcctgaag gccttcgagt attttactat 420
ttggtacaag acttgaaatg tttagttttc agtcttattg gattacactt caagattaaa 480
ccaatttaaa ttgtatgttt tcaagctggt tgnatattta attaaaggga tgggaagggg 540
ttatttgtca tttacagtat tggggtttta tgaatgtgaa gcaaccaaaa aaaattnnaa 600

tgtaaaactg gaaaatagga aaattcatta ncagcttaat gggtatcctt acttgatncn 660
ctgggtttgg aagtccccac acacattaaa tctgtaatga aancnctttt ggttaaaatt 720
tctctat 727

<210> 3210
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3210
gnngctancc tttcctatta nnttgganct ntnttctntc tncangtanc nnntgcgntg 60
ncgaattcgg cacgaggatt ttcgaaactc ttcagctact tgccctttt tatctgaaac 120
catcatacct tctgaaagaa aaaagcatat cttcattgac ataacagaag tgagatggcc 180
cagtcttgat acagatggta ccatgatata tatggagagt ggcattgtga agataacatc 240
tttagatggt catgcatacc tctgcctgcc cagatctcag catgaattta cagtacattt 300
tttgtgtaaa gttagccaga agtcagactc atctgcagtg ttgcagaaca aataataaag 360
ccccaaaaga taaactagtt gaaaaaactg gcaaaatctg tatacgtgga aatttaccag 420
gacagagact gaagaataaa gaaaatgagt ttcattgcca gatcatgaaa tccaaagaaa 480
ctttaaagaa gatgagttgt gtaaatggaa ctgaagggag ggaagagctg ccttcgcctg 540
gtacaaagca cacatgtgta tacacatggg tcaagcagtg ctggtctgtg gctgcctgtc 600
cagangaatg gaaatatcct ttgnctttag cacttcattt tcataataaa atcagcaatt 660
tgtctaaaaa aaaananana aaaaaaactc gagccctnta naactntngt gaggccnant 720
tacgttgaat ccagacntga ttat 744

<210> 3211
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3211
gtntngnnng nngttnnatt atatggntcg nctnnctcna nnancnangc ttgngctgac 60
aacttgattg ggttctcctt caggtttgaa gcgccctcna gaagtgtcta aaggagacag 120
ttgatagcca aacaacagtt ttggattcac tgactgatta tgaaagaagc agtagactgg 180
tatcaagaat cagtcagcaa ggaggccctc accagacgcc agtgccatgt tcttggactt 240
ctcagcctcc atattcatga actaagtttt tggaatcctt aggcttccac gtgtggaaag 300
cctgagctaa cctactggag gatgagccat cacctggagc agattcaggc catcctagtt 360
gaagcctccc taggccaagc aaccgtccaa ctaccagaca ttgaccattc agccttgaac 420
attcagcaca aagacaaaac agaccagacc agaagagtcc cacagaatag gggaaactat 480
tcagagaaaa cttaagccac taagttttat ggtgttttgt tcttgtagcc agaagcatag 540
gcatactggc caatacaaac cgaaatcctt ctaacgtant ggacccttt caggccagca 600
ttttttccct tgaaaacctg ggagccttgt attccatctt attagcagaa gatcactttc 660
accaatggtt tgggctcttg atttggaatt gatgatgtaa tgagcctnta ttcnanatgn 720
gacttaatac ctctgcgaat tgactggatt ccn 753

<210> 3212
<211> 763

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3212
ngggtgnnnn nntttctaat nctggggnnc nntnnncnnn ntttcctaat ncttaggngc 60
tcgttctttc tccangcagn nnngcgtttc gcgacagctc tccaatactc aggttaatgc 120
tgaaaaatca tccaagacag ttattgcaag agtttaattt ttgaaaactg gctactgctc 180
tgtgtttaca gacgtgtgca gttgtaggca tgtagctaca ggacattttt aagggcccag 240
gatcgttttt tcccagggca agcagaagag aaaatgttgt atatgtcttt tacccggcac 300
attccccttg cctaaataca agggctggag tctgcacggg acctattaga gtattttcca 360
caatgatgat gatttcagca gggatgacgt catcatcaca ttcagggcta ttttttcccc 420
cacaaaccca agggcagggg ccactcttag ctaaatccct ccccgtgact gcaatagaac 480
cctctgggga gctcangaag gggtgtgctg agttctataa tataagctgc catatatttt 540
gtagacaagt atggctcctc cgtatctcct cttcctagga gaggagtgtg aacaaggagc 600
ttagataaga caccccttaa acccattccc ttttccagga gacctaccct tcacaggcac 660
aggtccccaa atgagaagtc tgctacctca tttctcatct ttttactaaa ctcaaangca 720
ntgacagcag tcagggacag acattcattt cttnatacct tcc 763

<210> 3213
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 3213
gnagnncggn ttcttatgat cgtggctnct cntctanngg ttgtgtaatg ctnggtcnnc 60
angannnnnt gcganncgaa ttcggcacga agggggttc ccaatagtag aaaagggtcc 120
ccattcctgc tcagcaccgc acctctctac ccccccacag acacacatgc agacacacac 180
atgcagacaa cacgcagaca cacacatgca ggcactcaca tgcaggccca tgcacacaca 240
cgtgcacaca catgcagaga catgcagaca cgcaggcaca catgcacaca tgcaaagaca 300
cgcatgcagg cacacgcaga cgcacacaga gacacacatg cagatcacat gcacacacac 360
atacacacac tggcccctgt ttttctgtgg tgtcactggg tgccagcaac tcggtatctn 420
ccaccttcca ctaaaacctg ggccttaatt tctctcccgt ccccaccct aaattcctga 480
tggatgaacc tagagctgtc ctgtccactc caggccggac tgacgtancc tatgggccca 540
gcaggtccag ggcccacgtt ttaatttctt tttnaaaagc tttaggtctt ggccnggccg 600
ccggtggttc acgccttggg agttcccagc atttttnggg aaggccnaag gccgggttgg 660
attcacaaag gtcaagcaag tttcaaggaa ccaagccttg aaccaggcca ttgggtgagg 720
aaccctgggc ttnttactng ggnaaattcc caaaaaaaaa ttggccttgg gccnaagggt 780
gggcaagggc acccttgttg gggtccccaa antttacct 819

<210> 3214
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(819)
<223> n = A,T,C or G

<400> 3214
gnagnncggn ttcttatgat cgtggctnct cntctanngg ttgtgtaatg ctnggtcnnc 60
angannnnnt gcganncgaa ttcggcacga agggggttc ccaatagtag aaaagggtcc 120
ccattcctgc tcagcaccgc acctctctac ccccccacag acacacatgc agacacacac 180
atgcagacaa cacgcagaca cacacatgca ggcactcaca tgcaggccca tgcacacaca 240
cgtgcacaca catgcagaga catgcagaca cgcaggcaca catgcacaca tgcaaagaca 300
cgcatgcagg cacacgcaga cgcacacaga gacacacatg cagatcacat gcacacacac 360
atacacacac tggcccctgt ttttctgtgg tgtcactggg tgccagcaac tcggtatctn 420
ccaccttcca ctaaaacctg ggccttaatt tctctcccgt ccccacccct aaattcctga 480
tggatgaacc tagagctgtc ctgtccactc caggccggac tgacgtancc tatgggccca 540
gcaggtccag ggcccacgtt ttaatttctt tttnaaaagc tttaggtctt ggccnggccg 600
ccggtggttc acgccttggg agttcccagc atttttnggg aaggccnaag gccgggttgg 660
attcacaaag gtcaagcaag tttcaaggaa ccaagccttg aaccaggcca ttgggtgagg 720
aaccctgggc ttnttactng ggnaaattcc caaaaaaaaa ttggccttgg gccnaagggt 780
gggcaagggc acccttgttg gggtccccaa antttacct 819

<210> 3215
<211> 844
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(844)
<223> n = A,T,C or G

<400> 3215
nggnnnttnn nnnnnatncc ntgatcgtgt ntcgttcttt ctncaggatn nnntcgtttc 60
gaattcggca cgaggaaaag ggagccgcgc agngcctacg ggagtncggc ggcagcagcc 120
ggtaccggca accacgggca gctctcaggg aatctccgtc gttgaggcca naggctccag 180
tccccgcgag tccagatgcc tgtccagcct ccaagcaaag acacagaaga gatggaagca 240
gagggtgatt ctgctgctga gatgaatggg gaggaggaag agagtgagga ggagcgganc 300
ggcagccaga cagagtcaga agaggagagc tccgagatgg atgatgagga ctatgagcga 360
cgccgcancn agtgtttcag tnagatgctg gacctggaga agcagttctc ggaagctaaa 420
nggagaagtt gttcaaggga acgacttgan tcanctgccg gnttgcggct tggaaggaaa 480
ntgggggggc ttgaanaaga agcccctgga atnccaccgg aagccccctt ttgggggggg 540
gccttgcaaa ccgggaancc ctttnaaagg aatttcngcc antttcaang gttgggccaa 600
ggggaatcnt accnaagggg ccttctnggc cttggnatgg tgaatccang gnaaattaag 660
gtncccaatt gntgaancct tccaanggga ancccaaacc agcacccttg naanaagttg 720
agaaaacttg cttgcntctt ntgacacccc tncnaggggg aacttcaagg aaccggttcc 780
tnaggcttgg aaggaggacc cccananccc tggancctaa attnttaaat gggtnggacc 840
accn 844

<210> 3216
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3216
gtntngnnng nngttnnatt atatggntcg nctnnctcna nnancnangc ttgngctgac 60
aacttgattg ggttctcctt caggtttgaa gcgccctcna gaagtgtcta aaggagacag 120
ttgatagcca aacaacagtt ttggattcac tgactgatta tgaaagaagc agtagactgg 180
tatcaagaat cagtcagcaa ggaggccctc accagacgcc agtgccatgt tcttggactt 240
ctcagcctcc atattcatga actaagtttt tggaatcctt aggcttccac gtgtggaaag 300
cctgagctaa cctactggag gatgagccat cacctggagc agattcaggc catcctagtt 360
gaagcctccc taggccaagc aaccgtccaa ctaccagaca ttgaccattc agccttgaac 420
attcagcaca aagacaaaac agaccagacc agaagagtcc cacagaatag gggaaactat 480
tcagagaaaa cttaagccac taagttttat ggtgttttgt tcttgtagcc agaagcatag 540
gcatactggc caatacaaac cgaaatcctt ctaacgtant ggacccttt caggccagca 600
ttttttccct tgaaaacctg ggagccttgt attccatctt attagcagaa gatcactttc 660
accaatggtt tgggctcttg atttggaatt gatgatgtaa tgagcctnta ttcnanatgn 720
gacttaatac ctctgcgaat tgactggatt ccn 753

<210> 3217
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3217
ttggantctt ctcngaaacn cttngcnatt gcnctntctg naggatccca tcgattcgaa 60
ttcggcacga ggttcttcaa agccaaccaa gacaggcttn tnagttttag agcttcagaa 120
caaattgcca aaagccagag ttgtttatgc tagtgcaact ggtgcttctg aaccacgcaa 180
catggcctat atgaaccgtc ttggcatatg gggtgagggt actccattta gagaattcag 240
tgattttatt caagcagtag aacggagagg agttggtgcc atggaaatag ttgctatgga 300
tatgaagctt agaggaatgt acattgctcg acaactgagc tttactggag tgaccttcaa 360
aattgaggaa gttcttcttt ctcagagcta cgttaaaatg tataacaaag ctgtcaagct 420
gtgggtcatt gccagagagc ggtttcagca agctgcagat ctgattgatg ctgagcaacg 480
aatgaagaag tccatgtggg gtcagttctg gtctgctnac cagaggttct tcaaatctta 540
tgcatagcaa tccaaagtta aaagggtttg tgccactagc tcgagaggaa atcaangaat 600
ggaaaaatgt gttgtaattg gtctgcantc tacaaggaga agctangaac atttagaaag 660
ctttggaaag aaggccggng ggagaaattg aatgattttt ggtttcaact nccaaaaggt 720
gtgttgcnct cccttctttg aaaaaacatt ttct 754

<210> 3218
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3218
tggtgccggt tcttantctg ngctctcgtc ttccttctta tacctgggca ncncttggcg 60
gccccnaggn tcccangnag ccnngcngng ncngattcgg cacgagattc caaaggtttc 120
aaagaacttg gtcataaata tgataatgag aagacaaagt atttatatta aaacagttta 180
gtagccttca gttttgtgaa aatagttttc agcacagaaa ctgacttctt tagacaaagt 240
tttaaccaat gatggtgttt gcttctagga tatacacttt aaaagaactc actgtcccag 300

tggtggtcat tgatggcctt tagtaaattg gagctgctta atcatattga tatctaattt 360
cttttaacca caatgaattg tccttaatta ccaacagtga agcactacag gaggcaactg 420
tggcattgct tccttaacca gctcatggtg tgtgaatgtt ataaaattgt cactcagata 480
tatttttaa atgtaatgtt atataagatg atcatgtgat gtgtccaaac tatggtgaaa 540
agtgccagtg gtagtaactg tgtaaagttt ctaattcaca acnttaattc ctttaaaatn 600
cacanccttc tgcctctgna tttggaagtt gtcagtncaa ctcatcaaag aaaactgcct 660
aatntnaaaa tcatattntg ggaataattt ccctcttttg tagtctgccc aagatcctta 720
aagattggat ttttattact atttaaacca gtggattaat n 761

<210> 3219
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 3219
caaaanccct tttgnaannn nccnnagnnn tttnatnncc tnnttgcaaa tngcttggct 60
actcgttctt tctgcaggat cccatcgatt cggaattata gtattgacgt gaatcccact 120
gtggtataga ttccataata tgcttgaata ttatgatata gccatttaat aacattgatt 180
tcattctgtt taatgaattt ggaaatatgc actgaaagaa atgcggccca tttagaatag 240
ctcgtgttat ggaaaaaagt gcactgaatt tattagacaa acttacgaat gcttaacttc 300
tttacacagc ataggtgaaa atcatatttg ggctattgta tactatgaac aatttgtaaa 360
tgtcttaatt tgatgtaaat aactctgaaa caagagaaaa ggtttttaac ttagagtagc 420
cctaaaatat ggatgtgctt atataatcgc ttagttttgg aactgtatct gagtaacaga 480
ggacagctgt ttttaaccct cttctgcaag tttgttgacc tacatgggct aatatggata 540
ctaaaaatac tacattgatc taagaagaaa ctagccttgt ggagtatata gatgcttttc 600
attatacaca ccaaaaatcc ctganggaca ttttnangca tgaatattaa acatttttta 660
tttcaagtaa ccttttcccc ctgtgtaaag ttactatggg ttggtggnac naactttcat 720
tctatagnat attaagtggg aaagtngggt gaaattctac nttttatggt tnggagtggg 780
cccaatgtct atcaaggagt gnacaaatta ann 813

<210> 3220
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3220
taatgctggt tactgccctt caaatccttg caatcccttg gnaancggnc cngcngaccc 60
atcgattcga attcggcacg aggttatatt aaattattct ttgntnttct ttgtctttta 120
ataaagcctg caagttacta aattgnagtt ncataaattc tgtagtnaag tatcatcttg 180
gcagngtgcc aaaggtgaaa angntgcttn ctctaacaga gaaattctta gngactccag 240
tcgtanaaaa acgtctttac aacctgaata agatnganga attgngaaca taccatggcc 300
tattggatga atcatttgcc ggnggctana ncagactgta gggtttgtga tggatntatg 360
gagtatgtgg gtatagaaat catgaatntn ccatttgnnn ncagagattc aagcntanac 420
ttaatgggta gatcataaat gacagaatga attcaaaacc tagcacgtgc attgtaaatg 480
tgtgcccaga tatgtnttgg aaatggcagn tccttggggt catgtntcta ctggcaaaat 540
ttgctatagn gnnactattg nantgtaatt ataaaattna tcannattat ncaccgattn 600

gccaagtaaa ctgtactgtn cataggaatt ttgggaattg tgcanaaatt ggatcaattg 660
aanttnagaa cngatgtctg ggcttaaaaa tttatcnggg accacnnatt angaaactna 720
catntttcgg ngctgaggtt cattgnccaa ggccangaag gtntttnccg aaaanc 776

<210> 3221
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3221
ctgctgtcaa ggcttgaaga gccggcacac tcaatggcaa acacangcac cgagtctgct 60
ctgaatcctg gaggatctgg ccctcctctc aacccccact cacagtcacc gtcttacaac 120
tcagggccac ctgggatcag tcatcagtca gggtgcgtaa gccttgaata ccaggtagcc 180
tcaggagtga aaagataaat gtcctagatc attaccttat tcagtgtccc caccttgcag 240
cgcattccaa ccacctggga gcatttaaaa ctccagatgc ccacaccaca ccctggggcc 300
acccatcaga ccttctggaa gcaagacctg ggcctccatg gccccaaaaa ctccctaggt 360
gatccgatgt gcagccaaat ctgagaggcc ccatttnaaa aaganagaac atgggtggta 420
cattgaggag tatttacatt ttataaaatg acttaaaaat ttnaaggcat tttttgagca 480
tttncaatta tatggaagna gttactttta cggaatagtt nttgctcatg gaactcanaa 540
cagatgaagc accactgtta cagaattaat gtgctccaga atgaaaatgg tctcgtttct 600
ngtgaatttc aatggaagaa gcncnacatt tcctnaagaa ttcttttgag cccagtaatt 660
cantcctggc tcaaaaaaan gntnnttngg cattttccta acatctggac caaag 715

<210> 3222
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3222
ctgctgtcaa ggcttgaaga gccggcacac tcaatggcaa acacangcac cgagtctgct 60
ctgaatcctg gaggatctgg ccctcctctc aacccccact cacagtcacc gtcttacaac 120
tcagggccac ctgggatcag tcatcagtca gggtgcgtaa gccttgaata ccaggtagcc 180
tcaggagtga aaagataaat gtcctagatc attaccttat tcagtgtccc caccttgcag 240
cgcattccaa ccacctggga gcatttaaaa ctccagatgc ccacaccaca ccctggggcc 300
acccatcaga ccttctggaa gcaagacctg ggcctccatg gccccaaaaa ctccctaggt 360
gatccgatgt gcagccaaat ctgagaggcc ccatttnaaa aaganagaac atgggtggta 420
cattgaggag tatttacatt ttataaaatg acttaaaaat ttnaaggcat tttttgagca 480
tttncaatta tatggaagna gttactttta cggaatagtt nttgctcatg gaactcanaa 540
cagatgaagc accactgtta cagaattaat gtgctccaga atgaaaatgg tctcgtttct 600
ngtgaatttc aatggaagaa gcncnacatt tcctnaagaa ttcttttgag cccagtaatt 660
cantcctggc tcaaaaaaan gntnnttngg cattttccta acatctggac caaag 715

<210> 3223
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3223
ttgtgaancc cttttganac ccntttgcta cttgctcttt ttgntggatc ccatcgattc 60
gaacgttccc ccgctacata gtctttcttt tgtgttattt agtttaccat ttctttttc 120
catcttgtta taacctccac gagttgtgtc tcttttgttt tctacattat acccaacggc 180
tagcacataa caggcaccca atatatactg aacgaactaa ggaatgaatg aaggaatgaa 240
tgaataggtg gcttatagga aacccctggg gccagggact ctgcaacatc accatgtaac 300
tttttctttg tgctgagaag cagagagaaa caatagaaga tatctcttaa tctctcaagg 360
atgctactcc caggactgct tgcaatttcc gaggagataa gccacaagtt acagaaagga 420
agcagctgtg tagggcctgc aagtttcctg ctgcaagtca ccctatgttc agaagttacc 480
ctggctgggc caggcatggt ggctcacgcc tgtaatccca cactctgggg aggctgangc 540
aagtggattg cttgagtcca ggagttttga gaccagcctg ggcaacatgg agaaacccca 600
tctatcaaaa aaattanctg ggtgtggtgg catgaagcct gtaataccca gcttccttgg 660
gnaaggctta angtgggnag aaatnaccct gancccang ggggtcaaag gctgntnntt 720
aagccaagat cacngccnac tggaccttna agccctnggg caaacccnna attnagancc 780
ctntct 786

<210> 3224
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3224
ggatctttta tncctttgna atcccctnnc tttggcnaat cgcccgaatt cggcacgaga 60
gttggagaac attatgctgg agagagnttt tnaagaaagg gagatgttgg aaacttcnca 120
agctgctgct ctgtttctgc ccaaccgcat ggtgcctgga cctgactaca attcctacaa 180
aagtgcctac agccccagcc cagtggaacc accaagcaag gacttctgta attnttgcc 240
cacctgcctt gatttaacca tgcagtattc agggtctggg aatatggaac taatttcttc 300
taatgtcagc gtggccacaa cttatagaca gtatcccttg tcctcaagat ttttaagttt 360
ggcccaagtg tggccccatt agcgacaccc tcctctacca gcaatgcctg ctaaatgcca 420
ccacctcagt tcaagccctg aagcctgggg ccagctggga cttgaaggga gcacgagtcc 480
aggatggact cagtgcatag caggacatga tgccatnnaa attggaaggt tccctggtgc 540
tgcctcacac ttcctgagat ccagaccacn agaaagtgac cttcanggtc atcangctgt 600
cccagagagg tccgcgttnt tccnaccccg accgggaatt tctcttccca ttgttgacac 660
cngacttccn tggcancttc aaaggggcat tntcttaacc gaagattcan nnaaanctaa 720
acaccanngc acccctttgg cnacttaanc cattaaatcc aattccncn 769

<210> 3225
<211> 915
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(915)
<223> n = A,T,C or G

<400> 3225
gnggaggggn gggaagnggg gngcagnnnn ncnaaaacnn nngcacanca ancncnnang 60
aacncnnnca gnncncnncg nanacancaa ngngnaaccc tttcaaancg cttggcaaat 120
cgcncncgct gnaggaccca cganncgcac ccagccnnct cctccaacgc cctnnngatc 180
caagatngag taagagacat nggcagatgc ngagaaggnc aacccaatng tnnnaacttg 240
cagaccgagg gggagatggg ntncagtctg cacatgactc gagcacagnc cccccacccc 300
acccngactt anaaaatcca aaccgactac aagaccagaa acaaaccaca tgccagtcgc 360
ccccttgact gtacacacat gnggagnnca gagccaccca tngagagagg ctgctcagct 420
cagcaccctg ngcanggctt cctagaacta ncncagancg ggggannccn tancccgtat 480
tcngggnagc tgacnacagg atgcacgnag tgaaacccan gggttagggg agaggaccca 540
ccctggnaaa aagccacgta aaatggnacn ancnntccan ggcanccang gnccnactac 600
antcncnagc acctccgngn cncaanccgn antcnngaga aanngnntan nncncangag 660
nnncccggan nncngnaatg gccagnnaag ctgnnncccn cnggaacnag nnaacgnnnn 720
ggcntatcca nngtcgacnc ctnccnggnc gccanctccc aaangncncg aacgaggcnn 780
ngncagaana nctctgttaa aagaacaccg ancaggcnaa ggccnccact tganannnct 840
cnaggnancc gggnnggaga aanctnanaa ngantatnan actnggnaac nnnnanagcc 900
tctaaaaaaa aaccg 915

<210> 3226
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3226
agnntnnttn nnnntataaa ncctntggaa ctncctcttt nngttgatcc catcgantcg 60
aattcggcac gaggcaaggt tgtgacattg tcacttttct gttctagact cttttaaatt 120
ttctgcattt gcctgaaaag caccccctgta agaatagatt tctcatggct ctaaaaatta 180
ttcccaagaa tnccntactt ggttcaaaag cagactgttt ctcttcattt catctcaaat 240
cagacttctg ggcaagatgt tctttagagt aagcaaacct acaacctaaa aatctcttca 300
agaggcatct ctggtcttgt gacaagacct cttcaaaaac ccacagtaaa actcccctcc 360
ctccagttgg ccaccagtct gccaccaaac atgaacaaat tctgctgcta atcggtttcc 420
cttgtgatct ggttcctgag gtcttcggat ctgtgcaatg aattatttat tgntttatta 480
aaccgacagt ggtgtcccag agaggaacca taaataaaat ggaaatctgg tgctgtgata 540
aagtaataac tagcattaat gagacctggt tttcctttca gaaagtccag tatacctgta 600
acaaaggtta aagcaattta tatttaattt gcattctgat gttaacattt aaacagcaat 660
tctnacaaaa aatgcatcga gtctaattct tacctctatc aaaaaacaac tgnntaaatt 720
tatgaccaac atttaaacna aaaccaaaat ggaaaatttt ctttttnnn 769

<210> 3227
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3227
atcnatccnt ttctttatag cttngttnct ngttctntct gcaggatccc atcgattcgt 60
tagtgtactg gatgtcaggt ccctcaaaga ttccttggac cattttcatg tgaatgaaga 120

agaaatcaat tgtctttcat tgaatcaaac ggaaaacctg ctggcttctg ctgacgactc 180
tggggcaatc aaaatcctag acttggaaaa caagaaagtt atcagatcct tgaagagaca 240
ttccaatatc tgctcctcag tggcttttcg gcctcagagg cctcagagcc tggtgtcatg 300
tggactggat atgcaggtga tgctgtggag tcttcaaaaa gcccgaccac tctggattac 360
aaatttacag gaggatgaaa cagaagaaat ggaaggccca cagtcacctg gtcagctctt 420
aaaccctgcc ctagcccatt ctatctctgt ggcttcgtgt ggtaatattt ttagttgtgg 480
tgcacaagat ggtaaggttc gaatctttcg ggtgatggga gttaagtgtg aacaggaact 540
gggatttaag ggccacactt cangggtatc ccaagtctgc tttctnccag aatcctattt 600
gctgcttact gganggaatg atgggaagat cacgttgtgg gatgcaaaca gtgaaanttg 660
agaaaaaaac cagaagaagt nccacaaaaa ccgtaccccn caggaaggaa aaccctaaaa 720
ananggaacc ttgcacccna nccngggntn ggaaaatacc taaccentttt nntnacct 778

<210> 3228
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 3228
caaaanccct tttgnaannn nccnnagnnn tttnatnncc tnnttgcaaa tngcttggct 60
actcgttctt tctgcaggat cccatcgatt cggaattata gtattgacgt gaatcccact 120
gtggtataga ttccataata tgcttgaata ttatgatata gccatttaat aacattgatt 180
tcattctgtt taatgaattt ggaaatatgc actgaaagaa atgcggccca tttagaatag 240
ctcgtgttat ggaaaaaagt gcactgaatt tattagacaa acttacgaat gcttaacttc 300
tttacacagc ataggtgaaa atcatatttg ggctattgta tactatgaac aatttgtaaa 360
tgtcttaatt tgatgtaaat aactctgaaa caagagaaaa ggtttttaac ttagagtagc 420
cctaaaatat ggatgtgctt atataatcgc ttagttttgg aactgtatct gagtaacaga 480
ggacagctgt ttttaaccct cttctgcaag tttgttgacc tacatgggct aatatggata 540
ctaaaaatac tacattgatc taagaagaaa ctagccttgt ggagtatata gatgcttttc 600
attatacaca ccaaaaatcc ctganggaca ttttnangca tgaatattaa acatttttta 660
tttcaagtaa ccttttcccc ctgtgtaaag ttactatggg ttggtggnac naactttcat 720
tctatagnat attaagtggg aaagtngggt gaaattctac nttttatggt tnggagtggg 780
cccaatgtct atcaaggagt gnacaaatta ann 813

<210> 3229
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 3229
gnnnnnnntt nnnnntttgc aaatnccttn gnaaannncc nagnnntttn anncnttntt 60
tcnaatnctn ggctactngt tctttttgca ggatcccatc gattcgaatt cggcacgaga 120
gnaatcaata tcttgaaaat ggccatactg cccaaagtaa tttgtaggtt cagtgctata 180
cccatcaaac tatcattgac tttcttcaca gaattagaaa aaactacttt aaatttcatn 240
tggaaccnaa aaaagagccc atatagccaa gacaatccta agcaaaaaga acaaattttg 300
aggcatcatg ctacctgact tcaaaatata ctacaaggct acagtaatga aaacagcatg 360
gtactggtac caaaagagat atatagacca atgaaacaga acagaggcct cagaaataat 420

gccatacatc tacaccatct gatctttgac aaacctgaca aaaggaatgg ggaaaggatt 480
ccctatttaa taaatggtgt tgggaaaact ggctagcctt atgcaggaaa ctgaaactgg 540
acccctttcct tacactttat acaaaaatta actcgattca ttaaagactt aaaagtaagt 600
tctcaatgta taaaaaccct ggatgaaaac ctaggcagtc cattcaggac atagcatggg 660
caaatacttc atgactaaaa cacccaaagc aatgtcaacc aaaagccaaa attgacaaat 720
gggatctaac ctaaactaaa aaacttggtg tgcagtttta ttttgggant gtgtgtgggg 780
gtacctctga gttttcaaaa aatgaagaaa gtaagtcc 818

<210> 3230
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3230
gnttgaannc ccttngnntt caaatngatt gttactngcc ttntgcagga tccctcgatt 60
cgaattcggc acgaggatag cttaaagcaa gtttacaagt aattaaaatg gacagtttgc 120
cattaaagat ttttaatagt ggttttgcag tgtactggct tgaatttttct ggacttgagt 180
taactgaagg agagcctcaa acnntagtaa cttcattttt aaaagttact agaatttggt 240
atcctgattt atattgcagt gtttcaaagg tgtcactgtc agacaaatag aaacactgcc 300
aacttggtgt aacttaagct ttcatttaac taaaacattc ttttcttgca aaacttattt 360
ttcatgatca tttttggtta tttattatac ttgattccaa aatagtacag ccttgaatct 420
ataaaactgt gcagtcatta tgccagaaat tatcttaaat atataatggg tcaccttgct 480
gttcaaaggg tggtgcaagg tcctgcagca tcttacatct gtagcttgtt agaaatgtaa 540
actctcaggc cccacaactt acttcctgca ttttaacaag atccccaagg gatatgtatg 600
ctcataaaaa attttgagac actggtttaa atggaaaatg gatataaggn atgtataact 660
ggggggtggg gtgagggtag gaaggcattt accaactnag attttattta tttttgaaat 720
taatcaattg gnttaaatcc taatttattt acccaaatag gggtctttta aaaaaatatt 780
ttttattcc 789

<210> 3231
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3231
gnttgaannc ccttngnntt caaatngatt gttactngcc ttntgcagga tccctcgatt 60
cgaattcggc acgaggatag cttaaagcaa gtttacaagt aattaaaatg gacagtttgc 120
cattaaagat ttttaatagt ggttttgcag tgtactggct tgaatttttct ggacttgagt 180
taactgaagg agagcctcaa acnntagtaa cttcattttt aaaagttact agaatttggt 240
atcctgattt atattgcagt gtttcaaagg tgtcactgtc agacaaatag aaacactgcc 300
aacttggtgt aacttaagct ttcatttaac taaaacattc ttttcttgca aaacttattt 360
ttcatgatca tttttggtta tttattatac ttgattccaa aatagtacag ccttgaatct 420
ataaaactgt gcagtcatta tgccagaaat tatcttaaat atataatggg tcaccttgct 480
gttcaaaggg tggtgcaagg tcctgcagca tcttacatct gtagcttgtt agaaatgtaa 540
actctcaggc cccacaactt acttcctgca ttttaacaag atccccaagg gatatgtatg 600
ctcataaaaa attttgagac actggtttaa atggaaaatg gatataaggn atgtataact 660

gggggtggg gtgagggtag gaaggcattt accaactnag attttattta tttttgaaat 720
taatcaattg gnttaaatcc taatttattt acccaaatag gggtctttta aaaaaatatt 780
ttttattcc 789

<210> 3232
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3232
ggnnttnaan nngctctact gaatgccttt ggaaaggccc ccatcgtttc gaatncggca 60
cgagctttag ttcagataaa ggaaacatcc aaaaatactg agattagtaa aattttattc 120
aaagtaggtt ccngctttgt cttgatctca atccattcta actcctgatg tcatttaccg 180
tgtgagatct tanncacaat catgaaaaga atatgagcat ttatcaaaac tctctgacat 240
ctgtatgttt agaaatgaac ttacacagca aaatatgatt tccttgcact tatttaattt 300
ttctaacttc aatttctacc tatgtgtctc tgccagtttg acctgattca gacacccaga 360
acttgaataa agaagccctc ttctattttc attcttaatg aatatacctt ttcccatgtc 420
cacattgagc ctcccttctg ngtactctgt ctaatgcagc cacatgtcta gttccccctc 480
tctgtcacca ccctcacttc ttctttccca tcttcttact tctttggtgt gacctcttgt 540
aggacaacat gccatttctg attccccaca cacataccct atcattgata cctaccctca 600
ggattagatt ctgtctaagt aatttgtaga gccatcaggc ttnantaagt attgggactg 660
caagtcaaca cccattatct catcaaaang ggatgctgtg ttggggccag anggagaaan 720
gagagagaga gactnanaga gagangnccn ganagagagn aagacn 766

<210> 3233
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

<400> 3233
gaanccctg gntttgangc catttttaat nccttggnnt gnncctcga ttcgnnccgg 60
cncnaggctc ngtacagatg nntcttatcc tgacntnacg aangncttaa ctgncnnntn 120
tatggtgacn gtnnntgagg cngnatgncn nggancanan nctnaanctg aaaggnacct 180
agtgacgann gctncgnnnt ccctntgcaa actggatacg gtannggaan agggagcctc 240
tgtgataaac gagacgagga ggaactcncn gacatatgag ctcaccacca cactaaaggn 300
actgtgcatg nctgctgacn gggttcnata gcgctcaang accagnatng acnnggacga 360
tgagttaatg ggnactaggg cncaantgtg cgatcanaga annttcncna agctcngcnc 420
atccttggan aacnntttgc tttanaacan cnnccttncg tgnctacnca cancctatgc 480
nacagactnn atnacctgaa caanggttta ctcaagnnag acngnnnncc tacgnncanc 540
ttagnnncca gggaaccnnn ntgncnttac aangtngntn nangtcctna gntgagcata 600
cnacccagnt gggganctnct gacnagtttc ctncanactn gtcnccngag tgggaacggc 660
caagatnaac ccnnngccaa aacttnttac gacnttggnc nnttcaaaga tcaaggggg 720
natttaanaa ctngaancct ntannccnnt tcnnaanntn cttttgnnga cnttagnana 780
ngggntganc ccgggcnatn tntcaaaaat ccttnttant tcaccnntgc c 831

<210> 3234

<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3234
gnnntttnnn nnnnnnnttt ncaaatcgct ttggctactn ggntcttttt gcaggatccc 60
atcgattcgc agaggctttg ctagtatcct tcaaccaatt tctagtaaaa atatcctata 120
taaccataat tatcaaaacc agaaaaacaa cattggtagg atactataaa gtactaatct 180
tattttggat ttgacgaatt cctacatgtt tntttctttt ttagtttgta ctctaagaag 240
ttgtattaca tgtacagatt cgtgtaacca ctgcaaccac ataaaactaa tgaacacaaa 300
gtccctcatg ctacctttt atgcttacac tccatccaaa cctaactctg ccaaccactt 360
ttctcctatc agtataattt catcatttca tgaatatgat aaaaataaaa ttgtttttgt 420
aaatggtttt tataaatttt atataaataa gttatatgaa tttttattga tagagagtat 480
gtaagctttt ggcatttttg tcactcagca aattactcct aaggtttata tgagttgatg 540
aatagttgnt ttattatttt tttttaccac catgtatcta accagatgaa agttgtttat 600
atttgagagt agtatacata tttgatgtag tagtttatcc atttcaccta tgagatatat 660
ttgcactggt tttcctgggt ttaagtgctn taaataaaga tgctgtgaaa tctaaaaaaa 720
naaanaannn nnnnnttnnn nnannntngn natatnataa nnnnnnnccn nn 772

<210> 3235
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3235
tccaaaatnc ccttggantn attccccctt ncaatacctt tccttngnac actcccngtt 60
tngntngatc ccatcgattc gaattcggca cgaggnaaca aagaaggaat gtcttcctca 120
tgtttnggtc tatagaagac gttaaagaaa acttccagaa agtgggtttg aggcatgagc 180
caccacgcct ggccaaagga tttaatgaat taatggatgt acagtgctgg ggctgttatt 240
ctagggcctg cattgagact cacattttgc catcaaaagc cttttaagag gtggaggttg 300
cggtgagctg acatggtgcc actgcactcc ggcctgagtg acagagtgag actctgtctc 360
acaaaaaaaa taatgccctt taaataatga ataatagtga tagaaaatgt catttcttgg 420
acaaatgaaa aattgaaatt aatgtatata attagatatt attagctact cttaggtagc 480
ttcatttgtt gaaagtttga caagtgaatg aagttcacat ctggaaatcg ttgaacattt 540
ttcgttcatg gaactcaatg gctacgttag tcgtttatgc ttttcactgt tgtggtaggg 600
gctttggaaa gtnaatgcca tcaacaatgg atacagaang acctggattt ggaataaggg 660
caaaaattta ttttgatggg gctgaattgc tctgccaggg agcattttgg gtattgagat 720
gaaaatggcc tctctttgag actgagctgc cacctggcaa attattgnct gcttaanggt 780
tctctttatn 790

<210> 3236
<211> 781
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3236
aanccccttt tnnangcgnt tccntncanc tnaaancgnt tgnaactcnc nctntctgca 60
ggatcccatc gattcgctaa caagcgattc taaaccacct atgagtattt cttttagggc 120
tcacttaaat acatgtttgt atatactgta ttctagccag aataatttta gatctgatca 180
ggtagtagct aaaattagaa aaaaacaaaa tagatgctta aagaatttgc atccattttt 240
gagtctaaat cttttaaaat atactgagat ccacatctag tgaaatgtca gtgtcaaaat 300
attatagatt atagctaaaa tccagattaa tactcatttg gggtttttta tagtggaact 360
tcatagtaat acaaaaagca gattgtcttc ctgtctccgc tgctcccaca gtaggtattg 420
aaactggtaa aatcagtttt ttgatantgt gtgtatataa gaaaaaatag atacacacat 480
tctttttttct cagtcaacac attgattgaa cactctggca aagatgctgt ggtggatgan 540
gttggagttc gaaagaagaa gcaagcgctn gcctgccttg aaagaaccga agtctttccc 600
attcacttct ctagaaagct gccaagacag aagcagaaag aaatgggatg atagttctgt 660
caaagcacac ttctggnctc ttagaacctt agaagtgntt ctaagagaac agaagttatt 720
aagaagaaac nagntacgtg tgggaattca acaaccttng ggtnggaacc cattggcttn 780
t 781

<210> 3237
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3237
gtnttnnntt tctttctaat agcttggata ctcgttcttt ntgcaggatc ccatcgattc 60
gaattcggca cgagccaaaa tggggtgggg ccgcagtggc tcacgcctgt aatcccagca 120
ctttgggagg ccgaggtggg cggatcacga ggtagggaga tcaagaccat cctggctaac 180
acggtgaaac cccgtctcta ctaaaaatac aaaaaaaaaa caaaaaaaac tagccaggca 240
tggtggcagg cacctgtagt cccagctact cgggaggcag aggcaggaga atggcgtgaa 300
cctgggaggt ggagcttgca gtgagccaag atcgtgccac tgcactccag cctgggtgac 360
agagtgagac ttcgtctcaa aaaaaaaaag aaaataggca caataagtaa tacatttctg 420
cccaagtaag agccttccct tttgtggatg taatgaaaat atcttcaagc actttataaa 480
tnaattatat gtctgatact agccttccat tgcctggatc acatctgatt gtcctggtaa 540
tttnagaaaa gggtagcccc ttggtatgga tagtagcttg atgacatgga attcagggaa 600
aagactatga tggtgtcact tgtaactgct tttgtgctgt aaaattgtca tngattaaag 660
aanaanaatt ngcttggntg cngtggctta cacctntaat cctancactt ttnggaagcc 720
aaataangga cttgnttgga nccangantt tcangaacaa cctg 764

<210> 3238
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3238

gtnttnnntt tctttctaat agcttggata ctcgttcttt ntgcaggatc ccatcgattc 60
gaattcggca cgagccaaaa tggggtgggg ccgcagtggc tcacgcctgt aatcccagca 120
ctttgggagg ccgaggtggg cggatcacga ggtagggaga tcaagaccat cctggctaac 180
acggtgaaac cccgtctcta ctaaaaatac aaaaaaaaaa caaaaaaaac tagccaggca 240
tggtggcagg cacctgtagt cccagctact cgggaggcag aggcaggaga atggcgtgaa 300
cctgggaggt ggagcttgca gtgagccaag atcgtgccac tgcactccag cctgggtgac 360
agagtgagac ttcgtctcaa aaaaaaaaag aaaataggca caataagtaa tacatttctg 420
cccaagtaag agccttccct tttgtggatg taatgaaaat atcttcaagc actttataaa 480
tnaattatat gtctgatact agccttccat tgcctggatc acatctgatt gtcctggtaa 540
tttnagaaaa gggtagcccc ttggtatgga tagtagcttg atgacatgga attcagggaa 600
aagactatga tggtgtcact tgtaactgct tttgtgctgt aaaattgtca tngattaaag 660
aanaanaatt ngcttggntg cngtggctta cacctntaat cctancactt ttnggaagcc 720
aaataangga cttgnttgga nccangantt tcangaacaa cctg 764

<210> 3239
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3239
atggctttgg nnagntccnn ntctttcaaa tncttggcta ctcgntcttt ntgcaggacc 60
catcgattcg aattgtaact tattccagga taaatgtcat atgcatatga ttttcatatg 120
actttgatga gtatcttcag ggaaaattcc taaaaatgaa attgctggat taaggggtaa 180
atgcatgtat agttttgtta gacagggcca catacccttc cttagaggta gtacccttttt 240
gtattcctgc cagtaatata tgagagtcca cagagtatgt ggttaagctt tagaatgctt 300
gtccatctga tagggaagaa atcgtgttgc cttaatttgc ccttctttta ttatgaatca 360
gattttaatc ttttgcctct agaactatag tgagtcgtat tacgtagatc cagacatgat 420
aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat 480
ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca ataaacaagt 540
taacaacaac aattgcattc attttatgtt tcangttcac ggggaggtgt gggaggttnt 600
tttaattcnc ggccgcggcg ccaatgcatt ggggcccggt cccancttttt gttcccttta 660
tgaggggtta attgcgcgct tggcgtaatc atggtcataa ctgattcctg ggtgaaattg 720
tatcccgctc acaattcccc accaacatcc annccggga gcataaaa 768

<210> 3240
<211> 957
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(957)
<223> n = A,T,C or G

<400> 3240
annggagacn nnngngnann gnggggggnnn acnnngaaan ncnnananan acacannann 60
nannnnngag gggcaacaaa cncnnatttt cgaaaanccc ttttgggngt gacccentte 120
naacacttgc ttntcgccct ntgcaggatc ccancgnann cgaaggnggc ncgaaagcac 180
ggngtcccna nnngatgngn aaanatgacc gataaacttc ngggncngat aatgaanggc 240
actatnggnc atactgatgc tgnctcatgg gcnctaccan agacgngaac tggaaaaggc 300
tctgcagngt ctgggatacg ctcagtgctg cangggaggg caggngtgag gggaatggcc 360

ccgganggtg atggggcnng ngcatccgat gcagcnntat agctctgnaa ttaccacttn 420
caaacttntn attacgaaaa atgtcaagga cccnggaatn acaagngagg naggcaggat 480
aatggccccc aanatgcccn tgttgagacc cccanacctt gagagtgcct cacatgggga 540
agactgtcct acgtcancnt gcacgcccan ggcagcccca ngggccctta aagcttgaga 600
gccttncctg ctgagacnga ganatgccag aagcaaggag aggcnagaac ccgaggaggg 660
cccgcancct gcccngnatg gcccttagaa ggaagggccc naannagcgt ggtggccccn 720
ctaaagcaan ctgngngacc ngggggggacc ctnangtacc caangcccct gcaaagcaaa 780
acccngaaat ttccnggcca aaccanacac ccccaangga atgngaangg aaanngngaa 840
aaggnacncc cctngaccnn tgggccaaaa acccccttgga acccccctga aaccttcnac 900
cnaaaatngn gtnaaancnc ccgcganngn gacttnagtg ngcaagcaca cancccc 957

<210> 3241
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3241
ntgtaancct tttcaaatcc cttggctact tgntctttct gcaggatccc atcgattcga 60
attcggcacg aggccggacn gtgactctgg nnacgcttgc gnccntnacg tagntngnng 120
accntgcang anggaanaan ggctggccnn cngntgtacn ctnaccgtcc taaccccgcg 180
aggtccaggn ccgctccttt cggngnggat tctcgcggaa natccctccg gcagctcttt 240
gcaaagctgn ttagaaactt ctcccaaact cggcntggat acgactgcta tagggctcgc 300
tgctgctttt gtggagctct tgctcctcta tccttggcct ctcctgggat acggcccaag 360
gccaagtntt cacgcangtt ggtacgctta tttcgttctg gactctgggg gctntgaann 420
ttcaccacgt ggactgctgg ggancgggnt nccgancact ngnntacctt acnccanaat 480
ctgacaactt ttctggacaa cctacccanc ttcaattggc tngngagcnc ntcngntgct 540
ggggnntncn gtgcaaatgg agncncaatt ggtgggcaaa tngttgatgg ncaaaacggg 600
aaaaagcaac nnncaangct tttggctnaa agccgatang acncaaatta nttnctttgg 660
accttganaa tttcctcaan nnttttnagn anncnctttt ttncttggan aaanacttaa 720
aagtgaacga ttnttgggaa anaaacaaac tataataact naaagctttt ntaaaaaaaa 780
annaatnnt 789

<210> 3242
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 3242
tcnaaatccc ttttgnnagn ttcncncttt gtttcccttt nctnggctnc ttgttctttt 60
tgcaggaatc ccatcgattc gaattcggca cgaggtcctt ttgaaccacc ccaaagaact 120
caacatggca aagcaaatgg taaaagcttc ccgactgttc tactttgggt ccgcgcgaag 180
cccactcacg tgtgatctgt gttgcccctg ggaggcccgg ggcgaccgga aaagggctct 240
ctcaagttct gaaaagagaa tctgccacca gatcgaattt cgacccctga gcttgttcgg 300
acgtatggtc caaattcaga ttaaggtggt cacccaaccc gagatgtcag gaaaggcctt 360
ctgcagagaa aatgtccccc cacccgccat ctgcagccag gtgtgtgcca cacggcagcc 420
ttcccgaaac atagtatgga ttttaaaaat gtgtttattt ttgtttctca accactttat 480

aacgtatttt ttaatttatt ttgtaatgtc ttgttttgaa gtattgctgc tatccttgnt 540
atccttccca ctgtttttat cactgattta ttttgtgaaa agttgtacac taatgttcta 600
tgtcaaaatc aaaaagtatt taatgaaata ctagttctat ttaatgtggg ntatggaacc 660
ancttggaaa cacaaaacaa acaggggatt gtacaagcan gcttggggcc caagnaaggt 720
caaggttcat ttggttacca tatgccnata aaacctcanc gaantttttaa aaaaaaaann 780
nnnnnnaaaa aancttggng ggct 804

<210> 3243
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3243
ttcnaatngc ttgttcacgc cctttctgca ggatcccatc gattcgaatt cggcacgagc 60
ttctgttgat tggtttgttt aaagtaccta agtactacnc tttgactccc taccaaaagt 120
tcttttgttt tttaaacaac ttttatttgt gacttacttt cttgagaagt gttcttaatg 180
aattgcanna cccantggta gcagcttatt tcttaagtac tttattattt gtgctttacc 240
atttcaggtt cttatcttta acccttattt actcagtttt ccatctgaat gatcctatct 300
ctaaattaag gatttaataa atgctgcaaa ttgtccactt tgcaaattgt ccaaaagctt 360
tagttttgga accttgtgaa ctttttttt aataacacat tatttgggcc ggtcgtggtg 420
gctcaagcct gtaatcgcag cactttggaa tgcctaggca gacagatcac ttaaggcctg 480
nagttcgaga ccagcctggc caatgtggng agacctncgt nctatttact aaaaatacta 540
aaaaattagc aaggcatggt ggtgcacgcc tgtaatctna gctactttga gaggcanagt 600
tcaggagaat tgcttngaaa ccttgggagg cannagattg agcccaagaa ttggaccant 660
gganttccac ccctgggtga ccagagtgaa gaaatcttnn ctcaaaaaaa ccataaaaac 720
cctntnctnt aaaatnaaaa aaaactntga gccttttttat aacttnagnt ggagtcagga 780
atnc 784

<210> 3244
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3244
tccaaaatnc ccttggantn attccccctt ncaatacctt tccttngnac actcccngtt 60
tngntngatc ccatcgattc gaattcggca cgaggnaaca aagaaggaat gtcttcctca 120
tgtttnggtc tatagaagac gttaaagaaa acttccagaa agtgggtttg aggcatgagc 180
caccacgcct ggccaaagga tttaatgaat taatggatgt acagtgctgg ggctgttatt 240
ctagggcctg cattgagact cacattttgc catcaaaagc cttttaagag gtggaggttg 300
cggtgagctg acatggtgcc actgcactcc ggcctgagtg acagagtgag actctgtctc 360
acaaaaaaaa taatgccctt taaataatga ataatagtga tagaaaatgt catttcttgg 420
acaaatgaaa aattgaaatt aatgtatata attagatatt attagctact cttaggtagc 480
ttcatttgtt gaaagtttga caagtgaatg aagttcacat ctggaaatcg ttgaacattt 540
ttcgttcatg gaactcaatg gctacgttag tcgtttatgc ttttcactgt tgtggtaggg 600
gctttggaaa gtnaatgcca tcaacaatgg atacagaang acctggattt ggaataaggg 660
caaaaattta ttttgatggg gctgaattgc tctgccaggg agcattttgg gtattgagat 720

gaaaatggcc tctctttgag actgagctgc cacctggcaa attattgnct gcttaanggt 780
tctctttatn 790

<210> 3245
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3245
gnnttttcta aatcccnttt gcnttactcc ctctttcaaa tcgcttggct acttgcnctn 60
ntngntttgc aggcatccca tcgattcgaa ttcggcacga ggaacaaaga aggaatgtct 120
tcctcatgtt tgggtctata gaagacgtta aagaaaactt ccagaaagtg ggtttgaggc 180
atgagccacc acgcctggcc aaaggattta atgaattaat ggatgtacag tgctggggct 240
gttattctag ggcctgcatt gagactcaca ttttgccatc aaaagccttt taagaggtgg 300
aggttgcggt gagctgacat ggtgccactg cactccggcc tgagtgacag agtgagactc 360
tgtctcacaa aaaaaataat gcccctttaaa taatgaataa tagtgataga aaatgtcatt 420
tcttggacaa atgaaaaatt gaaattaatg tatataatta gatattatta gctactctta 480
ggtagcttca tttgttgaaa gtttgacaag tgaatgaagt tcacatctgg aaatcgttga 540
acatttttcg ttcatggaac tcaatggcta cgttagtccg tttatgcttt tcactgttgt 600
ggtaggggct ttggaagtaa atgccatcaa caatggatac agaagacctg gatttggaat 660
aanggcaaaa tttatttgat ggggctgaat tgctctgnca ggancatttg gtatgagatg 720
aaatggcctc tcttgagact gaactgccaa cctggcaatt attggctgct aanggttctc 780
tttt 784

<210> 3246
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3246
gnnttttcta aatcccnttt gcnttactcc ctctttcaaa tcgcttggct acttgcnctn 60
ntngntttgc aggcatccca tcgattcgaa ttcggcacga ggaacaaaga aggaatgtct 120
tcctcatgtt tgggtctata gaagacgtta aagaaaactt ccagaaagtg ggtttgaggc 180
atgagccacc acgcctggcc aaaggattta atgaattaat ggatgtacag tgctggggct 240
gttattctag ggcctgcatt gagactcaca ttttgccatc aaaagccttt taagaggtgg 300
aggttgcggt gagctgacat ggtgccactg cactccggcc tgagtgacag agtgagactc 360
tgtctcacaa aaaaaataat gcccctttaaa taatgaataa tagtgataga aaatgtcatt 420
tcttggacaa atgaaaaatt gaaattaatg tatataatta gatattatta gctactctta 480
ggtagcttca tttgttgaaa gtttgacaag tgaatgaagt tcacatctgg aaatcgttga 540
acatttttcg ttcatggaac tcaatggcta cgttagtccg tttatgcttt tcactgttgt 600
ggtaggggct ttggaagtaa atgccatcaa caatggatac agaagacctg gatttggaat 660
aanggcaaaa tttatttgat ggggctgaat tgctctgnca ggancatttg gtatgagatg 720
aaatggcctc tcttgagact gaactgccaa cctggcaatt attggctgct aanggttctc 780
tttt 784

<210> 3247

<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3247
gtttcnaata ncttgctttn nnnnnntctt caaatngttg gacccccctgc aggatcccat 60
cgattcgaat tcggcacgag gtgtgcttgt gaaatgtcca ggcgtgtgca cagccagtgc 120
gcccacttcc gggctccttg ctccctgctg tactgaagtt ttggattttg catccaatcc 180
tgtgtgcctg cccttctgcc gaaggcttgt gaggggcctg agtcctctgc ccatcaggat 240
gacaggctcc ttcctgcagg gccatangag ggaagttttg gaaacacaga atgattccaa 300
ggtgctctcg ttcctgaggg ggactggttt gtaacccatg acatctgtgg gcgagagagg 360
cagctgggag cangacactt ggagggtcac cccacggggg tggcacctgc actctgagtg 420
ccccccactg tcatcagctg cctcttaccg tggacacagt tntggttttg gggactangg 480
ggcccnactc ctggtggtac cgtttggact tactagggca gtgggacata tangcccggg 540
gctagtgnga taacggggag ttacncctga tgactntttt gatggaatcc tgcattagat 600
agcttngtgg gacccccccc ctcanaattt ggggaactga ngagaattcc nngaaggtgn 660
cnttcangga gagcaccttt naaggggccc cctaacttcc tgagcctgga aattagaata 720
ancattaaag gggcatacac acctttttccc aaaaaacccc tntccatttg gttttt 776

<210> 3248
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 3248
gttctaatgc ntngnntcat cctttcttca aatgctgtng ttcttttgcn gatccctcga 60
ttcgaattcg gcacgagacc ctctctggcc acatggaggc agtttcctca gttctgtggt 120
cagatgctga agaaatctgc agtgcatctt gggaccatac aattagagtg tgggatgttg 180
agtctggcag tcttaagtca actttgacag gaaataaagt gtttaattgt atttcctatt 240
ctccactttg taaacgttta gcatctggaa gcacagatag gcatatcaga ctgtgggatc 300
cccgaactaa agatggttct ttggtgtcgc tgtccctaac gtcacatact ggttgggtga 360
catcagtaaa atggtctcct acccatgaac agcagctgat ttcaggatct ttagataaca 420
ttgttaagct gtgggataca agaagttgta aggctcctct ctatgatctg gctgctcatg 480
aagacaaagt tctgagtgta gactggacag acacagggct acttctgagt ggaggagcag 540
accaataaat tgtattccta cagatattca cctaccactt cccatgttgg ggcatgaaaa 600
gtgaacaata atttgactat agagattatt tctgtaaatg aaattggtaa gagaaccatg 660
aaattncata ngatgcngat gcagaaagca acctttttga aagtttatat aatggtttna 720
cccttcataa ccagcttaac ctttcacttt ttcttatttt ggatttataa ataagaa 777

<210> 3249
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(770)
<223> n = A,T,C or G

<400> 3249
gntcctnnnt ttcttatnct tggctactcg ttctntctgc aggatcccat cgattcgtag 60
ggattgagga agatctagca gaaccttcta agtctcagac acgtaaaccc aagtgtggca 120
aaggaactca ttgctctcga aatgcatata tgttggttta tagactgcaa actcaagaaa 180
agcccaacac tactgttcaa gttccagcct ttcttcaaga gctggtagat cgggataatt 240
ccaaatttga ggagtggtgt attgaaatgg ctgagatgcg taagcaaagt gtggataaag 300
gaaaagcaaa acacgaagag gttaaggagc tgtaccaaag gttacctgct ggagctgagc 360
cctatgagtt tgtctctctg gaatggctgc aaaagtggtt ggatgaatca acacctacca 420
aacctattga taatcacgct tgcctgtgtt cccatgacaa gcttcacccg gataaaatat 480
caattatgaa gaggatatct gaatatgcag ctgacatttt ctatagtaga tatggangag 540
gtccaagact aactgtgaaa gccctgtgta aggaatgtgt agtagaacgt tgtcgcatat 600
tgcgtctgaa gaaccaactt aatgaagatt atnaaactgt taataatctg cttgaaagca 660
gcnagtaaaa ggccnatgga ttttggggtg ggggaantcc cttccttgcn gantttggcc 720
ccanctancn tctttgaaca ncttgntnaa ncaananggg nggatgcann 770

<210> 3250
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3250
ggnncnnttt nccccccttt tgaaaacccc ttttgggnga ancccncttc tttnaaatcn 60
cttggctact cgctctttnt gcaggatccc atcgattcga attcggcacg agtatataac 120
aacttttgct ttcaaagttg ggtgggacta gaacacacaa tggaaggatg gagtcaggag 180
acctggattc ttgtgcccgc tctggctttt acagtctgcc taactctatg cagtcacttc 240
ctgccagcct gtttccttac ctacaagagg gagagacact ccctggccag cctagttctc 300
agggtgaacg aaaggtcatt atcactgcat cctctagtca tttgcttctt cgctaattaa 360
cacatcttga gcacctgcga tgttccagga acaggagatg gcagcgtgca agataaaagt 420
ccctgacttc tagagactgc atgttagtgg caatcggcgt ctacccggcc ttcaataaac 480
tactgaatga aggaaaattc tacctagcac cagacacaat tactgggttt ctaaaatgga 540
attattcccc cggccccctg catccagcag cctgctgcag ggaagctcct ccgaagctgt 600
aggcaggagc gggacaaatg cttgctatca gcttcacaga atgttaccta agtactattc 660
ctacacagcg ccttacagaa caaacagtaa aaaccaaatg gnaagcatgc acnggcttaa 720
aaactcaaac ttcctaacta ctcagtaatt anganggtca ttttacccca aaatagaatt 780
ttcnatttat ccaataanaa 800

<210> 3251
<211> 1144
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1144)
<223> n = A,T,C or G

<400> 3251
gnnnnnnnnn nnnntttnnn nnnnnntttt tttgnaaaaa aatccccccn ttttgggccn 60

aaaaattngg nccctccttt ttnntgggca aggggaatc cccccaaatt ttttnnaaaa 120
ccggaccant ttttcggggg cnaaccggaa ggaaaccaat ttaaaggccn cctctcncaa 180
acccccccct tgggaanggg gggaaattgg naaaggaaac caaggccttt tccccccttt 240
gggccaaagg ggccnaaggg ggccntgggt tggccccccc naaagtttcc aaanttnttt 300
tnaaaaaggg cccccnttaa ccaaaagncc tttgggggggg cccttnggcc cttnggggnc 360
cttggccnaa ngggggggttn cctttgggga aaaggggggc ccgggggttg gggggggggga 420
aaagggggtt tggggccaaa ngnaacaaag aaaagtttan nccaaaangn aacccccccc 480
naacttttnc ncntngggcc ctncntttna acaagaacct tgccgttcaa tggcccgggg 540
gccttgggga accggcaagc aaaggcccct ggcttctttc tggcccnggc catgaaacac 600
cgncatgttg ggagcacccg atcacaagcg caacaaggta gaccagctca anggcctttt 660
ggctatgtcg agatcccctg tgtggccaag aactggtgtg cngagatgaa agtctcgggg 720
ccatggctga agtggggacc atcgtggaca aagtgaaaag aaagtcctct ttcancacaa 780
gtggctttca acagaagttg acctgggatt tctgtcatgg gtgtccctct ggactcaaaa 840
atgggttcaa ggcccaagtc ggtgaanatg gatgttggca aaaataggaa ggataccctc 900
attttgctgn aatnggggga anctgctctt naccttgccc aaggggccaa ggcctggttc 960
aggttnaaac ttgggaccgg aaaggcccaa gtcttaattt cttttcaaac cnaggaaaag 1020
gnccgnttgc cttaaaaacc ccttcccaac tttttcctgg gatgggntga aggcaaancc 1080
angaaaancc aagcaatggt tgttcntcaa cnggaaggaa gggacttgaa ccnaactggg 1140
gaaa 1144

<210> 3252
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 3252
ntttctannc nngntttcaa atcccttgca ttngcncctt tgtttgatcc catngattcg 60
aattcggcac gagagaagat tggggatgag gagtgaggag antgctggag accagttaga 120
ggctaccgta gcagcgtana gaggctgaaa atctaactag ggtggaagca gccaggcagg 180
ctggtcctaa tgttgggagt tgttcagatc tgaccnnana ggtcattact tatagagtta 240
ttaatttata ccccacctta attgcaaaga gattcaaagc agtaagccat cactttagaa 300
tttaatgttc tgtttttcctt tttatttact cattcagcag ctatttcaat gcctgctgtg 360
tgccaggtgc tattcttagn gctttacttg ttgtatgtgt natctaatgc tgtgtaacaa 420
attactcctg aacttaccaa ctcacaacaa catttattag ctcacagttt ctgtggagca 480
tnggatctag atgtggctta gttggggttg ctggcctggg gtcttctnct aaggctncaa 540
cgaaaagtng aggcccgggc tgcagtnatc tgaaggctct antggggcaa gatcccactt 600
caagctcact naatgngcng ttgncntang nttagttnnc ttgcaatnct attnggattt 660
ggngccctaa gttcctgggc atatagcccn nnnctnntat ggncaaggtt cacncnttgn 720
gngcantttt acacccttnn aagtcntgna nntangntgn gnagnaanng aaactaaacn 780
aatttannan nanntatata aanctcnnnn ncccttcc 818

<210> 3253
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 3253
caaatccctt ggctacttgn tctttttgca ggatcccatc gattcggact tgaaaaaaag 60
tcacatccag caaatgcagg gtcacatgaa atatgggcct cctggaatcc ctacagtgga 120
tggagactgg ctcatacctt gccagatccc tctctcagtt ccagccttct ggacaaggcc 180
tgggctaaga ggagctgnnt cgttatctct tcacccactg ccctctcagt atcaccagtc 240
ccaaagacag gatacgtccc tgtaacccaa tctctcggtt gattgatagc agaacagctc 300
ttgttggtct gagaaggcag gataagtgac cacatattta tgccactacc tccaccaggg 360
agagtccttc tccacaggct tgataaattc aatcaccaac tgtgctgtcg tccctgactc 420
tgctactccc gttcttcctg ctttcctgct ccgtatctca gtctgcactg accccaaggc 480
tgggctgaca tcaagatggg agcccagccc acgggcttta taaacaccca agaaccgttt 540
cagatcttct ctggtgctga tgcangtagt tttaaatttt tctcaagttn cagtgataga 600
aaacccacac aatcatcctc tggccagtct taatagaata tcagaggttn anaagggcct 660
tcanaagaac ttttnacnca atgcctgctt gggggaaang gaaagttgac ttaacccccg 720
ggttcaaacc tggccatttn angggggaaaa aancttnaag gttcnttacc ccntngnttg 780
gcatgcttgc cnccncc 797

<210> 3254
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 3254
gnnnnnnnng gtnnnntttc aaatccttgc tcttgcntgt ngttgatccc tcgattcgaa 60
ttcggcacga gggagcaaat aataagccct tgtgtgtgtt tttggcagaa aagccatgaa 120
gacaagcaga tgctaataaa agaatctgca tctttgttng ttattccatg ttaaagggtt 180
gaaataaagg taagagaatn tttgtactgt tgttatcccn aatccatctc ctgttctact 240
ctctattcaa aataatcgta cagtgactaa cagagctttc agaccaacag tatttttat 300
ttttcatttt aagttcaggg taccaacatt tctttccatg gatgttgatg gacgtgtcat 360
cagagctgac tctttttcaa aaatcatttc ctctgggttg agaataggat ttttaactgg 420
tccaaaaccc ttaatagaga gagttatttt acacatacaa gtttcaacat tgcaccccag 480
cacttttaac cagctcatga tatcacagct tctacaccga atggggagaa gaaggtttca 540
tggctcatgt agacagggtt atttgatttc tatagtaacc agaangatgc aatactggca 600
gctggagaca agtggttaac tggttggcag aatggcatgt tcctgctgct ggaatggttt 660
tatggnttaa aggtnaagnc tttatgntgt aaagaacctg tttgaagaaa angccgttaa 720
gatggggggn tttaatgcct ccctggaaaa tggnttnttc cgtcgntang ttaannttcc 780
tagncccttc ttnc 794

<210> 3255
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 3255
gnnnnnnnng gtnnnntttc aaatccttgc tcttgcntgt ngttgatccc tcgattcgaa 60
ttcggcacga gggagcaaat aataagccct tgtgtgtgtt tttggcagaa aagccatgaa 120
gacaagcaga tgctaataaa agaatctgca tctttgttng ttattccatg ttaaagggtt 180

gaaataaagg taagagaatn tttgtactgt tgttatcccn aatccatctc ctgttctact 240
ctctattcaa aataatcgta cagtgactaa cagagctttc agaccaacag tatttttat 300
ttttcatttt aagttcaggg taccaacatt tctttccatg gatgttgatg gacgtgtcat 360
cagagctgac tctttttcaa aaatcatttc ctctgggttg agaataggat ttttaactgg 420
tccaaaaccc ttaatagaga gagttatttt acacatacaa gtttcaacat tgcaccccag 480
cacttttaac cagctcatga tatcacagct tctacaccga atggggagaa gaaggtttca 540
tggctcatgt agacagggtt atttgatttc tatagtaacc agaangatgc aatactggca 600
gctggagaca agtggttaac tggttggcag aatggcatgt tcctgctgct ggaatggttt 660
tatggnttaa aggtnaagnc tttatgntgt aaagaacctg tttgaagaaa angccgttaa 720
gatggggggn tttaatgcct ccctggaaaa tggnttnttc cgtcgntang ttaannttcc 780
tagncccttc ttnc 794

<210> 3256
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3256
ctaatncttn tcnntngctt tnnngangat ccatcgattc gaattcggca cgagagactc 60
ttcattctat caccctgtct cacaaaagac ttgcccaagg ctacgaagca nggcagtgac 120
tagagtccag acatcagnaa ctagttccat gttnttttttt tcactaccag tccctaggcc 180
ccaaaccgca gatcctgctg tgnngaccat taagcccctg actgttctag gctcaacttc 240
caacccttttc tgcaggtcct attacctctg cctcatcctc ccaacatgat aaccagagtc 300
ttccttcaca ttgtactgcc taccccctta tgttcccagg ctctcccttg gttttattac 360
ctccttgcag tccatttttca gatcctgtcc attgatctcc acccgcacaa tgatcacctc 420
ataataccac tcccgccgga tgggtgtata ccagagactg cctgtgtaca agcgagtggt 480
cgatacctca atgatctang gaaaaaaaga ngcaggtccc gtgtcctggc acagaaggag 540
agtgagtccc caaggaccaa gcaataagat cagtgatttc ttggggtggc aangtcttct 600
acaggctacc cttttcatct tcctgcttnt aaacaaatca tacccaaagn gatttctant 660
ttcttnaatg tgttcagggn gaaaagactt ttccnggaat ttttaattta tttggttcan 720
aaatcataca ggccttggan antaaaggta ttttaaatct aaaactggcc ncaattaaan 780
tntc 784

<210> 3257
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 3257
ttnnnnnnct nnnggnnttt cnaatncttg tttctcgncc tttctgcagg atcccatcga 60
ttcgaattcg gcacgaggat tttcgaaact cttcagctac ttgccctttt ttatctgaaa 120
ccatcatacc ttctgaaaga aaaaagcata tcttcattga cataacagaa gtgagatggc 180
ccagtcttga tacagatggt accatcntnt atatggagag tggcattgtg aagataacat 240
ctttagatgg tcatgcatac ctctgcctgc ccagatctca gcatgaattt acagtacatt 300
ttttgtgtaa agttagccag aagtcagact catctgcagt gttgtcagaa acaaataata 360
aagccccaaa agataaacta gttgaaaaaa ctggcaaaat ctgtatacgt ggaaatttac 420

cangacagag actgaagaat aaagaaaatg agtttcattg ccagatcatg aaatccaaag 480
aaactttaaa gaagatgagt tgtgtaaatg gaactgaagg gagggaagag ctgccttcgc 540
ctggtacaaa gcacacatgt gtatacacat gggtcaagca gtgctggtct gtggctgcct 600
gtccagagga atgggaaata ttccttttgtc tttagcactt cattttttcta aataaaaatc 660
anccaatatg tctaaaaaaa aantttnttn ataataaacc tngaagccct nttanaacct 720
tntnntggag gtcctnnttt accntatgat tcccggaact tggataagga atcccntttg 780
gattgganat tttgggccna aaacccncna nncttggaat cc 822

<210> 3258
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1052)
<223> n = A,T,C or G

<400> 3258
tttccctnaa aaaaattggn ncccttttng ggccctnaaa aattgggccc ttttgggggn 60
nnnnggccaa ngggaaatcc ccccaatnnt ttttataanc cgggcctccg gttaanttcc 120
aaagccaatt ttaatttaac cttnaggggg ccttgggccc ctccccaatg ggttgggttn 180
nnnntntcca aaaaaanggc ccccccccnaa tttnccaaaa gggttnttnt ttaacctttt 240
tccttnaatg gggggtnnna aaaccctnaa aaattttnnn ttaaccaatt nacccaccca 300
aaaaaatcct tttttnncca attttntntn cctgggaaaa ccttttcccc tttttaatgg 360
ggctttttaa ccttggtcaa ccccccaact taggtanttt ggatggtctt taagctaann 420
gaaccnaaat tnctggatca atttcacttt gtcacatcag ggaaccctat cctcttagtt 480
ctcccattga gatttcactg ctggactaag attattcttg attcgtagtc attggnttct 540
gnttccattc attttcagca ctgattatgt taatcgtatt gctttgagtt ttttctttgn 600
tcaaatgttg nttattacat tcatttttgnt tcatatacac acattntttt tttttaactg 660
gcattttgag gatattggng ttaatgggaa ggaaaaagga atggtgcaaa agcacatggn 720
atttgaattc caaagacctt gaccctcang cattagcaag gtcacttggt ttctgagcct 780
cantttttctt actctcaaaa tggagggtaa tatcccgaaa agnactttga caaccacacc 840
ttaaaagcct ggatgcaana atttncctttt tttgnaagta aattgnggct gggttcttaa 900
ttncataatn ngggataatg gggaattcct angggaattt ngggctatta ggaatccntn 960
cnattttaaa aaatggtatt ttaacangcc ttggtaaaan ggttcanttn catggccatn 1020
gnggaacaat gttcccentt tatgaannta cc 1052

<210> 3259
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3259
gnnnnnnttt nnnnnnnngt ttcnaatnct tggcattgat ccnttgnttg atcccttnat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240
ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420

ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaatangg 480
gaaactattc agagaaaact taagccacta agttttatgg ngntttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcaggcc 600
agcatttttt tcttgaaaac ctggagcatg tattccatct tatagcagag atcactttca 660
caatggttgg ggctcttgga tttggaatgg atgatgtaat gaagccctct tntncagatt 720
ggnaactaat tactcttggg gaattgactn ggattccaca ccccttctta anaattntac 780
ttttnctctt tttatcaaac 800

<210> 3260
<211> 1098
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1098)
<223> n = A,T,C or G

<400> 3260
gnnnnnnnnt ttnnnnnttt ttgnaaaanc ccccttttgc naaatngncc ctttttntgg 60
cangggatcc ccatntttat ntcggacatt ttcgggccac cggaaggggc cgggggcccc 120
cgggccncca ggnccgggna aaggcccccc ttgggcggcc cccggncggc cccaatgggt 180
tccaaaaagg gaaaaaaaaa aaaggggggaa cctgggaagt tggcccanga aaangnaaaa 240
aaaggnaagn aaaccttccg ccaatgggaa tggggaaaaa taatttttтc ttgaaaaacc 300
caaaaaagga atggttattt ttcaaattta aaaaaggaac nttgggaaga aagaattggc 360
ttcccacncg cagaaagggc attactggct atgtcaagta aaagaagtcc ttcaaagctt 420
agttgatgat ggtatggttg actgtgagag gatcggaact tctaattatt attgggcttt 480
tccaagtaaa gctcttcatg caagggaaac ataagttgga ggttctggaa tctcaagttg 540
tctgagggaa gtcaaaagca tgcaagccta cagaaaagca tttgagaaag ctaaaattgg 600
ccgatgttga aacggaagag cgaaccaagg ctntgcaaaa agagcttttc tttcactttc 660
gagaccaaag gggaaccagc tnnaagggcn agaaaagttn gaaaaaaatt ccaaaggaac 720
tggtggaatc ccccaaaagg tttggttggg gaaagaaaaa ttcccgcccc aangccaaaa 780
tttaaaaggt ttngccccca aagggaaaag ncttgncctt taacccagga attggggacc 840
ctgggantta aaaccnataa ttttcccgcc naattnnaaa aaattcnttt nggggncccc 900
naaaanggna aaaaaatttt ngggggggttt tggnaaggna aaaatttnaa atttggattt 960
ngaaactttt ttngggaatt ccccagaaag aacttttgac cttccnttng acctnaaaaa 1020
ttttcccttg ggggggtgna anggatgttc ccaagctttg tggnatattg gtaaaatttt 1080
naaccttttn tncttacc 1098

<210> 3261
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

<400> 3261
gnnnnnattn ccctttnaaa tnccncngaa ancccttgga agcactaccn ctcngacccc 60
tttggaacgn cgactnctnn atatatcnng gatataatag gtgataagtt ctgncaatta 120
gtaacatcng gaaaaaacag ctnngncctg ggngaaaaag gatgccaaaa tngcctggaa 180
aagagcagng gagaggagtc cgggagatgn gngatgcatc gggacgcanc atngntnaac 240
attcactggg tctgccaaaa atgtggattt gngggctgct tagatngtta caaggcaaaa 300
ggaaaggaaa gagttctaga gataaaagaa ctatatgctt ggatgaagtg tgtgaaggga 360

cagcctcatg atcaccaaca tttaatgccc aacccaaaat tataccnggt tctgntttga 420
cagacttcta gatgccatgc acactcttag ggaaaaaata ttgggattaa ancccatngg 480
cattggacta acaaacagga atttacaagg tnggaaantt ttncnaccaa tgaaaggggg 540
gatcncaagg ttttccagaa nggntcntaa tcncaggnaa taaaaattnc tctngggcaa 600
gccctgagtc ttaancagca aaaanactcc tcccgaancc tgnagaaaaa agggggggca 660
gccaggcccn naaanggaan gtnaggcccn agatnaacaa ngtnacctcc ncccagnaaa 720
ccccannccc caactggnac cngggnaacc cacaacnttt gcngaagncc aaaaaagncc 780
nnnagangga aaaaaaaaaa naananaaaa aacctnnnag cccctaagaa accttagggg 840
nggcccncc 849

<210> 3262
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 3262
gnnnnnnttn nnnntttcta atgcttntna aatnccttgg nagcaggatc ccantttcaa 60
ancgcttggg gcctatacca ggagagcgga tcccagacgt ggctgcattg nccatgggct 120
tctctgtgaa agaagacctt tcttggccag gactcgcagt gggtaacctg tttcatcgnc 180
cncgggctac cgtcatgggt gatggtgaag ggagtgaaca nancggccct acccccaggc 240
agngtcattt cgtacccttt ggagaatgca gttcctttta gncttgacag tgttgcaaat 300
tccattcact ccttattttc tgaggaaact cctgttgttt tgcagttggc tcccagtgag 360
gaaagagtgt atatggtagg gaaggcaaac tcagtgtttg aagacctttc agtcaccttt 420
gcgccaagct cccgtaatcg cctgtttcaa gaaaactctg ntctcagntt caactcccct 480
caattctctg agtnggaaca atgaaagntg acctgctcnt ttctttctga acngcaagtg 540
ctacaatgat atttcaagct ttgctggcct cggacattaa gcattntagc ccaaggatca 600
attctncctg gaattaataa ttccacntgg gangcctggc aaggtttgga atgaaaaatt 660
ggggaagccc ttatggggga aananctttt gaacaanttc aataagaatg cnttcnaaag 720
aacccttggt tgaccccntt gccaaaaant ttggcaacaa tgaacatngt tcaagncttt 780
tatggggggg gaantgccnn ngggntngaa nttaggcccc tngnaaaaat caattttgga 840
caacctcccc ttcatanc 858

<210> 3263
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 3263
tnccttncna atccttnttg cangatccat cgattcggag ttttttttttt ttttttttttt 60
ttttttttttt ttttttttttt ttttttttttg aagttttag ttaattaang nncttgcgaa 120
aaatccanac cagntttatt tcaggggnna nagtnanaaa ncnctgcaat ntgnncttaa 180
ngggattcga ttngaggccc cccnccnggg gganantgtn anccagggat acnacaaant 240
ncttggcaag tcactggana ccgacnttcn tgcatttngg gaaanaanct gggtttgngg 300
nnaantaaag cattttgacn atgactgntg cctaaananc cntggcattg gccagggatn 360
ctgtggaacc ctttttttnnt tnaatgggtg ntgagcatta aactgncact tgttnanngn 420
nattagannc tttgatngna acttttnann ancccccgaa nnctggnncc cctnaatntt 480

tnaattngcc cctnttttte cnanggggat atantatttn ntntngggtn ggaaaatttt 540
tanaggatna anntcncect ttttttnttt tttantcccn atcntttnnt tntnctttn 600
nnccctttt tntnttgngc nnnntanaaa tttcnctgta antggatttt naatttttngg 660
nnaannnant ntaanggntc cctttttttn aatttnanaa aatgggtttt natnttctac 720
tcttcnancn cntnnggntt ttcnacntca natgtngcnn nngnnaaaaa aantnntttn 780
ccatgggnct nnctaanata aatcttcntt naatggtntn tannnttttt caaan 835

<210> 3264
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 3264
ctaatagctt ttcattcnaa tgcttgtgat ccctcgattc gaattccgtt gctgtcggac 60
agattgccct agtacccacc cacctatcag ggttatgcaa tggaacatcc tcgcccaagc 120
tcttggagaa ggcaaagaca actttgtaca gtgccctgtt gaagcactca aatgggaaga 180
aaggaaatgt ctcatcctgg aagaaatcct ggcctaccag cctgatatat tgtgcctcca 240
agaggtggac cactattttg acaccttcca gccactcctc agtagactag gctatcaagg 300
cacgtttttc cccaaaccct ggtcaccttg tctagatgta gaacacaaca atggaccaga 360
tggttgtgcc ttatttttte ttcaaaaccg attcaagcta gtcaacagtg ccaatattag 420
gctgacagcc atgacattga aaaccaacca ggtggccatt gcacagaccc tggagtgcaa 480
ggagtcaggc cgacagttct gcatcgctgt tacccatcta aaagcacgca ctggctggga 540
agcggtttcg atcagcttaa ggcttgtgga ctcttcagaa cctgcaaaac atnacccaag 600
gagcccaaga ttncccttat tgtgtgtggg gacttcaatg canaccaaca gaanaaggtc 660
tncaaacact ttgcttcttn cagnctnaac cttganagnc ggcctacaag ntgctgaatg 720
cttgatgggc aatttagaac ccccatacac ctacctgg 758

<210> 3265
<211> 1050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1050)
<223> n = A,T,C or G

<400> 3265
tttctaatgc ttggctttga gncctctntt taaaatcctt tggcnactac tctgcacgat 60
gcggcgctga cccggncggn cccacacccg ctctttnctc ttctttgccg cggactccct 120
ttcctgcctc caagacctgg gtgtctacaa ctgtgagccc agcttgnncc aaaggcagtc 180
cccatgggac ctagactcac cttnccccttg cctctatgaa accttctgct tgggcccanc 240
ccctgttcca gctcccgacc tgcacttcct tgctgggact cangcctcca agctccctgc 300
ccagcnagcg gncttcagcc accgtcttcc cctttctttc gggccctgnt tgtnagcanc 360
tttgcagaaa cccananggg acctngtgcc ccttgcnaag nctgtcgcct tggtgcaaga 420
ctgncctgtn ctgcatcatt ttncatggtt gncgggggtg tggggntnnn cnngncgnnn 480
cntgntcaca atcaancatn tatncctnan ntngggtatn acnaatggcc tnaagantgc 540
tacntcntan nnnnganttn tcangnnntn ttactaacnt ncnatngnnc ntnganatag 600
ncatgnantn ttagtntntg atntanccnc nattgcagcc ncataattat cctacaccac 660
anannaancc ntccttnnag aanntgncnt ctatgnaana gnctnnnaat gtggcnncna 720
atataannтn ntntnctnnc atcntannnn nntcctacgt nannnnncat nnncnctntn 780

ggnnactatc ncatantaca tcnntnannn cacccatnct nntntnanat ntctcntggg 840
nantnnnntc tcctnnanat ncnctaatna ngatctctca nntacatgan ntanatnacn 900
natanngnnn anatcnannn ngtctctcnt atnnnttatn nanngntcan nttacnnnan 960
nannnaanng tatnntngtt cnaaannтat ntataaancn ncgtnnnttt nnannagatg 1020
tacnccnntn anntaannat ctangctccg 1050

<210> 3266
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 3266
gnnnnnnant nnnntttnaa atccttnntg aatcctttga antaccatcc cnttttncga 60
attnggcacg aggaaaggtg gcgcgcttct cacggctgag ttgctgcgcc ttgcagacgg 120
aagctcccca caggcagagc tgcttggatg tgtgagtcat gaaccagaga agccccgctc 180
catgagcagt gactccccan gccctgtgac ctccctcctn cttgcagctc ctcctggcac 240
cagtccccag ggctctcctg ttggtagttc ctgcttttct tcttggaaat tcctcgtgga 300
cctcgagatc tttaccctaa aatagttctg ttgaatttca ccctggcaat gtaaattgat 360
agcttatctt cacagatgcc agacaatgga caactcacca tcagtcctct gctcacctga 420
gacaaatgca tgtctgattg cttcctctgc cctattgntt atgtgaaaat gcagattcac 480
tgagccagac taaggcatca gtgactgttc ctctacctgc ctctcacatg gagattgtgt 540
attcagtgaa aggctgatca aagacccaaa ggaatgcaac agtttatctc ttatctacct 600
atgacctgcg aactggccaa caacccagtt gttgncgcct tttcagacag aaccagtgtc 660
atcttacacg tattnaaatg gatgtcctgg ngtctnccta atatgtattc aaaagcaagc 720
tggggcctng accacccttn ggcacatatt cctcanggac atcattcctg angctgtgtc 780
actggcatgt ccttaanc 798

<210> 3267
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 3267
ngnnnnnttt ttnnnnccgg tttgaaatcc ctttgaattt gnaatcgttg gtgatcccat 60
cgattcgaga aatcggaaca aaagtagaag ttgtggaaag gaaagaacat ttgcatactg 120
acattttaaa acgtggctct gaaatggaca acaactgctc accaaccagg aaagacttca 180
ctgaagatac catcccacga acacaggata gaaagaanga ancccgcct gtatttttcc 240
agcaaatata acaaagaagc tcttagcccc ccacgacgta aagcctttaa gaaatggaca 300
cctnctcggt caccttttaa tctcgttcaa gaaacacttt ttcatgatcc atggaagctt 360
ctcatcgcta ctatatttct caatcggacc tcaggcaaaa tggcaatacc tgtgctttgg 420
aagtttctgg agaaagtatc cttcagctga ggtagcaaga accgcagact ggagagatgt 480
gtcagaactt cttaaacctc ttggtctcta cgatcttcgg gcaanaaacc attgtcaagt 540
tctcagatga atacctgaca aaagcagtgg aaagtttnca attgagcttc atgggattgg 600
gaaatatggc aacgactttt tacccgaatt ttttgggcn aatgaagtng gaagcaaggt 660
gcaccctgga gaacccccaa nttaaattna attttcatga cttggctttt gggaaaaaaa 720
ananctgctt nttaaaaaaa aaacttggag ccttttttgaa cttttggggn gtcggnttta 780

cctagatccg gaccttgnta agntncnttg gntggnc 817

<210> 3268
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 3268
gnnnttgttc taatgctngg ctctcgttct ttctgcagga tcccatcgat tcgaattcgg 60
cacgaggata ggccacattc cagtaagaac tcaatttgtc tcccaaattt gcagaaacaa 120
aacgtgattt aaaagctgag ctttttatca gaaagctttt ttgatgtttt aagtgttatg 180
tgacttgttg aacttttaa aaagtgctac ttttaaaatc ccagatactc tgaattttag 240
aaaacaaact aattctgatt gtgtcgtgcc caagtaccct tttttttaa tgaataggga 300
ccaatgccac attgcttttt atatttcttt ctttttaat gttgccaaaa ccaaaagtag 360
ctttgttttc ctttgtattt tgctactttg cagtatttgt gtgtgtggtt ttntttcctt 420
aatttgaaag ggacagnnct gtgtatgttt ataaactaaa tgaagataag atattatntt 480
gtataaacat tcatctgaga acaatcaaag cagtagccac atggtgctgg ctcctttgca 540
gcacaaacct ggtcattttg atgactgtca acaggaagac ttgaaaaatc acgtggattc 600
atattaccac cgctctcatt tcatggagtc ttctgatcaa aaaaaagctc acgtcgtatt 660
tcttctttnc tttctctttt ctaagaaaat tgggtgttnt gaccagaatg ggaattttgc 720
ttccn 725

<210> 3269
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3269
gntttgaann ccctttngnt tcanatnctt gtttgangcc cttntnnagg accccatcgn 60
ttcgaattcg gcacgaggct atttgaagta cctgtaacaa aacagttggc cctctgtttc 120
catgtactct gcatctgtgg attaaaccaa ttgcagatca aaaatattag aaaaaataaa 180
aataatacaa ataaaaatac agtatnncca gttatttaaa tagcatttac attgcattag 240
gtattagtct agggataaag tatacaggcg gatgtgcgtt ggttatatac aaatatgtca 300
ttttatgtaa gggacttgag tatacttgga tttttggtat ctgtgggttg gggggacggt 360
ccaggaacca ataccccatg gataccaagg gacaactgta cttatttacc tttattgtca 420
ttgcaagctt cttatggaaa ctttatagga atgaaaatat acatgttaag aagattaaac 480
attagatagt agatggtttg ttgcatgcta gaactgttag tattgttgaa tcaattactt 540
tggtttcatg aaaaaataaa cgataaatat ctttaaagag aactagaaga atttttgtt 600
tgagtnattc cangctgnag tatgatcntt tactgaagta gtttgattgg ctggctaaac 660
ttanaattat tggtttcttg gtttgtanct gccantaggg gttantaatt gtaangataa 720
aaatggtntg tgtggnttaa agggaaatta ggtggnggtt aaaaatcttg ggaaaatttt 780
ccgaac 786

<210> 3270
<211> 784
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3270
tttcaaatcc ttgttnacgc cctttntnan ggacccctcg nttcgaattc ggcacgaggt 60
tttgttctct tctttgacta ttaaaaagct cagtgcctna tatttctaac atatggcaag 120
tgtttctgtg taccttacaa gtctatatat aaatttttct tctcttgaca gggttntatc 180
tatatnnccc aagtnacccc taattctttt agaataaggc agaaaataaa tcaacgtaaa 240
ggttgagacc aagccagaga cagctggcca aagtagctgg ttcagggata taacctgcaa 300
gttgccaacc cagcgcattc ttctcaccct tcttccaccc tacgaaaggc catatcttac 360
aagagatgct ggtaaatgcc anacattcac tgngtnaggc ttnctcacan ctagcagtgg 420
catgagatca gttcaatcca atgacactga aatggaactc tccaagtgag tttctgcaaa 480
agacttctct gttaacaggg agttnttaag ggaaatattg caccttcctt tcccctgctt 540
tttcaatcna ngcatgatgt cnggtgctac cngnaaccca tactgcnaan catgagggca 600
aatgagcctg ngggaattta aanctntaac actaattnaa gangaaaaaa gatgcagaan 660
cctngatcct tantggncca tnatttaanc cccttggacc cacttttga aaccagncct 720
ctanaaccta tnngtgagtc nnntttactn ggatcccnta actngataag aanccnttgn 780
ntcc 784

<210> 3271
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3271
caaatcnntt gctctngttc tttttgcagg atcccatcga ttcgcgacag ctctccaata 60
ctcaggttaa tgctgaaaaa tcatccaaga cagttattgc aagagtttaa tttttgaaaa 120
ctggctactg ctctgtgttt acagacgtgt gcagttgtag gcatgtagct acaggacatt 180
tntannggcc caggatcgtt ttttcccagg gcaagcagaa gagaaaatgt tgtatatgtc 240
ttttacccgg cacattcccc ttgcctaaat acaagggctg gagtctgcac gggacctatt 300
agagtatttt ccacaatgat gatgatttca gcagggatga cgtcatcatc acattcaggg 360
ctatttttc cccacaaacc caagggcagg ggccactctt agctaaatcc ctccccgtga 420
ctgcaataga accctctggg gagctcagga aggggtgtgc tgagttctat aatataagct 480
gccatatatt ttgtagacaa gtatggctcc tccgtatctc cctcttccct aggagaggag 540
tgtgaagcaa ggagcttaga taagacaccc cctcaaaccc attccctctt caggagacct 600
acccttcaca ggcacangtc ccccaaatga gaagtctgnt acccctcatt tcttnatctt 660
tttacttaaa ctcaagaggc agtgacaggn agtcaggggc aagacattac atttttcata 720
ctttcccaca tctgaaaaga tgacagggga aactgcaaag cc 762

<210> 3272
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)

<223> n = A,T,C or G

<400> 3272
ccttttctaa tgcttggcat ttnaatcctt gttgatccct cgatttnaat tcggcacgag 60
gcactgcgtc aagccactcc tggagaagaa tgatgtggag aaagtggtgg tggtgatttt 120
ggataaagag caccgcccag tggagaaatt cgtctttgag atcacccagc ctccactgct 180
gtccatcagc tcagactccn tgttgnctca tgtggagcag ctgctccggg ccttcatcct 240
gaagatcagc gtgtgcgatg ccgtcctgga ccacaacccc ccaggctgta ccttcacagt 300
cctggtgcac acgagagaag ccgccactcg caacatggag aagatccagg tcatcaagga 360
tttcccctgg atcctggcgg atgagcagga tgtccacatg catgaccccc ggctgatacc 420
actaaaaacc atgacgtcgg acattttaaa gatgcagctt tacgtggaag agcgcgctca 480
taaaggcagc tgaaggggca cctgcacccc actgatgccc aaactgtcag actttggggg 540
atccccgcct tagggcagtg ctgcatggct gccctgattc caaagtgctc ttatcgcctc 600
tgtgtgtggg atcgcccgcc ccaaccccgg ggccgcttna gtcttgcttg gnaggatgcc 660
ttcccccagg anggcagtga ngggatgccg caacctngac ttnttannct cctggggttt 720
ccgccgggcn aaaactggct gncttaaata ctgggcttgg nagttgtttc aataaaaggc 780

<210> 3273
<211> 926
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(926)
<223> n = A,T,C or G

<400> 3273
gnnnnntttn tanncccttt tcnaatnctt ggaatttgac ntcgttgtnt gatcccatcg 60
attcgaattc ggcacgagag aagttctagc acatcttaat tnccttnata gtttaattga 120
tgaagagcat tgntgaagag ttaggaggtc tccctttgtc ctacattntc cgnttttttа 180
gaatgagaag atgagaacga cctccagttc acatgacggc tgcngngagg atccagtang 240
ggagatacag tgctcagcac caagcatgtg caagtgagca caatccaatt ttacatcatg 300
ttacccctcc aggacagttg ctttgacgtg gaaggtatag agggagttga aagganggtt 360
tgcatggttg gcagangtgc cctgcagcct tcctntncaa gctgnaancc gtttntgncc 420
ncctggaanc ngttggaaag tgtgtggtat ggnatgaaga tcccattttg actctgttcn 480
tgatcttgnt tactnaagtg anccttgttc nttgacngta ttggatgatn cattgatcct 540
anctatccct taactggtcg ggtgntgctn cngggggaca ttgnttttтn nncaatttcc 600
aatgcatncc ttnnngnanc tntttcctgt cacanccanc caattnaatt natancctgt 660
gnattngaan ccnaanttcc cagggccgtn ngntagtctn tntaaaanng ggntcaanta 720
aantttnnnt atgangccnt tngtataann ttttntaacc atnggnntnt atgncnantt 780
ncaacctgng gttnctcttn ataactnggc nnttttgtaa attcnngntn tnntntgata 840
atntacnttn ttttctttna tnagnggctt tatntcaaan taatccncga atanntaata 900
taattgttct atnnatgnna ncngcc 926

<210> 3274
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3274

aggnnnnttg taannccnta ctgaaatcct ttgnatcncc tcnttgtttg acccattnat 60
tcgggccggt tattctctct ttacagatag ctatagacat cattttagga agtgttgcag 120
tctggcattt gtgctattgt tcattctctg tgaaggctgt tcatagttgc tatagcctgt 180
gtttagtttt gtgatttcat caatcccatc tttccgcgng antaatgcat tctaaacatc 240
ctaccccact ttagaaacgg acgtggggaa cgcttggtca tttaagccaa caataaattt 300
aggtgaatgt ccctaagtgt ttactgnttt tatccagtca aggatttgct tttccttgaa 360
catttgtttt aaattctggg gccaaaatgc aaaggagaag ttctattcaa aggcagtagt 420
tgaaatctat tattttagtt agcctacttg gcatttacta catcggtcac ttctccaggc 480
tgccctaaat taggttgatg gagtgagaca tgccaaacat tcacctttgg gaccatagca 540
tagttaaaat taaatgtagt tggaatagct agcattgcag ctacagtagg ggaactgtag 600
tctanttccc ctcagaaaaa cccaaggagt tgaanggaca ggattttgnc tangcnaaaa 660
atctaagact cgtgcccttc tggtacatng gggttttaag actggaatgt gtaataggag 720
cactgccttt gcccaatcna atgantgaca ggttaactnn gaaaatggga caatcacatt 780
tccncttac 789

<210> 3275
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 3275
gnnnnnnnng tnnnnnttta aaancccttt tcaaatnnct tggcattgaa tccttgcaga 60
tcccatcgat tcgaattcgg cacgagtatc agacaatatt ttattatttt ttcatagatg 120
ttctgccaca caaagaactt ggggtgtaag gataaggcaa aagctccaat cccatttttc 180
agttctccta ggatgcaccc ctcagggagc ctggccagag ttccgnngcc cgtgagcgtc 240
agctgttgct ttattttcca tcaaagccct ctgagaagtg agacctcagc aattccggga 300
gccacataga gacagacttg gcaagggacc ccctggntct gagccagtag ctgccatctg 360
gaaattcctc ttttagcctc tccttagagg tgaatgtgaa tgaagcctcc aggcacccgc 420
tgaatttctg aggccttgct taaagctcag aagtggttta ggcatttgga aaatctggtt 480
cacatcataa agaacttgat ttgaaatgtt tttctataga aacaagtgct aaagtgtacc 540
gnattatact tgatgttggt catttctcaa gtcctatttc tcagntctat nattntagaa 600
cctangtcag ttctttaagn attataactg gnnctacatt aaaaaaatgc ttctcgaaaa 660
aaaaaaanna tnnnantaca aannaaaaan cttcgaccct ttaaaacctt ttggggngcn 720
gatttacctn ngaancccga cctgatnaga aancentggt taaagtntgg anaaacccca 780
cctnnaaagg cnagggnaaa aaaaagcccn tttc 814

<210> 3276
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3276
gnnnnnnttt nnnnnnnngt ttcnaatnct tggcattgat ccnttgnttg atcccttnat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240

ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420
ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaatangg 480
gaaactattc agagaaaact taagccacta agttttatgg ngntttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcaggcc 600
agcatttttt tcttgaaaac ctggagcatg tattccatct tatagcagag atcactttca 660
caatggttgg ggctcttgga tttggaatgg atgatgtaat gaagccctct tntncagatt 720
ggnaactaat tactcttggg gaattgactn ggattccaca ccccttctta anaattntac 780
ttttnctctt tttatcaaac 800

<210> 3277
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 3277
ngnnnnnttt ttnnnnccgg tttgaaatcc ctttgaattt gnaatcgttg gtgatcccat 60
cgattcgaga aatcggaaca aaagtagaag ttgtggaaag gaaagaacat ttgcatactg 120
acattttaaa acgtggctct gaaatggaca acaactgctc accaaccagg aaagacttca 180
ctgaagatac catcccacga acacaggata gaaagaanga ancccegcct gtatttttcc 240
agcaaatata acaaagaagc tcttagcccc ccacgacgta aagcctttaa gaaatggaca 300
cctnctcggt caccttttaa tctcgttcaa gaaacacttt ttcatgatcc atggaagctt 360
ctcatcgcta ctatatttct caatcggacc tcaggcaaaa tggcaatacc tgtgctttgg 420
aagtttctgg agaaagtatc cttcagctga ggtagcaaga accgcagact ggagagatgt 480
gtcagaactt cttaaacctc ttggtctcta cgatcttcgg gcaanaaacc attgtcaagt 540
tctcagatga atacctgaca aaagcagtgg aaagtttnca attgagcttc atgggattgg 600
gaaatatggc aacgactttt tacccgaatt ttttggggcn aatgaagtng gaagcaaggt 660
gcaccctgga gaacccccaa nttaaattna attttcatga cttggctttt gggaaaaaaa 720
ananctgctt nttaaaaaaa aaacttggag ccttttttgaa cttttggggn gtcggnttta 780
cctagatccg gaccttgnta agntncnttg gntggnc 817

<210> 3278
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3278
gnnnnnnttt gaaancccct tcnaatnctt ggcattgntc tctttgcagg atccctcgat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240
ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420
ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaataggg 480

gaaactattc agagaaaact taagccacta agttttatgg tgttttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcangcc 600
agcatttttt ccttgaaaac ctggagcatg tatccatctt atagcagaga tcactttcac 660
aatggttggg ctcttggatt tgaattgatg atgtaatgag ccctctttnc ngattgnaac 720
ttaattactc tgggnatttg ntggattccc aaccttctaa tatttacttt tcctctttan 780
taanc 785

<210> 3279
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3279
gnnnnnnttt gaaanccctt tcnaatnctt ggcattgntc tctttgcagg atccctcgat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240
ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420
ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaataggg 480
gaaactattc agagaaaact taagccacta agttttatgg tgttttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcangcc 600
agcatttttt ccttgaaaac ctggagcatg tatccatctt atagcagaga tcactttcac 660
aatggttggg ctcttggatt tgaattgatg atgtaatgag ccctctttnc ngattgnaac 720
ttaattactc tgggnatttg ntggattccc aaccttctaa tatttacttt tcctctttan 780
taanc 785

<210> 3280
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3280
gnnnnnnttt gaaanccctt tcnaatnctt ggcattgntc tctttgcagg atccctcgat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240
ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420
ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaataggg 480
gaaactattc agagaaaact taagccacta agttttatgg tgttttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcangcc 600
agcatttttt ccttgaaaac ctggagcatg tatccatctt atagcagaga tcactttcac 660
aatggttggg ctcttggatt tgaattgatg atgtaatgag ccctctttnc ngattgnaac 720

ttaattactc tgggnatttg ntggattccc aaccttctaa tatttacttt tcctctttan 780
taanc 785

<210> 3281
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3281
gnnnnnnttt nnnnnnnngt ttcnaatnct tggcattgat ccnttgnttg atcccttnat 60
tcgctgacaa cttgattggg ttctccttca ggtttgaagc gccctcgaga agtgtctaaa 120
ggagacagtt gatagccaaa caacagtttt ggattcactg actgattatg aaagaagcag 180
tagactggta tcaagaatca gtcagcaagg aggccctcac cagacgccag tgccatgttc 240
ttggacttct cagcctccat attcatgaac taagtttttg gaatccttag gcttccacgt 300
gtggaaagcc tgagctaacc tactggagga tgagccatca cctggagcag attcaggcca 360
tcctagttga agcctcccta ggccaagcaa ccgtccaact accagacatt gaccattcag 420
ccttgaacat tcagcacaaa gacaaaacag accagaccag aagagtccca cagaatangg 480
gaaactattc agagaaaact taagccacta agttttatgg ngntttgttc tgtagcagaa 540
gcataggcat actgacaata caaaccgaaa tccttctaac gtagtggacc ttttcaggcc 600
agcatttttt tcttgaaaac ctggagcatg tattccatct tatagcagag atcactttca 660
caatggttgg ggctcttgga tttggaatgg atgatgtaat gaagccctct tntncagatt 720
ggnaactaat tactcttggg gaattgactn ggattccaca ccccttctta anaattntac 780
ttttnctctt tttatcaaac 800

<210> 3282
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 3282
ttctaatngc ttggttactc gcctttctgt aggatcccat cgattcgaat tcggcacgag 60
gcaagccagg agtgctggca caggcctgtn gtcgcancta ctcnggaggc tnacgccgga 120
ggatcgcttg agcccancag gtcaaggcta cantnagccg tgatcatgcc actgcactnc 180
aaactgngng acacagngag accctgtctn ttaacaacan ancccatgag cggcangccc 240
cccagtctgg atggtggtaa agaatcctta agatcaaacc cacgcagtgc ttaaagcttg 300
gcctgattct agggctgggg ctggacaaac tgctanagat natgccgata gccngtgtga 360
tccccctgnc ctgatngtna anggcatagt gcagantgga acccctttccc tccccaaaan 420
attcagacct gnngggctga gtgggcctta ttgagtcccc aaagttctga gaanctnggt 480
ntctggcttt tagccttcag ctttcttagg ttntgatgca atnagttgng ttcccctgcc 540
cttttcttgc catgcacttn cgaangaang gtttncnggg ttgcntggga ancnttnccc 600
naacngcctn ttanccaccn naagnttttn nngaatcanc acttccctnn gggggggaat 660
acttttaaat nccggaagnc ctttnaacnc ccttgggntc cttcccccnga ntacccaagc 720
ttnaaatcca aaattaccgg natcnttagg gctttgtagc ntntgggttn ggntttgcnt 780
nttttttctt aanctttntt tnaataaacc aatttcttnt gnnacncc 828

<210> 3283

<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(898)
<223> n = A,T,C or G

<400> 3283
ttgtannnct tttctnatag cttggtcttg actccttgtt gatcccttnt ncnaattcgg 60
cacgngatta cctncaaatc tcaaggcggc cttgaacatt gagaaagaac taccaaagcn 120
tagacacgtt ttcagaagga agacagcctc ctccaggagc atcttacccg acctcttgtc 180
accgtaccaa atggcgatcc gagcnanccg actggangag agccgagcgg cggcgctccg 240
agagctccag gagaagcagg ctctgatgga gcagcagaga cgagagaaaa gggcactgca 300
ggagtggaga gagcgagccc agaggatgag gaagaggaag gaagagctca gcaaactcct 360
gcctccgcgg aggancatgg tggcatcaaa gattcctctg ccacanatct gatagataac 420
aggaaagttc cactgaatcc gcctggaaaa atgaaaccaa gcaaagagaa atcgccacan 480
gcaagtaang aaatgagtgc cctgcangag agaaatttag nagagaagat tnaacagacc 540
gttcttcaaa tgcgtttagc cnangaagan ttccttgggc tatgccccca cttggtaagg 600
aanattnatn naaaaggctt nncctnangg gnttctgggg aaaatttggc ccaccantat 660
gnttnncntg ggnatttgaa aaantatttt tgganaaagc cttaaanaat tttgggggga 720
atttaaaccc tttggtaacc caataggtat ttggtatnta actgggggtn ggngnncctt 780
tnacttgggg aaaacntttt tccctttggg cccttngccc tgtcagcnac naatgctttn 840
taaaaattnc cttttatttt taacctcnan atattttggg ttaaatattt angnancc 898

<210> 3284
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3284
nctaatgctg ggctctcgtt ctttccgcag gancccatcg attcgaaaaa ttgtgatgta 60
agtggtacag tggggagaat ttagggctct cagaatgcag aaaactagcc acctccagtt 120
ctgtgcctga ccaccatctg actttggata aatcccttct gctctcccac ctagctttat 180
catttgtaaa atgagtctct aggtacagcc ctttctgggg ttgagacaga gtttctgagg 240
agtaaaagcc atgtcattgt ggaaacaggc agctattctc acagctggca tgagcccact 300
actcccctat aatcagtgct gataaactgc tctcatttgt tggacttcag actttcctga 360
cccactttga atgggggcca ctttgaatgg aaactttcta tgtattgaat taaaagatct 420
ccaagataaa tggttaaatg aaaaagcaca gtgcaaaatg gtgcatatga tatcctacct 480
tttgggtaaa ataaaaaaaa aaaaaaaaaa aaaaaactcg agcctctaga actatagtga 540
gtcgtattac gtagatccag acatgataag atacattgat gagtttggac aaaccacaac 600
tagaatgcag tgaaaaaaat gctttatttg tgaaatttgt gatgctattg ctttatttgt 660
aaccattata agctgcaata aacaagttaa caacaacaat tgcat 705

<210> 3285
<211> 701
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(701)
<223> n = A,T,C or G

<400> 3285
gnngnnctaa tgctggctac ttgttctttt ngcaggatcc catcgattcg aattcggcac 60
gagtttacat tttgtttgaa tcaggatcca aataaggttt aaatattgca atttgattaa 120
tacattaaga ttctttttaat ctataagttc ctgctccatc tgtcatttta tttttatccc 180
ttgaaattta tttattgaag aaactatatc ctttgctttg taaaattttc cacagtgtgg 240
ctggctttgg ctgattgcta gcgtcatttg ctatttattt ttgtcctgta tcttggatct 300
ggcgccttga tcagatttaa gttgattttt ggggacgtaa ttacttcata ggtattatgc 360
atttttggat agaggagtaa agtagtgaaa gtaatgtttt taggatggtt tgtctggcag 420
cagtgtgcaa aatgaattgg tagaggagaa atggagagct gcgaattaga aggcaggttc 480
aatcagtgca ggaaggaaag gctacagtaa ggcagaggca gggaaaagaa aggcaataga 540
gatgagagag attttgaaag aaggaatttt caataccttt taggcttaac tataagaaat 600
ggagagtcgg ctgggcatgg tggctcatgc ctgtaatccc agcactttgg aaggccaagg 660
ccagtggatc acctgaggtc aggagttcaa gaccaacctg c 701

<210> 3286
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3286
actaatggtg ngtngctcgt ncttccgcag ganccnngcg ntgtcgaatt cggcacgaga 60
ttatatttga ttttgcatta ctgtttcaca atgaagcttt ctttaaggct ttgattttta 120
tgattatgaa agaaataagg cacaaccaca gtttttcttt cttaaatttc atcactgttg 180
atgtggttct tttgtgttaa aaaaaaaaag tgcaactatc aaaactaaaa aattatagag 240
taatattgcc gttctgctga ttttaaatat acaatacatc atacatactt tacaagcaag 300
ttaaatggag ataaagttga aatcatagaa gatgcaaatg acctttcaaa atcaacacaa 360
tgtgttctga aactttcgtg actaatacca tgcatctgtg atcaatgaac tatgtggttt 420
tgaatcggat gtagaccatt agtactacta cttgagctaa acttctgcat ggttcataat 480
ttttaaagtg tgtagttaat atgcatgtta tcgtcctttc ttccattctt aacagtatgt 540
gcccatttgc aaaacaaaaa tgctaataat cagtaatagt cctataaaag atgttaactc 600
tgtttagtca ttgactgatc ttgctctaac cttaaaattt tgtgattatt gacctctgtt 660
gcatttattc taaagccccc caaaaattat ctagccgttt cgaag 705

<210> 3287
<211> 700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(700)
<223> n = A,T,C or G

<400> 3287
nctaatgctg gctatngttc tttntgcang atcccatcga ttcgaattcg gcacgagcca 60
agcgcagccg attctgcccc ctacgattgg ttcggggact tctcctcctt ccgtgccctc 120
ctagagccgg agctgcggcc cgaggaccgt atccttgtgc taggttgcgg gaacagtgcc 180

ctgagctacg agctgttcct cggaggcttc cctaatgtga ccagtgtgga ctactcatca 240
gtcgtggtgg ctgccatgca ggctcgctat gcccatgtgc cgcagctgcg ctgggagacc 300
atggatgtgc ggaagctgga cttccccagt gcttcttttg atgtggtgct cgagaagggc 360
acgctggatg ccctgctggc tggggaacga gatccctgga ccgtgtcctc tgaaggtgtc 420
cacactgtgg accaggtgtt gagtgaggtg agccgcgtgc ttgtccctgg aggccggttt 480
atctcaatga cttctgctgc cccccacttt cggaccagac actatgccca agcctattat 540
ggctggtccc tgaggcatgc tacctatggc agcggtttcc acttccatct ctacctcatg 600
cacaagggcg ggaagctcag tgtggcccag ctggctctgg gggcccaaat cctctcaccc 660
cccagacctn ccacctcacc ttgcttcctt caggactcaa 700

<210> 3288
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3288
gtacaatgcn ggnngctcgt tctttccgca ggatcccncg atgcgaattc ngcccgagca 60
gagctgtgat ctgcccccag gtattctgac ccccaaactg gctctcaacc atgtttacat 120
gatgaaaaga agaggtgact gttgtatcag ctctaaaggc ctcacttttg gtgaaatggg 180
acctaaattt gattgcatac ttgattactt gctgtcaata ctgaaattgg cacttcataa 240
ttttaatact attgaacttt caccataacc ctgtcctata aagttgactt gcaaatgaag 300
aaactctatc tcttcaatat tataaaatat atccaagagt cacaactagt gagaaaagga 360
caggatctaa ctaacaatgt gaggctgtgt cttcacacca attcaacaga gtatcttgta 420
aatgttgaga ggagaggtac tttaggtcat gggtgtcttt caataagtgc tttagaaaac 480
aggtgacaac tgattgggcc ttgaggtatg aatggattta gccaggcaat taaataggaa 540
agcagatact caagacagat taaaacagct tgagagaagt gaaatgagca agtgtaagac 600
aattgatact gtccatggat tttagaaagt gtgaagtgga gtgattgtga tgaagcttga 660
aagattgcct ggggccaggc tgttgaangc ttggtttgct tant 704

<210> 3289
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3289
gtacaatgcn ggnngctcgt tctttccgca ggatcccncg atgcgaattc ngcccgagca 60
gagctgtgat ctgcccccag gtattctgac ccccaaactg gctctcaacc atgtttacat 120
gatgaaaaga agaggtgact gttgtatcag ctctaaaggc ctcacttttg gtgaaatggg 180
acctaaattt gattgcatac ttgattactt gctgtcaata ctgaaattgg cacttcataa 240
ttttaatact attgaacttt caccataacc ctgtcctata aagttgactt gcaaatgaag 300
aaactctatc tcttcaatat tataaaatat atccaagagt cacaactagt gagaaaagga 360
caggatctaa ctaacaatgt gaggctgtgt cttcacacca attcaacaga gtatcttgta 420
aatgttgaga ggagaggtac tttaggtcat gggtgtcttt caataagtgc tttagaaaac 480
aggtgacaac tgattgggcc ttgaggtatg aatggattta gccaggcaat taaataggaa 540
agcagatact caagacagat taaaacagct tgagagaagt gaaatgagca agtgtaagac 600
aattgatact gtccatggat tttagaaagt gtgaagtgga gtgattgtga tgaagcttga 660

aagattgcct ggggccaggc tgttgaangc ttggtttgct tant 704

<210> 3290
<211> 700
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(700)
<223> n = A,T,C or G

<400> 3290
ctaatgctgg ctctngttct ttcngcagga cccatcgatt cgcagagatc aaacaattgt 60
agatcccttc agttcaaaac ataatgtgat tgtgggcaga aatggatctg gaaaaagtaa 120
ctttttttat gcaattcagt ttgttctcag tgatgagttt agtcatcttc gtccagaaca 180
gcggttggct ttattgcatg aaggtactgg tcctcgtgtt atttctgctt ttgtggagat 240
tatttttgat aattcagaca accggttacc aatcgataaa gaggaagttt cacttcgaag 300
agttattggt gccaaaaagg atcagtattt cttagacaag aagatggtca cgaaaaatga 360
tgtgatgaac ctccttgaaa gcgctggttt ttctcgaagc aatccttatt atattgttaa 420
acaaggaaag atcaaccaga tggcaacagc accagattct cagagattaa agctattaag 480
agaagtagct ggtactagag tgtatgacga acgaaaggaa gaaagcatct ccttaatgaa 540
agaaacagag ggcaaacggg aaaaaatcaa tgagttgtta aaatacattg aagagagatt 600
acatactcta gaggaagaaa aggaagaact agctcagtat cagaagtggg ataaaatgag 660
acgagccctg gaatatacca tttacaatca ggaacttaac 700

<210> 3291
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3291
ctaatgctgg ctctcgttct ttctgcagga tcccatcgat tcgcactggg ttccaagttg 60
ctttgctgaa taaggatttg aagccacaga catttagaaa tgcttatgac ataccaagac 120
gaaatctttt ggatcactta acaagaatga gatctaatct tttgaagagc actcgcagat 180
ttctgaaagg acaggacgaa gatcaagtgc acagtgttcc tatagcacaa atggggaact 240
accaggaata cctcaagcaa gtaccttctc cactaagaga acttgatcct gatcagccac 300
gaaggttgca tacatttggc aacccccttta agctggataa gaagggtatg atgatagatg 360
aagcagatga atttgtggct ggacctcaaa ataaacataa acgacccgga gaaccaaata 420
tgcaagggat ccctaaaaga cgtcggtgta tgtctccact actaagaggc agacagcaga 480
atcctgttgt aaacaatcat attgggggaa aaggaccacc tgcacctaca actcaagcac 540
agccagatct tattaaacct cttcctcttc ataaaatttc agaaaccact aatgattcga 600
taatacatga tgtggttgaa aatcatgttg cagaccaact ttcatcagac attacaccaa 660
atgctatgga tacggaattt tcagcatctt ctncagccag ttag 704

<210> 3292
<211> 701
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(701)
<223> n = A,T,C or G

<400> 3292
ctaatgctgg ctnttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagccca 60
catgtaccag gttgagtttg aagatggatc ccagatagca atgaagagag aggacatcta 120
cactttagat gaagagttac ccaagagagt gaaagctcga ttttccacag cctctgacat 180
gcgatttgaa gacacgtttt atggagcaga cattatccaa ggggagagaa agagacaaag 240
agtgctgagc tccaggttta agaatgaata tgtggccgac cctgtatacc gcacttttt 300
gaagagctct ttccagaaga agtgccagaa gagacagtag tctgcataca tcgctgcagg 360
ccacagagca gcttgggttg gaagagagaa gatgaaggga catccttggg gctgtgccgt 420
gagttttgct ggcataggtg acagggtgtg tctctgacag tggtaaatcg ggtttccaga 480
gtttggtcac caaaaataca aaatacaccc aatgaattgg acgcagcaat ctgaaatcat 540
ctctagtctt gctttcactt gtgagcagtt gtcttctatg atcccaaaga agttttctaa 600
gtgaaaggaa atactagtga atcacccaca aggaaaagcc actgccacag aggaggcggg 660
tccccttgtg cggcttangg ccctgtcagg aaacacacgg g 701

<210> 3293
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3293
nctaatgctg ggctctcgtt ctttccgcag gancccatcg attcgaaaaa ttgtgatgta 60
agtggtacag tggggagaat ttagggctct cagaatgcag aaaactagcc acctccagtt 120
ctgtgcctga ccaccatctg actttggata aatcccttct gctctcccac ctagctttat 180
catttgtaaa atgagtctct aggtacagcc ctttctgggg ttgagacaga gtttctgagg 240
agtaaaagcc atgtcattgt ggaaacaggc agctattctc acagctggca tgagcccact 300
actcccctat aatcagtgct gataaactgc tctcatttgt tggacttcag actttcctga 360
cccactttga atgggggcca ctttgaatgg aaactttcta tgtattgaat taaaagatct 420
ccaagataaa tggttaaatg aaaaagcaca gtgcaaaatg gtgcatatga tatcctacct 480
tttgggtaaa ataaaaaaaa aaaaaaaaaa aaaaaactcg agcctctaga actatagtga 540
gtcgtattac gtagatccag acatgataag atacattgat gagtttggac aaaccacaac 600
tagaatgcag tgaaaaaaat gctttatttg tgaaatttgt gatgctattg ctttatttgt 660
aaccattata agctgcaata aacaagttaa caacaacaat tgcat 705

<210> 3294
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3294
gnnnctaatg gcngggctct cgttctttct cgcaggatcc cnncgattcg aattcggcac 60
gagctctatc ttgtttattg ttgatgccat cttagaggaa aaaatgtaaa ggtaagtaat 120
taagcatatg acagcaacaa ataagatact tataacctaa tgggacttta ttttgtagtt 180

ttatgtatta caaaaaatcc acctttctct aaggggaagt ttgtacccca ttgattcttg 240
gtgcctttgg gatcgactgg gttttaatgg cctagttatt tgaggatttt gctgtgttgt 300
tttccatgtc ttctctggtc accttggatt atatataaaa atacaggaaa tagataaaca 360
tgaatgtgat taataatgct gaaaaagtat tagcctacca aagacacact caggctttag 420
tgaataactt tacataacct cagtttttaa cacatgcata tcttctccaa ccatgaaatc 480
aaagcacggt gcagaacttg taccaagtac aaaaggtcca tgtatgatta gcattatttt 540
cttttgcttt tgtttatgga caatgttcag ctgacataag cagaagttgg ccaaaatact 600
gcctgtactg ttaatttcct gtataattca cttaaataaa agcaggttaa cctcaatgat 660
agcagttaaa atgttctatc ttatgtattt cttttaagta ttaccattan 710

<210> 3295
<211> 1073
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1073)
<223> n = A,T,C or G

<400> 3295
ttnactnatc gcttggcttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ggtaaagagc aagtaatgag cttgtccgtc agctggtagc tttcattcgt aaaagagata 120
aaagagtgca ggcgcatcga aaacttgtgg aagaacagaa tgcagagaag gcgaggaaag 180
ccgaagagat gaggcggcag cagaagctaa agcaggccaa actggtggag cantncatat 240
annanntctg gtcgnctntn gnctntttgt ttantcnnat ccntcccccc nccnctcntc 300
tnntccnccc tcttatnact tcnttnttcc ntctttnttc tntnccccte tccncttnna 360
tcttccnntt ntnnttntcc ntcccttctc ncncctnctc ttctctcntt cctcttcatt 420
ctntccnctc ccttctctct ttcactctcn tcncttctct tctctattct cttcnntcnn 480
tntcttctcc tatccactna cntcctntct ctctcatccn atctcatnnc tctctctcat 540
ncntanntct tctctccact ttctctctac natntctcnc tactctctna tcananacct 600
cttntccntc ttctatcnct ctctactnct ctctctctct tactatctct ctntctnttc 660
tttcctctnc ntcntctcac ttcntactnt tatttctctn nttctcatca gtctcttnct 720
atctctttct ctncngttta ctntctncat ctcntatctc tnctatntct ccttctctct 780
cctcctatnt ctanatcatn tctcntncat ctnantctct ccctttcatc cgtctcnacc 840
aantnctttnt acntgcntcc tcnccnnctc ttcnttttca tattctctct ctcttcnttn 900
ttctnactct ctccctctct ctctnttcct actgcntgct tctncactnn ctccttanct 960
acanccatna ctcacctcat ctcatctcct cnnctcnctc tctctcncat ntntttctct 1020
nctttntatc catcnttcnt cntncctctt ctctcacact acttntctct nnt 1073

<210> 3296
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3296
ctaatggctg gnngctcgtt ctttccgcaa cancccngcg antcgaattc ggcacgaggt 60
ccgaagaaaa agactgtggt ggcggagatg ctctctccaa tggcatcaag aaacacagaa 120
caagtttgcc ttctcctatg ttttccagaa atgacttcag tatctggagc atcctcagaa 180
aatgtattgg aatggaacta tccaagatca cgatgccagt tatatttaat gagcctctga 240
gcttcctaca gcgcctaact gaatacatgg agcatactta cctcatccac aaggccagtt 300

cactctctga tcctgtggaa aggatgcagt gtgtagctgc gtttgctgta tctgctgttg 360
cttctcagtg ggaacggact ggaaaacctt tcaacccact gctgggagag acttatgaat 420
tagtgcgaga tgaccttgga tttagactca tctccgaaca ggtcagccat cacccaccaa 480
tcagtgcatt tcatgctgaa ggattaaaca atgacttcat ctttcatggc tctatctatc 540
ccaaactgaa attctggggg aagagtgtag aagcagaacc caaaggaacc atcaccttgg 600
agctccttga acacaatgag gcatatacat ggacaaatcc cacctgctgt gtgcataata 660
tcattgtggg taaactgtgg atcgaacagt atggcaatgt ggaaat 706

<210> 3297
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 3297
nctaatgctg ggctactngt tctttntgca gnatcccatc gattcgaatt cggcacgagg 60
acagccccaa tccgggagca ggagggcctc ctgccttggc atatagaccc ctgggcgcct 120
ccctgggatg cccaccaggc ccagggatcc acctaggtgg gtttggcaac cctggtgatg 180
gcagtggtag tggcacatcc tgcctttgca gccagccctc cgtcacacgg actgtgcaga 240
aggatggacc caacaagggg cgccagttcc acacatgtgc caagccgaga gagcagcagt 300
gtggcttttt ccagtgggtc gatgagaaca ccgctccagg gacttctgga gccccgtcct 360
ggacaggaga cagaggaaga accctggagt cggaagccag aagcaaaagg ccccgggcca 420
gttcctcaga catggggtcc acagcaaaga aaccccggaa atgcagcctt tgccaccagc 480
ctggacacac ccgtcccttt tgtcctcaga acagatgagc tcagggtagg gtagagaacg 540
ccactttctc agacctgtcc cctttgtgtt tagaaatgag ttaaccagga ccaagtggcc 600
atttagtgtc ctggaaactt agaggacagt gttggccttt ggagtcgggc cttcttgtgt 660
taaggggcac aaggtccaga tcactctgga gcaggccagc ttctgttgg 709

<210> 3298
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 3298
gtncnaatng ntntgtagat cganntagcc taaacaaatt ggcttgncgc cccttccttc 60
tgtctctgga gacccttgac ttggggaaat atggaggggt gtgtgtctgc aatcaaggcc 120
tctgcagctc acggctggcc cggtgggctg ggacttccgt ctgaatttta aatacttagg 180
gttcattttt ttttctctgg caacaaagct tgatgttttc actgctttag tttcctgttt 240
gctggtggga ggggatacgg tctgtgactc tggacttgct ctgggggaac agttgtcact 300
gccccccgggg agaggggcag cttgggctgg agaagcacag ccagagacag agcccctcga 360
gagggatcct tggctgcttc attgtcttcc ccccagcaag ccctgctctc cacaggcacc 420
tctggggtct tggtatggtc cccgctcacc tccttccaga gtcctgagtg gtgtgggtgt 480
gggtggcaca ggatctgggg catgggangg gtcagagctt ccagagcccc ntgtcctgnc 540
anactcagct ngtgggctgg ngtgttaacc ccagtcctgg cgtangttta cagnctctca 600
aggtacntng nccccctgntc tcctgggana nangnntcnn tnatgatccc taccaaagca 660
catgtnggat naaggctgnc nnntgcnttg nntcganagc cngaagccc 709

<210> 3299
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3299
gtaantaatt anctgnagct cgaantagcc taaacanatt ggctngncga attcggcacg 60
agacccgagg ctcggtgtac taggtgcgaa tgccgccttc tgtggtgacc actgtcttct 120
catcctttgc acctatagga ggtgagtgcc tttggggaag acggcgaggg cgacgacctg 180
gacctatgga cagtgcgctg ctctggacag cactgggagc gtgaggctgc tgtgcgcttc 240
cagcatgtgg gcacctctgt gttcctgtca gtcacgggtg agcagtatgg aagccccatc 300
cgtgggcagc atgaggtcca cggcatgccc agtgccaaca cgcacaatac gtggaaggcc 360
atggaaggca tcttcatcaa gcctagtgtg gagccctctg caggtcacga tgaactctga 420
gtgtgtggat ggatgggtgg atggagggtg gcaggtgggg cgtctgcang gccactcttg 480
gcagagactt tgggtatgta ggggtcctca agtgcctttg ngattaaaga atgttggtct 540
atgaaaaaaa aanntnnccc antcnccaan ncnttctncn nnanctcnnt tnntncntcc 600
antttnncct ntncncccta ntctnccnct acttccnatn naccnataca tccccntcac 660
ttnattaant ccnatnttan antngcncnc tnntcnnacn ntcntctcat acntggtntn 720
atcanttctc tanatcctct ctcnnctctc cgncgctnna ctnctteetn tancactcac 780
cct 783

<210> 3300
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3300
atgctgganc taatnctggc ntctcgttct ttccgcagca cccncgattc gaattcggca 60
cgaggcctgc tgcttcatgc cgccggcgtc ctgctccacg tctctgtgct gctgggccct 120
gcactgtcgg ccctgctgcg agcccacacg ccccctccaca tggctgccct cctcctgctt 180
ccctggctca tgttgctcac aggcagagtg tctctggcac agtttgcctt ggccttcgtg 240
acggacacgt gcgtggcggg tgcgctgctg tgcggggctg ggctgctctt ccatgggatg 300
ctgctgctgc ggggccagac cacatgggag tgggctcggg gccagcactc ctatgacctg 360
ggtccctgcc acaacctgca ggcagccctg gggccccgct gggccctcgt ctggctctgg 420
cccttcctgg cctccccatt gcctggggat gggatcacct tccagaccac agcagatgtg 480
ggacacacag cctcctgact ccaggaagag ccagagctgt gcagggagga aggggtgaga 540
gggggcccc cacacctaga ctcagtaagg aagtcgggtt ggaccttaac atctgcattg 600
gacaactcca ccccttcctt ggccttgccc ctgcccgcct acactcctac gtgtccaggg 660
cttgggcccg tgacttangc agaggagtgc agaggagggt ctggc 705

<210> 3301
<211> 710
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3301
tntctnaatn tgntnncgna tcttgaggac ccatcgttca attccgnncc nagggggnan 60
ctncccntac tccntggatg tgtgtaccta gcacacttcc ttctcccacc ccttttttcca 120
gttggatttg tttttctgtt ctcttctgtc ctgtcttata ctgcaactgt gtctcctagg 180
ggacagatgg ccttctttgt catcttcact ctccaccccc agagaggagt cagagccata 240
actcaatcac tcagcccctc caaagatagt tgatgtgtga taatctcata atgttgagaa 300
ccctgatgag atacattgtc ttcctctccc tacaatgcct ctggggccaa ggcacccatt 360
cttcttgcta tcctccatcc cccttgaggc ttccactttt ttttttttta gacataaagc 420
tgggcatcag caactggcct gtggtgatgc aaagctgctt tgctctgnat ctggctggac 480
tgatctgtct cacaagaagc catgaggcca tagggagaag ctcccctctcc ccttcatctt 540
ctgctccaaa ggtggtanca agaggagtac ccagttaggg gttggagccc ccatatnaca 600
tcttcctgtc agaagactga tggatctttt tcattccaac catctccctt ttccccccgat 660
gaatgcaaat naaacttttg tgacaccagc aacccattgc tctttanaat 710

<210> 3302
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 3302
nnatgctggn nctaatgctg gctactngtt ctttnngcag gacccatcga ttcgaattcg 60
gcacgaggga ctaacttaca gaggagctgt gtatcctgaa gattcagcga ctggcaagga 120
atttccttgg gagcaatgtg tgagggaggc catctgagga gatctgtggc tttcttttgt 180
tgtgggaatc tggcttatgg atgaatctac gacacaggat tgtgaaatta cagctctttg 240
ggaacaaaag gaaggcagta ttgcatgact tagtttccca gcttcacttt ccctttggca 300
tggtgagttt ggggtcttga gagtctattt tctttcacac ccatcagcac tgttaagtaa 360
gcaggaagac aacctgaggt tgtctcttta ctttgagttc ctacataata aattgcagcc 420
taatttagta cataaaccca aacctaattt aggagtaaat tttttgtagc agatagccag 480
atttcagcca atcacaggct tccagctaac aagactatgc ccaaataagg caaatgcctc 540
atcacatgat gctcaaataa ggcagccacc taggcgaggc caatcaggta acttttctac 600
tttgcttaat tgttcagcct gtacaaattt gctgcttatg actgctgagc agagctgtct 660
aaacctcttc tggtttggag tgctgcctta tatatgaatt gttctttgg 709

<210> 3303
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3303
aacgctggnn ctaaatggct ggctatcgtt ctttccgcag nancccntcg attcgaattc 60
ggcacgagct gcgacccctc ggaccagtgc ccgccccagg cccgctggag cagcctgtgg 120
cacgtggggc tcatcctgct ggcggtcctc ctgcttctgc tgtgtggtgt cacagctggt 180

tgtgtccggt tctgctgcct ccggaagcag gcacaggccc agccacatct gccaccagca 240
cggcagccct gcgacgtggc agtcatccct atggacagtg acagccctgt acacagcact 300
gtgacctcct acagctccgt gcagtaccca ctgggcatgc ggttgccccc gccctttggg 360
gagctggacc tggactccat ggctcctcct gcctacagcc tgtacacccc ggagcctcca 420
ccctcctacg atgaagctgt caagatggcc aagcccagag aggaaggacc agcactctcc 480
cagaaaccca gccctctcct tggggcctcg ggcctagaga ccactccagt gccccaggag 540
tcgggcccca atactcaact accaccttgt agccctggtg ccccttgaag gaggtaggag 600
aacggaccag agcttggaga actaatgctt ggagccaagg gccccagccc accccaccgt 660
cccacacatt gctgtggccc caacctcggt gccatgttac accggccccc gg 712

<210> 3304
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 3304
gnanctaatn gcntgggcna ctcgttcttt ccgcagganc cctcgattcg aatcggcacg 60
aggagttttt tgtgatattg aggcattcat acagagctgc agttagacgg ggttacgggg 120
gctaaaagca gaaaaaaaat tccatttcat cgggatggaa ctgaaggatt ttattctata 180
aagcggccct ggttgaatct ggcaattctt tttgccaaga tccctagcag aagatttagc 240
catgtccttc ccctcacttg tgtgagtggc cccttctgaa tctctccagc agccagaggc 300
acgtgagaag cagaaagagc tggtaaataa agccttgggc aagcgacttc ttagatcaga 360
actcaccaaa tggaagccta gcagctgctc cataaaccta gccccattct tcatatcaat 420
tttgtataaa tatatagaaa cacacacaca gcctcagact tacaaactga ttatactcta 480
aaagtttgta tgtcagttag ctaaaacttc agaatacatt tctccctata aagagttata 540
aatgatggtt tagttctcag gcagctacaa atgcctattt attccctaat gtacctgaac 600
actagtacca tagaactgaa ccaccatctg tatcagcgca tggggagtgt gcattctgag 660
gtctaacccg gggtgccagg aacacacaca tcctccatcc cagcata 707

<210> 3305
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 3305
gnanctaatn gcntgggcna ctcgttcttt ccgcagganc cctcgattcg aatcggcacg 60
aggagttttt tgtgatattg aggcattcat acagagctgc agttagacgg ggttacgggg 120
gctaaaagca gaaaaaaaat tccatttcat cgggatggaa ctgaaggatt ttattctata 180
aagcggccct ggttgaatct ggcaattctt tttgccaaga tccctagcag aagatttagc 240
catgtccttc ccctcacttg tgtgagtggc cccttctgaa tctctccagc agccagaggc 300
acgtgagaag cagaaagagc tggtaaataa agccttgggc aagcgacttc ttagatcaga 360
actcaccaaa tggaagccta gcagctgctc cataaaccta gccccattct tcatatcaat 420
tttgtataaa tatatagaaa cacacacaca gcctcagact tacaaactga ttatactcta 480
aaagtttgta tgtcagttag ctaaaacttc agaatacatt tctccctata aagagttata 540
aatgatggtt tagttctcag gcagctacaa atgcctattt attccctaat gtacctgaac 600
actagtacca tagaactgaa ccaccatctg tatcagcgca tggggagtgt gcattctgag 660

gtctaacccg gggtgccagg aacacacaca tcctccatcc cagcata 707

<210> 3306
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 3306
ctaatgcttg gctantngtt ctttttgcag gatcccatcg attcgaattc ggcacgagat 60
tagctgcttg tggtggggcc ccaaccgccc tcgggcactg gggagctggg ctggggctgc 120
tgctctgggg tctccggggg ccacagcttg gggtgagttg aagacctcag gggatgtgga 180
ggggtctgcg gggccctggc cgcacaggat ggccttcagg gaaggtggtc ttggggcatg 240
gtgcagagca ggtgaccgga gggaatcggt gacggagcgg ggccaaggga ggggtccgga 300
gggagtcagg gatggagggc agagggagtg gatgtggggg tttgaggacg tgtgacaagc 360
tccagcaggg gtgggggccg ggctgagggt gggggtgcga ggtggtcact cccatcgtgc 420
ccctggccgt ccctccactc acccacacct ggcccagtcc acgttgaggt ccaggactgg 480
gaaggaccgg gtgagtgcac cggggaccca ggccaggtgc cccccggagc ctgctggggt 540
ggccagagca ggaggggggtg tgtttccttt ttgtgggtgt tgcatgcaaa tcaagtggac 600
aagaaaaaat aacanaacan anaanaaaaa aaaaaactcg agcctctaga actatagtga 660
agtcgtatta cgtagatcca gacatgataa gatacattga tga 703

<210> 3307
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3307
gnnccntaaa tngctgggct actcgtnctt tctcgcacgn anccnnncgn ttcgcacaaa 60
gggagaactt cctcgaggct ggaactgggt tgatgttgtg aagcatttaa gcaaaactgg 120
ctctaaggat gatgagtagc acttggaatt tgagacaagg aaagagcatt ctttaaagag 180
taaaactggg ttcaaaatct ttcattacta ttttctggta ttgaggcgac tttttataaa 240
acacaatttt ttgtatgttt cttacattaa aaaggttgta agttgaaagt tcatgaagag 300
atcttgttgt attaaattat tttcacaaac ttgccttaat aaaaggtgaa aatgttactg 360
tttagtatac tttatgaagc cccttgagct ttataaatgg acaggcatgg ggaataagaa 420
tcagtgttaa tttaaatgat cttatcctgg tggatgtgct attttcttaa aggagtatga 480
agccctttc aaactatcat cccagtggag cggagtactc agtgaacagt tactccatag 540
tgcaatccat attaataggc ttcttctctt aagtcttcat ctcttctttt gcttaattac 600
tgaaccgtaa attacttcag agaaatttaa atgctggtat ttgaacttta tacatgatac 660
tttttgtagt ttcttttaat ttttgaaaga tgaactgctt ccttttaanc 710

<210> 3308
<211> 757
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3308
nnannnnnnn tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngtnctaa 60
tgctggcnat cgttctttcc gcagcagccc ancgattcga attcggcacg agataacaca 120
gactttcaag gaccaaggat tggaggtttt aaagcaggaa acagcagttg ttgaaaacgt 180
ccccattttg ggactttatc agattccagc tgagggtgga ggccggattg tactgtatgg 240
ggactccaat tgcttggatg acagtcaccg acagaaggac tgcttttggc ttctggatgc 300
cctcctccag tacacatcgt atggggtgac accgcctagc ctcagtcact ctgggaaccg 360
ccagcgccct cccagtggag caggctcagt cactccagag aggatggaag gaaaccatct 420
tcatcggtac tccaaggttc tggaggccca tttgggagac ccaaaacctc ggcctctacc 480
agcctgtcca cgcttgtctt gggccaagcc acagccttta aacgagacgg cgcccagtaa 540
cctttggaaa catcagaagc tactctccat tgacctggac aaggtggtgt tacccaactt 600
tcgatcgaat cgccctcaag tgaggccctt gtcccctgga gagagcggcg cctgggacat 660
tcctggaggg atcatgcctg gccgctacaa ccaggaggtg ggccagacca ttcctgtctt 720
tgccttcctg ggagccatgg tggtcctggc cttcttt 757

<210> 3309
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3309
ctaatgctgg anctaatngc tgggctctcg ttctttncgc aggancctc gattcgaatt 60
cggcacgagg tcacatctta gatggatggt ggcagacaaa aagagagagc ttatttaggg 120
aaactctgtt tttaaaacca tcagatctca tgcaacttat tcaccatcac aagaacagca 180
gggcacagac ccatccccat gattcaatca tttcctactg ggtttcttcc acagcatgta 240
ggaattatgg gagctacaag atgagatttg ggtggagaca cagagccaaa acacatcaga 300
tgccatggaa atacaatgag gaaaagacag tctttccaat aaactgtgct gggaaacctg 360
gctatccata tgcaaaagaa tgaaactgga tctccatctc cctccttata taaatataaa 420
atcaaaatgg attaaagatt taaatctaag accttatact ataaaactaa aaaagaaaac 480
agtgggaaac tctctgggac attagtctgg gcaaaaattt cttgagtaat acccctcaag 540
cacagacaac aaaagcaaaa atggacaaat gtgaacacat caagttaaaa actatctgca 600
catcaaagga aacaatcaac aacgtgaaca gacagcccac agaatgagag aagtatttgc 660
aagatactca tctgacaagg gattaataga atatataagg agctcaaata 710

<210> 3310
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3310
ctaatgctgg anctaatngc tgggctctcg ttctttncgc aggancctc gattcgaatt 60
cggcacgagg tcacatctta gatggatggt ggcagacaaa aagagagagc ttatttaggg 120

aaactctgtt tttaaaacca tcagatctca tgcaacttat tcaccatcac aagaacagca 180
gggcacagac ccatccccat gattcaatca tttcctactg ggtttcttcc acagcatgta 240
ggaattatgg gagctacaag atgagatttg ggtggagaca cagagccaaa acacatcaga 300
tgccatggaa atacaatgag gaaaagacag tctttccaat aaactgtgct gggaaacctg 360
gctatccata tgcaaaagaa tgaaactgga tctccatctc cctccttata taaatataaa 420
atcaaaatgg attaaagatt taaatctaag accttatact ataaaactaa aaaagaaaac 480
agtgggaaac tctctgggac attagtctgg gcaaaaattt cttgagtaat acccctcaag 540
cacagacaac aaaagcaaaa atggacaaat gtgaacacat caagttaaaa actatctgca 600
catcaaagga aacaatcaac aacgtgaaca gacagcccac agaatgagag aagtatttgc 660
aagatactca tctgacaagg gattaataga atatataagg agctcaaata 710

<210> 3311
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(695)
<223> n = A,T,C or G

<400> 3311
ctaatgctgg gctggcgntc tttccgcaag anncctcgat tcgcccaggc tgacaggggc 60
tctgccgtct ttaacatgtg actttctagg tcagtcatct ggtcattgct tttccacaca 120
gcagataaga caaaggagtg gaaatagagg ggtagagatt ttctcttaaa cgtgtgaggc 180
tggagtggta tgcttcattg gcaagaacct ggtcctagcc tgcctagctg aaaggagggg 240
agtcagggag atgcactttg cagccaaaat tctgttgcca agaaggggaa agtagatttg 300
gttggatttt gatctgtgtt tgctgctgtg ttactctata attcagccat gtactctgga 360
ggtttagcta tgttgtagcc aattgatcta tctcattcct ttttactact gtacattata 420
ccacaataag agcatgctac gctttgttta gctgctagct gtttccttcc taatggatag 480
ttagctgatt tctgttgttt ttctctgaga accaatgttg caacgcccat cgaggaactc 540
tgccccccag atatatgtac atgtgtgatg tttctctttt atgggaactg ggtcatcaag 600
catgtgtctt tagtctggat agctattgtt aaactgccta caaactgagc agatctatta 660
atatcagtta cacttgggcc tttggggttt gagan 695

<210> 3312
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(695)
<223> n = A,T,C or G

<400> 3312
ctaatgctgg gctggcgntc tttccgcaag anncctcgat tcgcccaggc tgacaggggc 60
tctgccgtct ttaacatgtg actttctagg tcagtcatct ggtcattgct tttccacaca 120
gcagataaga caaaggagtg gaaatagagg ggtagagatt ttctcttaaa cgtgtgaggc 180
tggagtggta tgcttcattg gcaagaacct ggtcctagcc tgcctagctg aaaggagggg 240
agtcagggag atgcactttg cagccaaaat tctgttgcca agaaggggaa agtagatttg 300
gttggatttt gatctgtgtt tgctgctgtg ttactctata attcagccat gtactctgga 360
ggtttagcta tgttgtagcc aattgatcta tctcattcct ttttactact gtacattata 420
ccacaataag agcatgctac gctttgttta gctgctagct gtttccttcc taatggatag 480
ttagctgatt tctgttgttt ttctctgaga accaatgttg caacgcccat cgaggaactc 540
tgccccccag atatatgtac atgtgtgatg tttctctttt atgggaactg ggtcatcaag 600

catgtgtctt tagtctggat agctattgtt aaactgccta caaactgagc agatctatta 660
atatcagtta cacttgggcc tttggggttt gagan 695

<210> 3313
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(701)
<223> n = A,T,C or G

<400> 3313
nctaatgctg gctgttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggtc 60
cagaaatact ctgatactag ctatggtcag caacatttaa tgaaaaccct tatgttaaaa 120
ataaacccct gcctcctggc ttcaagcgat tctcctgcct cagcctcctg agtagctggg 180
agtataggca cgtaccacca cacccagcta atttttgta tttttactag agatgggttt 240
cacagtgtta gccaggatgg tttcgatctc ctgacctcat gatccgcccg cctcggcctc 300
ccaaagtgct gagattacag gcgtgagcca ctgtgcccgg cctcaaaatc ttaagaaaag 360
gttcttttgg tgcatggagt tttacatgga ataagttagt gcctctgcaa tttaaatatt 420
ttttacacag atttgatgct gtgcaaatgc cctctcccct tttaggtgtt gcttgttcag 480
tatctcaagc ccagaaagat gaattaatcc ttgaaggaaa tgacattgag cttgtttcaa 540
attcagcggc tttgattcag caagccacaa cagttaaaaa caaggatatc aggaaatttt 600
tggatggtat ctatgtctct gaaaaaggaa ctgttcagca ggctgatgaa taagatctaa 660
gagttacctg gctacagaaa gaagatgcca gatgacactt n 701

<210> 3314
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3314
nnnnctaatg ctggctactc gttctttncg caggatccca tcgattcggg ctaaaaccca 60
ggttcagcaa cttcttgtct caatcaccct tcagtcagag tgtgatgctt tccccaacat 120
atcttcagat gagtcttata ctttacttgt gaaagaacca gtggctgtcc ttaaggccaa 180
cagagtttgg ggagcattac gaggtttaga gacctttagc cagttagttt atcaagattc 240
ttatggaact ttcaccatca atgaatccac cattattgat tctccaaggt tttctcacag 300
aggaattttg attgatacat ccagacatta tctgccagtt aagattattc ttaaaactct 360
ggatgccatg gcttttaata agtttaatgt tcttcactgg cacatagttg atgaccagtc 420
tttcccatat cagagcatca cttttcctga gttaagcaat aaagtgagta aattgtattg 480
tactctgtct acaaaaacat tgggtatagt ttcattacaa gtttgtagct taaatgtttg 540
ttcttatgga tagaatcaaa gtgtaaaaat cagatgttta tggtttttaa ttttttggc 600
tgtgacttag cattttacat ccataaaact ttttttgtta ttgntataac ggttactgta 660
attgttactg tgaatatcaa caatcttggg gaagtgtaaa tccg 704

<210> 3315
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G

<400> 3315
gnnctaatgc tggctcttgt tcttttgcag gatccctcga ttcgtttttt aagagataag 60
gtcttgctat gttatctagg ctggcctaaa cttctgggct gaagtgatcc tcctgtgtag 120
ctgggactac aagcatgtgc caccaatgcc tggcttctca cactgttttg taacatagat 180
atgtgaagat gtgtattata gaattgtttg taatactgta gtgttgtagg caatgtgact 240
gtctataggg aagtggacag gttatttgtg gtaaatactc atggaaaacg gtcaagcagt 300
taaaagcaat caattatggt cacccagcaa tgcagataaa tcttaaaagc atatgatgct 360
atgataccaa agcacaagca ccgcccctgt aaatagagga attagatttc ttcagcatta 420
aaactttgtg catcaaagga tagtatcaag aaagtaaaaa gacaaatgga gaatgggaga 480
aaaatacttg caaaccatgt atctgataaa ggtctagtat tcagaaaaca attcaacaat 540
aaaaaagaca aataactgag ttataaatgg caaaggattt aaatagacat ttctctatgt 600
aaagaagatt tacaaatagt caataagcac atgaaaaaga tgttcaacat cattactcat 660
cagcaaaatg ccaatcaaaa ccacaatgaa ataccatttc at 702

<210> 3316
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3316
gnnnntttnn nnnnntttnt aaananacag gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc cacacgggcc gcatcatccc tgcaatctgg ttccgctacg 120
acctcagccc catcacggtc aagtacacag agagacggca gcccgcttgt acagattcat 180
caccacgatc tgtgccatca ttgggcggga ccttcaccgt cgccggcatc ctggactcat 240
gcatcttcac agcctctgag gcctggaaga agatccagct gggcaagatg cattgacgcc 300
acacccagcc taatggccga ggaccctggg catcgccagc cttgcctcca gtgccctgtc 360
tcctttggcc ctcaatctgg tcccaaatct ggctgtgtcc caaagggtgt gtgggaagtg 420
gggggaaagt agaggatggc tcgatgtttt gcagctacct cttttccccg tgtttctttt 480
tagacaaatt acactgcctg aagttgcagt tccccttccc tggggagccc caagaacaga 540
gtcaggcaag gggtggggag tncagggatc ttggggaccc ctnctaggag agctgcagtc 600
tcttncctta ggggaacatn ccanaatgca tatngatcag ctntnagcca ggctttngac 660
aattttccag cccccaacta ggtgggacac attaatgaat ttgggttttt cccttgggca 720
agccaacctg ncccaaangc accaaaactg gggcttttan n 761

<210> 3317
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 3317
tacagctact tgttcttttt gcagatccca tcgattcgtt ctcagatacc tgatggatcc 60

agacacattc actttcaact ttantaatga cccttnggtc cttcgacggc gccagaccta 120
cttgtgctat gaggtggagc gcctggacaa tggcacctgg gtcctgatgg accagcacat 180
gggctttcta tgcaacgagg ctaagaatct tctctgtggc ttttacggcc gccatgcgga 240
gctgcgcttc ttggacctgg ttccttcttt gcagttggac ccggcccaga tctacagggt 300
cacttggttc atnttctgga gcccctgctt ctcctggggc tgtgcccggg aaagtgcgtg 360
cnttccttca ggagaacaca cacgtgagac tgcgcatctt cgctgcccgc atctatgatt 420
atgacccccc atataangag gcgctgcaaa tgctgnggga tgctggggcc caagtttcca 480
tcatgaccta cgatgagttt gagtactgct gggacacctt tgtgtaccga cagggatgtc 540
cttncaccnt gggatggact aaaggagcac agccaanccc tgagtgggag gctgcnggcc 600
attctccaga atcanggaaa ctgaaggatg gcctcantct ctanggaggc ngagacctgg 660
gttggcanca naataaaaga ttttttttcaa gaaatgcaaa cagaccgtca ccaccn 716

<210> 3318
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 3318
caggctactt gttctttttg caggatccca tcgattcgaa ttcggcacga gtgaagaatg 60
gcgtgggttg gttcctttca aatgcacttg agcagcggtc tccaaccaca gggccacaga 120
gctggaggtg agcagcaggc gagtgaaggg aaacttcatc tgtatttcta gcccctccca 180
tcgcttgcat gaccacctga gctccatgtc ctgtcagatc agcagcagca ttagattctc 240
acaggagcac aaactctgtt gtgaagtgtg catgcgaggg atctaggttg tgtactcctt 300
atgagaatct aatgcctgat attctgttac tgtctcccat caccccagat ggacagtcta 360
gttgcaggaa aacaagctca gagatcccac tgagtctacg ttatagtgag ttgtagaatc 420
atttcattat atattactat gtagtaataa tagaaataaa gtgcacaata tatgtaatgc 480
acttgaatca tcctgaaatt attccctcat tcccagtctg tggaaaaatt gtcttccaca 540
cattcactct gttttttggt agaggcaggg tcttaatata ttgcccagtc tgatctcaaa 600
ctcctggcct caagtaatat acctctctta gcctnccaaa agtgctgaga ttacaggcat 660
aagccccccc ctcaaccaag actttnttna accaaataaa aattaagtga gattactttg 720
gcccag 726

<210> 3319
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(841)
<223> n = A,T,C or G

<400> 3319
tacangctac ttgttctttt tgcaggatcc catcgattcg aattcggcac gaggtccctt 60
gctcggggcc atggagacac tgcggccagt acggcggcgc ctctgtctga agaaggggaa 120
gtgacctccg gcctcaggc tctggccgtg gaggataccg gagcccctct gcctcggccg 180
gtaaggccga ggacgaggggg gaaggaggcc gagaggagac cgagcgtgag gggtccgggg 240
gcgaggaggc gcagggagaa gtccccagcg ctgggggaga agagcctgcc gaggaggact 300
ccgaggactg gtgcgtgccc tgcagcgacg aggaggtgga gctgcctgcg gatgggcagc 360
cctggatgcc cccgccctcc gaaatccagc ggctctatga actgctggct tgcccacggt 420
actctggagc tgcaagcccg agatccttgc cccgcccggc cttccacgcc ggaggcccan 480

aaccgaaaag gaaaagatcc cgatgaagga gcccggaggc ccaaaanaan aaggaaagag 540
ggaaaaaacc cacacattgc cccacnggaa tttggaattt ttgattgaat gagcccaant 600
ggaccaccca aanggacttn cccttgattg gaacccggga gaaccccanc ccccaaggga 660
aagcnttnaa nccccgggga agccccagaa aaaccngggn angggccccc ccccttgggn 720
acnaaagggt ggccttttтc cgggnccctt tgaaaggagg gacccccan nnaaagncnt 780
tggganggga aaccaaaaaa tccccttnn gtaancccg gggaangggg nanccttnt 840
t 841

<210> 3320
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = T,C or G

<400> 3320
gnnnnnttnn nnnnnnnttn tntananaca ggctacttgt tctttttgca ggatcccatc 60
gattcgcaga aattcaaata attcttttct gcttcaatgc cagcagaagg tcccccaggt 120
agacatggag aagcactttg ttttaaatag gagggtttca tagttgcatc tgaagccacc 180
tggttctgtt aaactgtatc gtgcaggttt tgggtttggc attattcatg tttctgatca 240
attctatgca actctcatag ttcctgttac tttttagcat tagctgccaa atgacttcaa 300
aaggctgggg tgggtgactt gactgtgaga ctggattata acatggacaa atcttatttt 360
gcttaatgtg tttgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtatgta 420
tatatatata tataaatatc tttcccaata tgccccgttg acagtgttta aattccanac 480
taggactgct gatctgcaca atttaattat gtggntattc gagcacttaa tttcactcaa 540
ggntcattgg gctctgctct tctccctgcc attacnggag ctgtggacag agctncctcc 600
ttcaanantc tagtggtttt gcncaacagg ntgnccaatg anaaaactga nttgcgtgnc 660
tgtaaatgtt gcncagggng cacatctnnn agggntcnat nctccggcct gtcctccaaa 720
agggctgggc cttgggcccn n 741

<210> 3321
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3321
ggnnnnttтt nnnnntactg anancctttn gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagag gcgatatccc tgagctgaga gcatnaccct gtccccgaat 120
ccttctttcc tctctgtttt gtttttcatt ccccтccctc tctcccctcc ccctccagtc 180
cacgacgact gggctgttga ccctgttcag gcctcggtga aggcttttgg ttactccccт 240
tcccacccca tcccttaatt ttattctttt gaagagtgca tttcaagctg ccaaggtgga 300
gagagggatt acagaaagga gaacacctta tttcagaaaa ggtgtaccat acctgagagc 360
accaggaagt cgcatgagag atcacctgat acatgaacgt atgatgttcc atctgcgcat 420
tgatgaatag gcagcattta caaattaact gatgtgttgc tgnatatcat ctctttgatg 480
attgctcctc ttctttgtat cctgncttat aatttcaaca catttgcgat actcaatgtc 540
tattctaaat taaccatgtt ttgtaccaca aactcattgc ccatggatct gttgctgaaa 600
caaggaagtc ttaaacaaga agtggaatct ttctgttatc agattgggtc tgaatcaaat 660
gatcagaagg gtgggaatat tacaaantga agaataacag ntgcaacctt cagtttctna 720

aaaataanaa gngagctttt cagggcaaat t 751

<210> 3322
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3322
nctaatgctg ggcncttgtt cttttngcag gatcccatcg attcgaattc ggcacgaggt 60
ctagtataat cttgatgctc aaaccagata aggacaatac aagaaaggaa gagtataggc 120
taattctacc caataactaa atgaagtatt agcaaaccag attcatcaat aatcttttaa 180
aaatcaagaa ttaattggat ttaggaatat aacactgtgt ataacaagtt taagagaaat 240
atatgagaat gataagactg caattgaaag tagaggcttt ctctggaggg aaaggtgagg 300
aggatgtgat ttggaagaac agcatgggga ggcatcagtt gtattgtaat gtttattttt 360
taagctgaat gataggtacg tagatgttca ttgtgttctt tttgcctttt tgtatatctt 420
aaatatatgg tagtgccatg attagcaggc ttaatagcct tgtgagttta aatgtcactt 480
tcaaatgctg tatttttggt ggagttgctt aaacacattc cccttggaat ctatacaacc 540
agttaaaaaa atcatgtata aaccaccatg aaatataatg aaatgtactg tatatgcatt 600
ttcatgaatg ttgtgtcaaa gggcttgtag gaaaaaaaga tcgttaactc ttttgcattc 660
agtgaaaata ggtggctttg gaaatagttt cagccttgct aacac 705

<210> 3323
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3323
gnnnnttttnn nnnnnttttnt aaananacag gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc cacacgggcc gcatcatccc tgcaatctgg ttccgctacg 120
acctcagccc catcacggtc aagtacacag agagacggca gcccgcttgt acagattcat 180
caccacgatc tgtgccatca ttgggcggga ccttcaccgt cgccggcatc ctggactcat 240
gcatcttcac agcctctgag gcctggaaga agatccagct gggcaagatg cattgacgcc 300
acacccagcc taatggccga ggaccctggg catcgccagc cttgcctcca gtgccctgtc 360
tcctttggcc ctcaatctgg tcccaaatct ggctgtgtcc caaagggtgt gtgggaagtg 420
gggggaaagt agaggatggc tcgatgtttt gcagctacct cttttccccg tgtttctttt 480
tagacaaatt acactgcctg aagttgcagt tccccctttcc tggggagccc caagaacaga 540
gtcaggcaag gggtggggag tncagggatc ttggggaccc ctnctaggag agctgcagtc 600
tcttncctta ggggaacatn ccanaatgca tatngatcag ctntnagcca ggctttngac 660
aattttccag cccccaacta ggtgggacac attaatgaat ttgggttttt cccttgggca 720
agccaacctg ncccaaangc accaaaactg gggcttttan n 761

<210> 3324
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3324
gtnctaatng ngngctcncg gcnngtccgc aacagcccng cggntcgaat tcggcacgag 60
gccttttgtg gggtctcata cataactcag tttccacaaa gctgtgcccc agctcagccc 120
tatggataga agcatggtct ggggttcctt tgctgaccag ggtgtgtgct ttgtccaagt 180
tactgacctt cccaaacctc atcaatgcac ataaaaagag cacttgcaaa caatgaatct 240
agacatggac cttcacaaag aaataactca aaatggatcc caggcctaaa tgaaaaatga 300
aaaactataa aactcctaga agataacata aaagaagatc tagatgacct agggtttggc 360
aatgactttt tagatccagc accaaaggca ggatccagga aagaaataat tgataagctg 420
gacttcatta aaacgaaaac ttctgctctg tgaaagatgc tgccaaaaaa tgaaaagaca 480
agccacagac tgggagaaaa tatttttgat ggaaatatct gagaagagag gcttgttatc 540
caaaatatac aaagaatttc taaaactcaa taatttgaaa ataaacaacc caatttaaaa 600
agtgggccaa agatcttaaa tgacgcctca ccaaagaaga tacacagatg gcaaataagc 660
atatgaaaag atgctcccgg ctgggcacgg tggctcacgc ccgtaatccc gc 712

<210> 3325
<211> 1249
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1249)
<223> n = A,T,C or G

<400> 3325
angctacttt gttctttttg caggnnnttt ttnnnnatac agctcttgtt ctttttgcag 60
gatcccatcg attcgaattc ggcacgagaa aacacacaca cacacaacac aatgttttca 120
cgcctgtaaa cctagcacat tgggaagcca aggtggggag ggattgcttt gaggccaggg 180
aagttcaagg gctgcaagtg gagcttatga attggcncac ctggtacctc ttagccctgg 240
gggaggaaca agaagtggag gaacacctgg tcttcttnaa aaaaaaaaaa aaaaaaaagg 300
ttttttttg gaaacccctt ttaaaaaaat taacctttt tggtttttg ggaaaatttt 360
tcctttaaaa ttccaattcc aantttcca aaaaaaaagg naaggcccaa ggtttaaaaa 420
aaaaaaaaat ngggggtttt aaacctttn gggttttncc ttttngggtt aacccaaaag 480
ggccctttan cctttaaaaa tttttaaggg aaacctttaa tttaaggttt aaggggggaa 540
attaantttt tttttnaaaa aaaggnaagg cccttgggna aaanttccaa ccctttttt 600
ttnggggtt aantttttt tnggggttn anttaaaaaa aattaatttt tttttnccaa 660
ttttttggg ttttaaatng gttcccccc caaggntaaa ttaaattttc ccttttaaac 720
cttgggggna aaaaaaaatt ttccnttttg ggtttttttt gggaaattcc ttgggccccc 780
ttggnaaaag naaaaaaaaa ttaanttcct tggggttttt ttnccttaan ttanttaaaa 840
aaaaaaaaaa aatttttttt tttttaaaaa aaaattaaaa atttnggtta aaaaagggtt 900
ttaagggaat tttttaaaaa aaaattttgg ttaaaaaaaa attatttaaa aaaaattcca 960
accaaaaagg gggaaaattg gttanccccc tttaatggga aaatgggttt gggtttggga 1020
cccantttt ttaattggaa aaaatttaat tggtngggga tttccaatta tttacctggg 1080
tttanccaaa ggaataagga aaatttggaa atgggccaaa aaaggaccca aaaaccctca 1140
attaaaaatt tgagggaaaa cgtggttatt atgtaattga aataaaaaca ttttataatt 1200
gtaaaaaaaa aaaaaaaaaa actcgagcct ttaaactata ggggtcgtn 1249

<210> 3326
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3326
ttaaanannt ngctcttgtt ctttttgcag gacctttcna aanacagctc ttgttntttt 60
gcggatccct cgattcgttt ctatacaatt tttccttctg atccagagac acggaaaaac 120
aaagggcaag atggaaataa gggatgagaa ggtctatgtg gaaaaacagt tacaactggg 180
agtgggtaac tgcaaaacca agcagcttca tgtgatcgtt aggacagaag aaatttctcc 240
tttgtagcct agagcaatat tctcaaaatt taatgcgcat gttaatcatt tggggatctt 300
ttattcattt tttcatgtgg ggatctttta aaaatgcaaa ttctgatttg gtaagtctgg 360
agtaggtcct gagcttctgc atgcttcaaa agctgattat gttttgagaa catggatcta 420
gatgctggta ttgaggtggg agacaagtac tgccacctga aacaacagtc ttggtaaatt 480
tagcccgacg agggtaaaca catcctaaca gggaaggtaa actgtcgtcc atcagtacca 540
ctagagggca tcactggttt atagttcaat acagtgaata tatcagaata atggccttta 600
gttttcctga aagattaaat taggcttgct aacttgttta atgagataat caaacatatg 660
atgtaatttt aaagggttta catttttaaa aattaatagg gtatcagtta ctaattttac 720
ttaaatggna ctctgtaagc ttaataggta tgcttaaata 760

<210> 3327
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3327
ttaaanannt ngctcttgtt ctttttgcag gacctttcna aanacagctc ttgttntttt 60
gcggatccct cgattcgttt ctatacaatt tttccttctg atccagagac acggaaaaac 120
aaagggcaag atggaaataa gggatgagaa ggtctatgtg gaaaaacagt tacaactggg 180
agtgggtaac tgcaaaacca agcagcttca tgtgatcgtt aggacagaag aaatttctcc 240
tttgtagcct agagcaatat tctcaaaatt taatgcgcat gttaatcatt tggggatctt 300
ttattcattt tttcatgtgg ggatctttta aaaatgcaaa ttctgatttg gtaagtctgg 360
agtaggtcct gagcttctgc atgcttcaaa agctgattat gttttgagaa catggatcta 420
gatgctggta ttgaggtggg agacaagtac tgccacctga aacaacagtc ttggtaaatt 480
tagcccgacg agggtaaaca catcctaaca gggaaggtaa actgtcgtcc atcagtacca 540
ctagagggca tcactggttt atagttcaat acagtgaata tatcagaata atggccttta 600
gttttcctga aagattaaat taggcttgct aacttgttta atgagataat caaacatatg 660
atgtaatttt aaagggttta catttttaaa aattaatagg gtatcagtta ctaattttac 720
ttaaatggna ctctgtaagc ttaataggta tgcttaaata 760

<210> 3328
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3328

agctcttgtt ctttttgcag gatcctttca anatacagct cttgttcttt ttgcagggtc 60
ccatcgattc gtttctatac aatttttcct tctgatccag agacacggaa aaacaaaggg 120
caagatggaa ataagggatg agaaggtcta tgtggaaaaa cagttacaac tggagtgggt 180
aactgcaaaa accaagcagc ttcatgtgat cgttaggaca gaagaaattt ctcctttgta 240
gcctagagca atattctcaa aatttaatgc gcatgttaat catttgggga tcttttattc 300
atttttcat gtggggatct tttaaaaatg caaattctga tttggtaagt ctggagtagg 360
tcctgagctt ctgcatgctt caaaagctga ttatgttttg agaacatgga tctagatgct 420
ggtattgagg tgggagacaa gtactgccac ctgaaacaac agtcttggta aatttagccc 480
gacgagggta aacacatcct aacagggaag gtaaactgta cgtccatcag taccactaga 540
gggcatcact ggtttatagt tcaatacagt gaatatatca gaataatggc ctttagtttt 600
cctgaaagat taaattaggc ttgctaactt gtttaatgag ataatcaaac atatgatgta 660
attttaaagg gtttacattt ttaaaaattt aatagggtat cagttactaa ttttacttan 720
atggactctg taagcttata ggttgcttaa an 752

<210> 3329
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3329
agctcttgtt ctttttgcag gatcctttca anatacagct cttgttcttt ttgcagggtc 60
ccatcgattc gtttctatac aatttttcct tctgatccag agacacggaa aaacaaaggg 120
caagatggaa ataagggatg agaaggtcta tgtggaaaaa cagttacaac tggagtgggt 180
aactgcaaaa accaagcagc ttcatgtgat cgttaggaca gaagaaattt ctcctttgta 240
gcctagagca atattctcaa aatttaatgc gcatgttaat catttgggga tcttttattc 300
atttttcat gtggggatct tttaaaaatg caaattctga tttggtaagt ctggagtagg 360
tcctgagctt ctgcatgctt caaaagctga ttatgttttg agaacatgga tctagatgct 420
ggtattgagg tgggagacaa gtactgccac ctgaaacaac agtcttggta aatttagccc 480
gacgagggta aacacatcct aacagggaag gtaaactgta cgtccatcag taccactaga 540
gggcatcact ggtttatagt tcaatacagt gaatatatca gaataatggc ctttagtttt 600
cctgaaagat taaattaggc ttgctaactt gtttaatgag ataatcaaac atatgatgta 660
attttaaagg gtttacattt ttaaaaattt aatagggtat cagttactaa ttttacttan 720
atggactctg taagcttata ggttgcttaa an 752

<210> 3330
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3330
ttggnnnnnn nnnnnnnttt annntncagc tnnngnnagc tcttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgaggttgg ccggagatgt ctttttattt ttgtgctgta 120
aaattctctt acagcaaaaa taggctttag aaaggtcttc tactgtcttc agcaaccatc 180
tcatcttcca gcttcacctg attgtccagt tatcatacat ttgactttca aatgtatgaa 240
ccagcatgta ccccatggat ttaatcttat ctaccccgtg gattcaatct tcttatcaga 300
aggttctttt atgtcaaaaa acctgctgtc aaggcttgaa gagccggcac actcaatggc 360

aaacacagca cccgagtctg ctctgaatcc tggaggatct ggccctcctc tcaaccccca 420
ctcacagtca ccgtcttaca actcagggcc acctgggatc agtcatcagt cagggtgcgt 480
aagccttgaa taccaggtag cctcaggagt gaaaagataa atgtcctaga tcattacctt 540
attcagtgtc cccaccttgc agcgcattcc aaccacctgg gagcatttaa aactccagat 600
gcccacacca caccctgggg cccccatcag accttntgga agcaagacct gggcctncat 660
ggncccnaaa actcctaggg gatccgatgt gcagccnaat cttgaaangg cccatttaaa 720
aaanaaagaa catgggtggt acattgggga gtnttta 757

<210> 3331
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3331
gnnnnttnnn nnnnntttnt nnanatacag gctacttgtt ctttttgcag gatcccatcg 60
attcgtctcc ttgcctttct cctgaaaggt atgagactac ttgccttact gtcatattat 120
tgaggggaat cagccgcaaa gcctgnggaa aatgaacagt agctgtgggg tcaaagccat 180
gtctccaggt tcacgggctc actcccccca ggacaagcct agttaggtag tgggctgcat 240
ctgggtatcc ctgggacaga aatgcaggtg agaaggggta tcaagaatgc ctcgagcctc 300
tagaactata gtgagtcgta ttacgtagat ccagacatga taagatacat tgatgagttt 360
ggacaaacca caactagaat gcagtgaaaa aaatgcttta tttgtgaaat ttgtgatgct 420
attgctttat ttgtaaccat tataagctgc aataaacaag ttaacaacaa caattgcatt 480
cattttatgt ttcaggttca gggggaggtg tgggaggttt tttaattcgc ggccgcggcg 540
ccaatgcatt gggcccggta cccagctttt gttcccttta gtgagggtta attgcgccct 600
tggcgtaatc atggtcatag ctgtttcctg tgtgaaattg ttatccgctc acaattccac 660
acaacatacc agccgggagc ataaagtgta aagcctgggg tgcctaatga gtgagctact 720
cacattaatt gcgttgcctc actgcccttt ccaan 755

<210> 3332
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3332
caatgctggt tctngttctt tttgcaggat cccatcgatt cgaattcggc acgagggatg 60
acccatgcca aaaatactat gagctcttac tagtcaaccc tatttggttg gtcccaccaa 120
caaaggcact tgcagttaca ttcaccacat ttgtaacgga gccattgaag catattggaa 180
aaggaactgg ggaatttatt aaagcactca tgaaggaaat tccagcgctg cttcatcttc 240
cagtgctgat aattatggca ttagccatcc tgagtttctg ctatggtgct ggaaaatcag 300
ttcatgtgct gagacatata ggcggtcctg agagcgaacc tccccaggca cttcggccac 360
gggatagaag acggcaggag gaaatcgatt atagacctga tggtggagca ggtgatgccg 420
atttccatta taggggccaa atgggcccca ctgagcaagg cccttatgcc aaaacgtatg 480
agggtagaag agagattttg agagagagag atgttgactt gagatttcag actggcaaca 540
agagccctga agtgctccgg gcatttgatg taccagacgc agaggcacac cgaaagaaag 600
cagtactgaa agcagccagt cggccaagcc tgtctctggc caagacacat cagggaatac 660
agaaggttca cccgcagcgg aaaaggccca gctcaagtct gaagc 705

<210> 3333
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 3333
tgctggncta aatgctggnn atcgntcttt ccgcantaga acnnncgatt cgaattcggc 60
acgaggctac ctgggcggcg acgggctgga cgtggacgtg cccacgcgtc tggagggctg 120
gttcttctgc acgcccgccc gcaagctgct ctggctggtg ctgcagccct tcttctactc 180
actacggccg ctctgcgtcc accccaaggc cgtgacccgc atggaggtgc tcaacacgct 240
ggtgcagctg gcggccgacc tggccatctt tgccctttgg gggctcaagc ccgtggtcta 300
cctgctggcc agctccttcc tgggcctggg cctgcacccc atctcgggcc acttcgtggc 360
cgagcactac atgttcctca agggccacga gacctactcc tactatgggc ctctcaactg 420
gatcaccttc aatgtgggct accacgtgga gcaccacgac ttccccagca tcccgggcta 480
caacctgccg ctggtgcgga agatcgcgcc cgagtactac gaccacctgc cgcagcacca 540
ctcctgggtg aaggtgctct gggattttgt gtttgaggac tccctggggc cctatgccag 600
ggtgaagcgg gtgtacaggc tggcaaaaga tggtctgtga gcccaggctg cctcctggtg 660
gtggccattg tcccccatcg gcccctcacc ttgcacccca ncn 703

<210> 3334
<211> 696
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G

<400> 3334
tgctgggctc tngttctttt ngcaggancc catcgattcg aattcggcac gagaaggacc 60
tgcagcttca gcatcacttg agaagttgtt aggaatgcat actagtgggc cccgccccca 120
gacatagtga atcagaaacc aacagggagg cgcctagcat tgtttttta acaagtgctg 180
ggttattctg atgcacagtc tagtttaaga accactactt tgggtaaacg ttttgactgt 240
ttaaagttta tggcggtgaa gtgggcatct tcaaagacta gtacttacac agtttagaag 300
atttcaaggt actgctgaca gtagtttatt atgtcagtat acatacgtgt agagatcata 360
atttagttcc cttcttaatg ttacaatttc ttagtttact tttcctaaag ggccatagca 420
taattcttga ttcctggtgg aaatcttttc tgaggtgtgg gggtgggcaa ggtgtggatt 480
gctgtttacg atagtgcctt cattagtttt agttctgtct gttttcattc attattgact 540
caaaggtatt agaacaggcc cttatctttt tcctattaga tttatttttg ttttttactt 600
tatgtaagtt cagaatcctt ttttaagtga tgactactga tgaaataatg ttactagtag 660
ctgaatttta gacttgatgc tatgttgatt aatatn 696

<210> 3335
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)

<223> n = A,T,C or G

<400> 3335
gtncctaann ngngtgnngg cangctcnta tctctnaana gaattgggct ttgtcgaatt 60
ccgcncggag acantctgan cgtgctngag cagctgatta tcaagcccgg ggtgcgccag 120
atccatctgt ncnacggacn ngcgcggntt gaccgagcat gaggctgcct gaangangac 180
caggggctnt ttgtncacan gngtccaggn cannaccgct gnntnccttg tggtgntgng 240
ctatggngnc cagntnttgc acattgacan acttnactgc actgggtggg agctcgcaca 300
ttngcccatt tgtggtagaa tcaaggcatc acccgataag attgncgtgg tggaaacgtc 360
acagtccgac canttngact gtcaccatgc canntgacag catnnatact ttctngcttn 420
tagatcacta cggggaagat actctctatn gtcaanggga nntatncttc cgaaactgcc 480
tcctnancnn ccnctanncn tntgacngat accgtcanaa nnatatctgn ctgaaggncn 540
natatatcnt ngcatatncn nganncgnat ggnancgntn tanccctnac cntnatcccn 600
agtgcganct tactatcnca tnntnnaann agtttgnntt cncttctggn anancacacc 660
catggacnac tgcatccnca gatgccttna ttcactgnta nccttggcct gcactnnngn 720
gctttccctc cttanc 736

<210> 3336
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3336
nnncaatgct ggctgctcgt tctttccgca ggancccanc gattcgaatt cggcacgagg 60
aaatgtgtat ttcagtgaca atttcgtggt ctttttagag gtatattcca aaatttcctt 120
gtatttttag gttatgcaac taataaaaac taccttacat taattaatta cagttttcta 180
cacatggtaa tacaggatat gctactgatt taggaagttt ttaagttcat ggtattctct 240
tgattccaac aaagtttgat tttctcttgt attacatttt ttatttttca aattggatga 300
taatttcttg gaaacatttt ttatgtttta gtaaacagta ttttttgtt gtttcaaact 360
gaagtttact gagagatcca tcaaattgaa caatctgttg taatttaaaa ttttggccac 420
ttttttcaga ttttacatca ttcttgctga acttcaactt gaaattgttt tttttttct 480
ttttggatgt gaaggtgaac attcctgatt tttgtctgat gtgaaaaagc cttggtattt 540
tacattttga aaattcaaag aagcttaata taaaagtttg cattctactc aggaaaaagc 600
atcttcttgt atatgtctta aatgtatttt tgtcctcata tacagaaagt tcttaattga 660
ttttacagtc tgtaatgctt gatgttttaa aataataaca ttttng 706

<210> 3337
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 3337
caatggctgg tngctngttc tttttgcagg atcccatcga ttcgtgtgga gaaccttctt 60
tttctatggg aaatcacttc tggagttggc aagaatggag aatggtgtgt tgggaaacgc 120
cttggaaggt gtgcatgtgg aacatcattc tcaccaccag tctcttctct gtgcctttct 180
tcctgacgtg gagtgtggtg aactcagtgc attgggccaa tggttcgaca caggctctgc 240

cagccacaac catcctgctg cttctgacgg tttggctgct ggtgggcttt cccctcactg 300
tcattggagg catctttggg aagaacaacg ccagcccctt tgatgcaccc tgtcgcacca 360
agaacatcgc ccgggagatt ccaccccagc cctggtacaa gtctactgtc atccacatga 420
ctgttggagg cttcctgcct ttcagtgcca tctctgtgga gctgtactac atctttgcca 480
cagtatgggg tcgggagcag tacactttgt acggcatcct cttctttgtc ttcgccatcc 540
tgctgagtgt gggggcttgc atctccattg cactcaccta cttccagttg tctggggagg 600
attaccgctg gtggtggcga tctgtgctga gtgttggctc caccggcctc ttcatcttcc 660
tctactcagt tttctattat gcccggcgct ccaacatgtc tgg 703

<210> 3338
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3338
ctaatgctgg cngcttgttc tttttgcagg atcccatcga ttcggaatga gagctgctat 60
ttgtgtttaa aaagaccata cagggccagc cacagtggct cacacctgta atcccagcac 120
tttgggaggt cnatgtgttt ncacnnctnt tnntnagnan nantntgtca tggaggctta 180
ntttgtggng tntgatgnca tactgntagg ccaacatgtg tccnaggnan agnggnangn 240
tnangccatt agcntggtgn aaacttgccg gatgttgatg ctctantaag anccgnatgt 300
gccatttntg aactntttag tantgangga gtcntggtgn tcaanatgga tntacanatg 360
cctanttacc cgnncntgnc taacnagant ntgcccaacc ttcatgtcat gaaggnnntn 420
nantctttta ttcccanngt tncctnaaac gaacantttg cctgnacaca ttttctactg 480
gnaccttacn aatnaggtta tcccgnatnt tcntgattac ttttcttctg cnncnngana 540
tngtgcctnt caccctactc ctntatccnt ccattnacct nttaggccat ncncctaaac 600
gnnntgcann tntnancntc cctnntnang aattttctaa atangnntta attctctnnc 660
ctnacnttnc tcttcnnttc cnngnatttn nnttnnnntt cnctnttngn tntcnccnct 720
anttcaancn nctcttaant ttngcnnntc ctcnnttcnn t 761

<210> 3339
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3339
nctaatgctg ggctatcgtt ctttccgcag nancccntcg attcgagtgg ctgagtggag 60
gcgcccagac ctgggcaggc agcaggctca ggcccacacc ttgtgatttt tgaaaccaaa 120
gcccagaaga tgatgtttac ttctctctcc ctggctctgc ccttcttact gcaaaccatg 180
ctgtgcctta gggcccttct catagctgtt cctcatggcc atgactggaa cagggatgca 240
acctctttct acacaagcac agttagttgg gtgaagtctt tnttttgttt gttttagacg 300
gagtttcact cttgttgccc aggctggagt gaagtggcgt gaccttggct cactgcaacc 360
tccaggccag cctcagcctc cctagtagct gggactacag gcacccacta ccacgcctgg 420
ctaattcttt gtatttttag tagagatggg gtttgaccgt gttagccagg atggtctcga 480
tctcctgacc tcgtgatcca cccacctcgg cctcccaaag tgctgggatt ataggtgtga 540
gccaccgcgc cgggccggtt gctggcatct taatgttctg taggtggaat atttccaata 600
aacacaaggt gccgtaattg aaaaaaaana aaaaaaaaac ttcgagcctc tagaactata 660

gtgagtcgta ttacgtagat ccagacatga taagatacat tgatga 706

<210> 3340
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3340
ctaatgctgg tngctngttc tttccgcagg atcccatcga ttcgaattcg gcacgaggcg 60
acatcagaag atcattgagg aggccccagc gcctggtatt aaatctgaag taagaaaaaa 120
gctgggagaa gctgcagtca gagctgctaa agctgtaaat tatgttggag cagggactgt 180
ggagtttatt atggactcaa aacataattt ctgtttcatg gagatgaata caaggctgca 240
agtggaacat cctgttactg agatgatcac aggaactgac ttggtggagt ggcagcttag 300
aattgcagca ggagagaaga ttcctttgag ccaggaagaa ataactctgc agggccatgc 360
cttcgaagct agaatatatg cagaagatcc tagcaataac ttcatgcctg tggcaggccc 420
attagtgcac ctctctactc ctcgagcaga cccttccacc aggattgaaa ctggagtacg 480
gcaaggagac gaagtttccg tgcattatga ccccatgatt gcgaagctgg tcgtgtgggc 540
agcagatcgc caggcggcat tgacaaaact gaggtacagc cttcgtcagt acaatattgt 600
tggactgccc accaacattg acttcttact caacctgtct ggccacccag agtttgaagc 660
tgggaacgtg cacactgatt tcatccctca acaccacaaa cagttg 706

<210> 3341
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 3341
nnctaatgct gggctgctng nnctttntcg caggatccca tcgattcgaa ttcggcacga 60
ggtacgagag tctgttgaac aacaggctga tagtttcaaa gcaacacgtt ttaaccttga 120
aactgaatgg aagaataact atcctcgcct gcgggaactt gaccggaatg aactatttga 180
aaaagctaaa aatgaaatcc ttgatgaagt tatcagtctg agccaggtta caccaaaaca 240
ttgggaggaa atccttcaac aatctttgtg ggaaagagta tcaactcatg tgattgaaaa 300
catctacctt ccagctgcgc agaccatgaa ttcaggaact tttaacacca cagtggatat 360
caagcttaaa cagtggactg ataaacaact tcctaataaa gcagtagagg ttgcttggga 420
gaccctacaa gaagaatttt cccgctttat gacagaaccg aaagggaaag agcatgatga 480
catatttgat aaacttaaag aggccgttaa ggaagaaagt attaaacgac acaagtggaa 540
tgactttgcg gaggacagct tgagggttat tcaacacaat gctttggaag accgatccat 600
atctgataaa cagcaatggg atgcagctat ttattttatg gaagaggctc tgcaggctcg 660
tctcaaggat actgaaaatg caattgaaaa catggtgggt ccagactgc 709

<210> 3342
<211> 715
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3342
gtcctanagt gtggtctcgn cnnnccgnan gagntnggcg ggngcgaatt cggcacgagc 60
agaacttcac agcagcctgt cctcatcagc aacccaacca ccttcatcag caacccaacc 120
accttcatca gcaacccaac cacctcgtca gcaacccaac cacctcgtca gcaacccagc 180
caccttcatc agcaacccaa ccacctcatc agcaacccag ccaccttcat cagcaaccca 240
accacctcat cagcaaacca accactttca tctgcaaccc aaccactttc atcagcaact 300
caacaccttc atctgcaacc caaccacctt catcagcaaa ccaaccacct tcttcagcaa 360
cccaaccacc tcatcttgga gaaggagaag gaactgcaag ccaccaagtc ttcatttttc 420
agggtttgta atcttcccaa agttttcctt tgaaaatagg ataatgggtg gaattttcag 480
agtgattaca tacctcaaca tttttattaa catacaacaa tgggaaagtt catcatccat 540
atactgcagt cacttaaaca acagccaatt attgcaagat tagaattgga gatcttgtcc 600
tcaaaagtat aaatngtcct ttgagttata gaaaataatg gaattgggat ttctacatat 660
cattattata cctattttaa atttaatggg cagccaggca tggttccagc tacnt 715

<210> 3343
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 3343
ctaatgctgg ctngctcgtt ctntccgcag tanccctcga gtcgaattcg gcacgagact 60
gcctccttcc acacgagtgc ccctttggcc aaagaagatt attatcagat attaggagtg 120
cctcgaaatg ccagccagaa agagatcaag aaagcctatt atcagctgct ctgctcagtt 180
agtttttatt cccggggtac caagcagctg cacagtcggt gcctgggagg cacgtagagg 240
cccctggctc aggcagaggg agatggttag actcttgcag ggctaaaact ctaatttgga 300
attgaatatt gtggatatct tagttaaagg ccatgcttac agcttagaaa tgaagcctta 360
agctgcatca tcatatcgcc ctgtgtggtc tgcaggggag caggacaagc caagcagaaa 420
aagcgagtga tgatccctgt gcctgcagga gtcgaggatg gccagaccgt gaggatgcct 480
gtgggaaaaa gggaaatttt cattacgttc agggtgcaga aaagccctgt gttccggagg 540
gacggcgcag acatccactc cgacctcttt atttctatag ctcaggctct tcttggggga 600
acagccagag cccagggcct gtacgagacg atcaacgtga cgatcccccc tgggactcag 660
acagaccaga agattcggat gggtgggaaa ggcatccccc ggattaac 708

<210> 3344
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 3344
gtnnctaatn ctgggctctc gtnctttctc gcagtanccc ntcgattcga attcggcacg 60
aggagacagc agcccccagg gaatgaagct gatgccagag tcagacccga ggaggaagag 120
gagccactga tggagatgcg gctccgggat gcgcctcagc acttctatgc agcactgctg 180

cagctgggcc tcaagtacct ctttatcctt ggtattcaga ttctggcctg tgccttggca 240
gcctccatcc ttcgcaggca tctcatggtc tggaaagtgt ttgcccctaa gttcatattt 300
gaggctgtgg gcttcattgt gagcagcgtg ggacttctcc tgggcatagc tttggtgatg 360
agagtggatg gtgctgtgag ctcctggttc aggcagctat ttctggccca gcagaggtag 420
cctagtctgt gattactggc acttggctac agagagtgct ggagaacagt gtagcctggc 480
ctgtacaggt actggatgat ctgcaagaca ggctcagcca tactcttact atcatgcagc 540
caggggccgc tgacatctag gacttcatta ttctataatt caggaccaca gtggagtatg 600
atccctaact cctgatttgg atgcatctga gggacaaggg gggcggtctc cgaagtggaa 660
taaaataggc cgggcgtggt gactttgcac ctataatccc agcactttgg gan 713

<210> 3345
<211> 710
<212> DNA
<213> Homo sapiens

<400> 3345
ctaatgctgg gctgcttgtt ctttttgcag gatcccatcg attcggaaaa gttaaaaaag 60
acattgagtg atgtaatcca ccctgggggc aatagccata ttgccaatgg tgcggccggg 120
tgtgtggcaa cattacttca tgatgcagcc atgaaccctg cggaagtggt caagcagagg 180
atgcagatgt acaactcacc ataccaccgg gtgacagact gtgtacgggc agtgtggcaa 240
aatgaagggg ccggggcctt ttaccgcagc tacaccaccc agctgaccat gaacgttcct 300
ttccaagcca ttcacttcat gacctatgaa ttcctgcagg agcactttaa cccccagaga 360
cggtacaacc caagctccca cgtcctctct ggagcttgcg caggagctgt agctgccgca 420
gccacaaccc cactggacgt ttgcaaaaca ctgctcaaca cccaggagtc cttggctttg 480
aactcacaca ttacaggaca tatcacaggc atggctagtg ccttcaggac ggtatatcaa 540
gtaggtgggg tgaccgccta tttccgaggg gtgcaggcca gagtaattta ccagatcccc 600
tccacagcca tcgcatggtc tgtgtatgag ttcttcaaat acctaatcac taaaaggcaa 660
gaagagtgga gggctggcaa gtgaagtagc actgaacgaa gccaggggtt 710

<210> 3346
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3346
gtnctaatng ngngctcncg gcnngtccgc aacagcccng cggntcgaat tcggcacgag 60
gccttttgtg gggtctcata cataactcag tttccacaaa gctgtgcccc agctcagccc 120
tatggataga agcatggtct ggggttcctt tgctgaccag ggtgtgtgct ttgtccaagt 180
tactgacctt cccaaacctc atcaatgcac ataaaaagag cacttgcaaa caatgaatct 240
agacatggac cttcacaaag aaataactca aaatggatcc caggcctaaa tgaaaaatga 300
aaaactataa aactcctaga agataacata aaagaagatc tagatgacct agggtttggc 360
aatgactttt tagatccagc accaaaggca ggatccagga aagaaataat tgataagctg 420
gacttcatta aaacgaaaac ttctgctctg tgaaagatgc tgccaaaaaa tgaaaagaca 480
agccacagac tgggagaaaa tatttttgat ggaaatatct gagaagagag gcttgttatc 540
caaaatatac aaagaatttc taaaactcaa taatttgaaa ataaacaacc caatttaaaa 600
agtgggccaa agatcttaaa tgacgcctca ccaaagaaga tacacagatg gcaaataagc 660
atatgaaaag atgctcccgg ctgggcacgg tggctcacgc ccgtaatccc gc 712

<210> 3347
<211> 705
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3347
nctaatgctg ggcncttgtt cttttngcag gatcccatcg attcgaattc ggcacgaggt 60
ctagtataat cttgatgctc aaaccagata aggacaatac aagaaaggaa gagtataggc 120
taattctacc caataactaa atgaagtatt agcaaaccag attcatcaat aatcttttaa 180
aaatcaagaa ttaattggat ttaggaatat aacactgtgt ataacaagtt taagagaaat 240
atatgagaat gataagactg caattgaaag tagaggcttt ctctggaggg aaaggtgagg 300
aggatgtgat ttggaagaac agcatgggga ggcatcagtt gtattgtaat gtttatttt 360
taagctgaat gataggtacg tagatgttca ttgtgttctt tttgcctttt tgtatatctt 420
aaatatatgg tagtgccatg attagcaggc ttaatagcct tgtgagttta aatgtcactt 480
tcaaatgctg tatttttggt ggagttgctt aaacacattc cccttggaat ctatacaacc 540
agttaaaaaa atcatgtata aaccaccatg aaatataatg aaatgtactg tatatgcatt 600
ttcatgaatg ttgtgtcaaa gggcttgtag gaaaaaaaga tcgttaactc ttttgcattc 660
agtgaaaata ggtggctttg gaaatagttt cagccttgct aacac 705

<210> 3348
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3348
ctaatgctgg cngcttgttc tttttgcagg atcccatcga ttcggaatga gagctgctat 60
ttgtgtttaa aaagaccata cagggccagc cacagtggct cacacctgta atcccagcac 120
tttgggaggt cnatgtgttt ncacnnctnt tnntnagnan nantntgtca tggaggctta 180
ntttgtggng tntgatgnca tactgntagg ccaacatgtg tccnaggnan agnggnangn 240
tnangccatt agcntggtgn aaacttgccg gatgttgatg ctctantaag anccgnatgt 300
gccatttntg aactntttag tantgangga gtcntggtgn tcaanatgga tntacanatg 360
cctanttacc cgnncntgnc taacnagant ntgcccaacc ttcatgtcat gaaggnnntn 420
nantctttta ttcccanngt tncctnaaac gaacantttg cctgnacaca ttttctactg 480
gnaccttacn aatnaggtta tcccgnatnt tcntgattac ttttcttctg cnncnngana 540
tngtgcctnt caccctactc ctntatccnt ccattnacct nttaggccat ncncctaaac 600
gnnntgcann tntnancntc cctnntnang aatttttctaa atangnntta attctctnnc 660
ctnacnttnc tcttcnnttc cnngnatttn nnttnnnntt cnctnttngn tntcnccnct 720
anttcaancn nctcttaant ttngcnnntc ctcnnttcnn t 761

<210> 3349
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3349
atacagctct tgttcttttt gcaggatccc atcgattcga attcggcacg aggactgttc 60
atcctaagtt ccactataaa caggctcatg actcgggcac agacacttct tgcgtgactt 120
tttcctatga tggtaatgtc cttgcctctc gtggaggtga cgattcatta aaattatggg 180
acatccgaca atttaataaa ccacttttt cagcctcggg tcttnccacc atgttcccaa 240
tgactgactg ctgtttcagt ccagatgata agctcattca ctggtacatc tattcaaaga 300
ggatgtggca gcggcaaact tgttttcttt gagcgtagga ctttccaaag ggtgtatgaa 360
atagacatca cagatgcgag tgttgntcgc tgcctgtggc atccaaagct gaaccanatc 420
atggttggaa ctggaaatgg attggctaaa gtctattacg accccacaag agtcagaggg 480
gagcaaaatt atgtgtggtt aaaacccagc ggaaggcaaa acaagctgag actctaactc 540
aggactacat catcacccct catgccttgc ctatgttncg ngagccccgc caacggagta 600
caaggnaaca gctggagaan gacagactgg atcccctgaa gtcgcataaa cctgaacctn 660
ctgtaccaag gcccaggtcg tggtggccga ntttggaacc cacnggggca ctttttttt 720
ctatattggg aanaacattg ttttggacaa aancgatgac agtaattctt cgggaagcn 779

<210> 3350
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3350
atgcggncaa tgctggctac tcgttctttc cgcaggancc cntcgattcg ctcacctgga 60
ataatgagat cttacctaac tgggaaacaa tgtggtgctc tagaaaagtt cgagatttat 120
ggtggcaggg aatccctcca agtgtgagag gcaaagtctg gagcttagcc attggcaacg 180
agttaaatat cacccacgag ctctttgaca tctgtcttgc ccgagccaag gagaggtggc 240
ggtcccttag cacaggaggc tctgaagtgg agaacgaaga tgctggtttt tcagcagcag 300
acagagaagc cagtctggag cttattaaac tggacatttc tagaacattt cctaatctct 360
gcattttcca gcaaggtggt ccatatcatg acatgttgca cagtattttg ggcgcttata 420
cttgttaccg gccagatgtg ggttatgtcc agggcatgtc cttcatagca gcagtgttga 480
tcttgaactt agatactgca gatgccttta ttgccttttc taaccttctg aataaaccct 540
gtcaaatggc gttttttaga gtggaccatg gccttatgtt gacttatttt gctgctcctc 600
cagaggtctg cacactccac ttcacatgcc gttgactctc acagtctaag acttcagggc 660
cgggaccttt gtccagcctg cacagtagag tgaggctgcc tctc 704

<210> 3351
<211> 924
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(924)
<223> n = A,T,C or G

<400> 3351
annnnggnnn nnnnnnnnnn annagnnnnn nagnngttga ntttgaaacc tttagccctt 60
ttgcagancc caccgnttcn gnagatgatg tggatanact tggatactcc cttgagtgga 120
anatannngt gttcagactg nncaagtnta nctccanaga ctttgaagtc tgctacccag 180
aggagcctct cagggactgg ccggagatct ccctgctgac cgagaacgac cgccactacc 240
acattccagt cntttaannc cgctgggggc cnaacagcag ngctcaccag tgacggtggt 300
cacagttgcn ataaagtngt ctctgaaacc aaagctagca tttcacnatg gaaggaatta 360

ngacctattc ttcaggatta caggtacact ggntgcaagc catgcatgga tggnttttct 420
taatnntnca gtngatttgc tctnaannca nctgcanatg aaaacanttg gcgagtnggg 480
ngncnggact ttgacccata naggggcgt nggccacttc acatgatggg cggggnctat 540
tgggaccaca aatnaaaggc cngcntggac ancaaacntg ggaaaaaann naagaangaa 600
aaaccacnnt aaagngaaaa nacangcntg accttgggag aggaaaaaaa aaccaagttt 660
taaccggtnn atggttcatt cattnaaaaa aacctnnanc ntcggacttg tattttggag 720
gggatttaan taccnaaana atngggncct tatttttnan aataaagcnn anaacctttt 780
accnaaagaa ancccnannt ttgggaatan tggcnatntc taaangggan cccatnnggg 840
attnaacntt gtnaaaaatt aactaanact ttcgggggaa aagttgncna aatngaaggt 900
ggntcanaaa naaaanaaga anng 924

<210> 3352
<211> 924
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(924)
<223> n = A,T,C or G

<400> 3352
annnnggnnn nnnnnnnnnn annagnnnnn nagnngttga ntttgaaacc tttagccctt 60
ttgcagancc caccgnttcn gnagatgatg tggatanact tggatactcc cttgagtgga 120
anatannngt gttcagactg nncaagtnta nctccanaga ctttgaagtc tgctacccag 180
aggagcctct cagggactgg ccggagatct ccctgctgac cgagaacgac cgccactacc 240
acattccagt cntttaannc cgctgggggc cnaacagcag ngctcaccag tgacggtggt 300
cacagttgcn ataaagtngt ctctgaaacc aaagctagca tttcacnatg gaaggaatta 360
ngacctattc ttcaggatta caggtacact ggntgcaagc catgcatgga tggnttttct 420
taatnntnca gtngatttgc tctnaannca nctgcanatg aaaacanttg gcgagtnggg 480
ngncnggact ttgacccata naggggcgt nggccacttc acatgatggg cggggnctat 540
tgggaccaca aatnaaaggc cngcntggac ancaaacntg ggaaaaaann naagaangaa 600
aaaccacnnt aaagngaaaa nacangcntg accttgggag aggaaaaaaa aaccaagttt 660
taaccggtnn atggttcatt cattnaaaaa aacctnnanc ntcggacttg tattttggag 720
gggatttaan taccnaaana atngggncct tatttttnan aataaagcnn anaacctttt 780
accnaaagaa ancccnannt ttgggaatan tggcnatntc taaangggan cccatnnggg 840
attnaacntt gtnaaaaatt aactaanact ttcgggggaa aagttgncna aatngaaggt 900
ggntcanaaa naaaanaaga anng 924

<210> 3353
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3353
ttacatcanc tcttgttctt tttgcaggat ccctcgattc gggctagcga tttctacctg 60
cgctactacg tagggcacaa gggcaagttt gggcacgagt ttctggagtt cgaatttcgg 120
ccggacggaa agcttagata tgccaacaac agcaattaca aaaatgatgt gatgatcaga 180
aaagaggctt atgtgcacaa gagtgtaatg gaagaactga agagaattat tgatgacagt 240
gaaattacaa aagaagatga tgctttgtgg cctcccctga tagggttggc cgacaggagc 300
ttgaaattgt aattggagat gagcacatat cttttaccac atcaaaaata ggttctctta 360

ttgatgtaaa tcagtcaaag gatcctgaag gccttcgagt attttactat ttggtacaag 420
acttgaaatg tttagttttc agtcttattg gattacactt caagattaaa ccaatttaaa 480
ttgtatgttt tcaggctgtt tgtatattta attaagggat gggangggtt atttgtcatt 540
tacagtattg gggtttttat gaatgtgaag caaacaaaaa aaatttgtat gtaaactgga 600
aataagaaaa tacattagca agccttaatg ggtatcctta ctttgagtcc acatggggtt 660
ggacagtccc cacaccccat taaattcttg taaatgaaag ccccccttt gttaaaaaat 720
ttgctctaat aaaaacatac caaatcctgg nnnanaaann nnnnnnnnnn nnnnnnnnnn 780
nnnct 785

<210> 3354
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3354
ttacatcanc tcttgttctt tttgcaggat ccctcgattc gggctagcga tttctacctg 60
cgctactacg tagggcacaa gggcaagttt gggcacgagt ttctggagtt cgaatttcgg 120
ccggacggaa agcttagata tgccaacaac agcaattaca aaaatgatgt gatgatcaga 180
aaagaggctt atgtgcacaa gagtgtaatg gaagaactga agagaattat tgatgacagt 240
gaaattacaa aagaagatga tgctttgtgg cctcccctga tagggttggc cgacaggagc 300
ttgaaattgt aattggagat gagcacatat cttttaccac atcaaaaata ggttctctta 360
ttgatgtaaa tcagtcaaag gatcctgaag gccttcgagt attttactat ttggtacaag 420
acttgaaatg tttagttttc agtcttattg gattacactt caagattaaa ccaatttaaa 480
ttgtatgttt tcaggctgtt tgtatattta attaagggat gggangggtt atttgtcatt 540
tacagtattg gggtttttat gaatgtgaag caaacaaaaa aaatttgtat gtaaactgga 600
aataagaaaa tacattagca agccttaatg ggtatcctta ctttgagtcc acatggggtt 660
ggacagtccc cacaccccat taaattcttg taaatgaaag ccccccttt gttaaaaaat 720
ttgctctaat aaaaacatac caaatcctgg nnnanaaann nnnnnnnnnn nnnnnnnnnn 780
nnnct 785

<210> 3355
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(686)
<223> n = A,T,C or G

<400> 3355
tgtgcncgga aagatnagcc aaatgctttc aaagagctng ggacaggaaa tagaatngct 60
acngtggctg atntatatga gtgatgtgtc tgcaggagga gccctgcttt tgctgaattg 120
gagctagtgt ttggcccaaa aaaggaactg ctgntttggn ataanctgtn ngccanngga 180
nancgagatt atagtacacg gcntgcagcc tgtncaggtg ctagttggca acaaatgggt 240
atncaataaa tggctccatg aacgtggaca agaatnnnca agaccttgtt cttntcagaa 300
ttggaatgac aaacnggctt ccctttttct cctatngntg gtactcttat gtgtctgata 360
tacacatttc ctngtcttaa cnttnaggga gttacaattg actaaacact tcatgattgg 420
nttcacncca tgancctna tcccanggtt tcatttgtgg acaattgctt acttttgngg 480
ggtcttttaa aaaggnacnc gaaatcttca ttattgccgt aaaaacctta aagatctgtt 540
ggnantcaca agaagacaaa nggccgaaat tttaaagggg agggaatttt tntattttna 600

aagaaccttt ttnggttgga nnaaaaacat aatttgagcn ttcnnctttt nagaattccc 660
ctaacatctc aggttgggtg gggngg 686

<210> 3356
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3356
nnttnnnttt taaagacttn canctctttt tctttntgca ggatcccatc gattcgaatt 60
cggcacgggg ggagcaaata atangccctt gtgtgtgttt ttggcagana agccatgaag 120
acaagcagat gctaataaaa gaatctgcat ctttgnttgt tattccatgt taaagggntg 180
aaataaaggt aanagaatat ttgtactgtt gttatccaaa tccatctcct gttctactct 240
ctattcaaaa taatcgtaca gtgactaaca gagctttcag accaacagta tttttatttt 300
tcattttaag ttcagggtac caacatttct ttccatggat gttgatggac gtgtcatcag 360
agctgactct ttttcaaaaa tcatttcctc tgggttgaga ataggatttt taactggtcc 420
aaaaccctta atagagagag ttattttaca catacaagtt tcaacattgc accccagcac 480
ttttaaccag ctcatgatat cacagcttct acacgaatgg ggagaanaag gtttcatggc 540
tcatgtagac agggttattg atttctatag taacccagaa ggatgcaata ctggcagctg 600
cagacaagtg gntaactggt ttggcagaat ggcatgtcct gctgctggaa tgtttttatg 660
gattaaagtt aaaggcttaa tgatgtaaaa agaactgatt gaagaaaagg ccgttaaaat 720
gggggtatta aagctcctgg aaatgtttct cgtcgatagc tcacttctan cccttacttg 780
agagcttctt 790

<210> 3357
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(686)
<223> n = A,T,C or G

<400> 3357
tgtgcncgga aagatnagcc aaatgctttc aaagagctng ggacaggaaa tagaatngct 60
acngtggctg atntatatga gtgatgtgtc tgcaggagga gccctgcttt tgctgaattg 120
gagctagtgt ttggcccaaa aaaggaactg ctgntttggn ataanctgtn ngccanngga 180
nancgagatt atagtacacg gcntgcagcc tgtncaggtg ctagttggca acaaatgggt 240
atncaataaa tggctccatg aacgtggaca agaatnnnca agaccttgtt cttntcagaa 300
ttggaatgac aaacnggctt ccctttttct cctatngntg gtactcttat gtgtctgata 360
tacacatttc ctngtcttaa cnttnaggga gttacaattg actaaacact tcatgattgg 420
nttcacncca tgancctna tcccanggtt tcatttgtgg acaattgctt acttttgngg 480
ggtcttttaa aaaggnacnc gaaatcttca ttattgccgt aaaaacctta aagatctgtt 540
ggnantcaca agaagacaaa nggccgaaat tttaaagggg agggaatttt tntattttna 600
aagaaccttt ttnggttgga nnaaaaacat aatttgagcn ttcnnctttt nagaattccc 660
ctaacatctc aggttgggtg gggngg 686

<210> 3358
<211> 705
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(705)
<223> n = A,T,C or G

<400> 3358
tatncataca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgagaaga 60
gaagctgaga cttctgcttc cacacccccc gcaagtgctt tcttgaaggc ctgggtgtat 120
cggccaggag aggacacgga ggaggaggaa gatgaggatg tggatagtga ggataaggaa 180
gatgattcag aagcagcctt gggagaagct gagtcagacc cacatccctc ccacccggac 240
cagagggccc acttcagggg ctggggatat cgacctggaa agagacagag gaagaggaag 300
ctgctgagga ctggggagaa gctgagccct gccccttccg agtggccatc tatgtacctg 360
gagagaagcc accgcctccc tgggctcctc ctagctgccc tccgactgca aaggcggctc 420
aagcgcccag aaacccctac tcatgatccg gaccctgaga ctcccctaaa ggccagaaag 480
gtgcgcttct ccgagaaggt cactgtccat ttcctggctg tctgggcagg gccggccang 540
ccgccgcang gccctgggag cagcttgtcg gatcgcagcc gttccacgcg atacccaagc 600
ccagagactg accctgctac ctntgccggc aagctgcccc tagaccactt accctctgct 660
accaactgct ctcttgctnn ccagcaacac cttngcantg gcnac 705

<210> 3359
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 3359
tnnnnnnttt atntttnata caanctcttg ttctttttgc aggatcccat cgattcgttt 60
ggattgattc agggagaaat ttgcactgat ggctcagaag cttacgtcat ggagagtatg 120
acctacctca cagcagggat gctggaccaa cctggctttc ccgactgctc catcgaggca 180
gccatggtga aggtgttcag ctccgagccg cctggcagtg tgtgagtgag gcgctgcaga 240
tcctcggggg cttgggctac acaagggact atccgtacga gcgcatactg cgtacacccg 300
catcctcctc atcttcgagg gaaccaatga gattctccgg atgtacatcg ccctgacggg 360
tctgcagcat gccggccgca tcctgactac caggatccat gagcttaaac aggccaaagt 420
gagcacagtc atggataccg ttggccggag gcttcgggac tccctgggcc gaactgtgga 480
cctggggctg acaggcaacc atggagttgt gcaccccagt cttgcggaca gtgccaacaa 540
gtttgaggag aacacctact gcttcggccg gacccgtgga gacacttntt gttccgcttt 600
ggcaagaaca tcatgganga acaacttggt acttgaaagc gggtgggcaa cattcctnat 660
tnaaccttgt attggcatga cnggccgtgc ttgtccgcng ggccaanccg cttccattcc 720
gcatttgggc ttncgnaaan ccaccgaacc acganggntt ttntttgggn ccaacaaccn 780
ttntggggtn gggaaacctt aactttgcaa gaaaattttt ttnaancctt ntttt 835

<210> 3360
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3360
tnnnnnnttt aaatccatta gctacttgtt ctttttgcag gatcccatcg attcgtgcgg 60
gagcacccga gcctgcggct ccagacggac gcccgcaagg tgaggtgcat cctgacaggt 120
cacgagctgc cctgccgcct gccggagctc caggtctaca cccgcggcaa aaagtaccag 180
cggctggtcc gcgcctcccc ggccttcgac tatgcagagt tcgagccgca catcgtgccc 240
agcaccaana acccgtangt ggtccncggc ggcgcgggga ggcccagggc aatnngacag 300
nccctccgnt tgactccgcc agtgctgcag nccctactct ttcanagttg ggagccctgg 360
gacccaggca ccaattgttc ttgcaaactc accctgcggc acatcaacaa gtgcccanaa 420
cacgtgctga ngcacaccca aggccggcgg taccagcgag cttttgtgta aatatgaaga 480
atgtctnaag caaggggtgg agtacatgcc tgctgcctgg tgcacccgan gangaagang 540
gaaggacaaa tggacngtga acggccttcg cccgcgggaa agcttctggg agcccacatt 600
caatgatgaa gggggagctg caagtgatga cagcatgaca gacctgtncc cctgactttt 660
caccagaagg accttgaaca cngaggatgg ggatggactg atgatttttg acaacaaaga 720
ggttgaaagg caaancccca aaaaaaaggc cttgtgaagg cagganaaan acaacctntc 780

<210> 3361
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3361
tnnnnnnttt aaatccatta gctacttgtt ctttttgcag gatcccatcg attcgtgcgg 60
gagcacccga gcctgcggct ccagacggac gcccgcaagg tgaggtgcat cctgacaggt 120
cacgagctgc cctgccgcct gccggagctc caggtctaca cccgcggcaa aaagtaccag 180
cggctggtcc gcgcctcccc ggccttcgac tatgcagagt tcgagccgca catcgtgccc 240
agcaccaana acccgtangt ggtccncggc ggcgcgggga ggcccagggc aatnngacag 300
nccctccgnt tgactccgcc agtgctgcag nccctactct ttcanagttg ggagccctgg 360
gacccaggca ccaattgttc ttgcaaactc accctgcggc acatcaacaa gtgcccanaa 420
cacgtgctga ngcacaccca aggccggcgg taccagcgag cttttgtgta aatatgaaga 480
atgtctnaag caaggggtgg agtacatgcc tgctgcctgg tgcacccgan gangaagang 540
gaaggacaaa tggacngtga acggccttcg cccgcgggaa agcttctggg agcccacatt 600
caatgatgaa gggggagctg caagtgatga cagcatgaca gacctgtncc cctgactttt 660
caccagaagg accttgaaca cngaggatgg ggatggactg atgatttttg acaacaaaga 720
ggttgaaagg caaancccca aaaaaaaggc cttgtgaagg cagganaaan acaacctntc 780

<210> 3362
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3362
tnnnnnnttt aaatccatta gctacttgtt ctttttgcag gatcccatcg attcgtgcgg 60
gagcacccga gcctgcggct ccagacggac gcccgcaagg tgaggtgcat cctgacaggt 120
cacgagctgc cctgccgcct gccggagctc caggtctaca cccgcggcaa aaagtaccag 180
cggctggtcc gcgcctcccc ggccttcgac tatgcagagt tcgagccgca catcgtgccc 240
agcaccaana acccgtangt ggtccncggc ggcgcgggga ggcccagggc aatnngacag 300

nccctccgnt tgactccgcc agtgctgcag nccctactct ttcanagttg ggagccctgg 360
gacccaggca ccaattgttc ttgcaaactc accctgcggc acatcaacaa gtgcccanaa 420
cacgtgctga ngcacaccca aggccggcgg taccagcgag cttttgtgta aatatgaaga 480
atgtctnaag caaggggtgg agtacatgcc tgctgcctgg tgcacccgan gangaagang 540
gaaggacaaa tggacngtga acggccttcg cccgcgggaa agcttctggg agcccacatt 600
caatgatgaa gggggagctg caagtgatga cagcatgaca gacctgtncc cctgactttt 660
caccagaagg accttgaaca cngaggatgg ggatggactg atgatttttg acaacaaaga 720
ggttgaaagg caaancccca aaaaaaaggc cttgtgaagg cagganaaan acaacctntc 780

<210> 3363
<211> 917
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(917)
<223> n = A,T,C or G

<400> 3363
ttatttcata aactattgtt ctttttgcag gatccatcga ttcgaattcg gcacgagggc 60
tgcgaggttt tcggctttgg ctcctgatat gcagcgacag aattttcggc ccccaactcc 120
tccttaccct ggtccgggtg gaggaggttg gggtagcgga agcagcttcc ggggaacccc 180
gggcgggggc ggaccacggc cgccctcccc tcgagacggg tacgggagtc cgcaccacac 240
gccgccgtac gggccccggt ctaggccgta cgggagcagt cactctccgc gacacggcgg 300
cagcttcccg gggggccggt tcgggtctcc gtcccctggc ggctaccctg gctcctactc 360
caggtccccc gcggggtccc agcagcaatt cggctactcc ccaaggcagg annanaanca 420
nccncanggt tntncaagga catntacacc atttggatca nggcgtntta naaaaaaaan 480
aatgttaatg anttggaaaa ntatttnaaa gcctttnaat gnttnnnnna atccttnggg 540
nttggcctta naaanccaan attntngtng gngggntntt aannccnnnc aantncnnnn 600
nnattncntt naaaacnttt nnnccanggn cnnaaaaaaa nggggnaann aaaaaacttt 660
tttnnttnaa nnantttttt tggaaaattt naaancntng gaaaancntt tnnntngttn 720
ntnangggaa annantnttt tgggnncnaa aaaacntttt naannnntnn nggttnnnan 780
nnnttaaaaa ntttnnnccc ccaannnnnt nnanngnanc ttttnnantt ngggantaaa 840
nttnnnnnna nggggnnttt tttnngnnna atttnnnnnn annnnnnnan nnangggnnt 900
ttngnnngna annntnn 917

<210> 3364
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3364
ttaatataca tacanctact tgttcttttt gcaggatccc atcgattcga attcggtacg 60
agatcagagg aggcttcttc atccttcaac tccatgatga actcctatat gaagtggcag 120
aagaagatgt tgttcaggta gctcagattg tcaagaatga aatggaaagt gctgtaaaac 180
tgtctgtgaa attgaaagtg aaagtgaaaa taggcgccag ctggggagag ctaaaggact 240
ttgatgtgta actgtgctgt tgatgaagtc ctcccaggga agcctgtgca gatgcagtca 300
cctggaaaga acagagatta ccctttcacc tacctcagca aaacaaactt tcaagtcttg 360
atagacttag cctagtaatt ttatagtgag agtttcaaac tatatatcag tgtctatagc 420
atcaaaaact tctgggggcg tgggggaagt agaataccaa gtataatagt tacattcact 480

ttcaaagagc atctatgaat ttgccttttg tacttactgt ggctttaaac atattcagaa 540
cagatgcttg aaatatgcac ttagcacttt ggttncacat ctgtctgggt aaaccatgaa 600
gaaaatgaac tgctgcctca atcgacccag acagcaccat aggcagataa agaattggnt 660
tcaccctggt ggtggtaggc atcgcgtgtg actttttttn ctctatatca attttcagta 720
cgggaatagt attttaaaat agattggctn ataaattatg aatctttaag tagtagan 778

<210> 3365
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3365
gtnnnnngtt tgannnccat cnttttatat ncatttttct actngttctt tttgcaggga 60
tccctcgatt cgaattcggc acgaggggcg aaaaagatga ccgaaattca aactcctgaa 120
aatactcctc gtttatttga tttagtaaaa gtnaaagatg agaaaattcg ccaagctttt 180
tattttgctt tacgagatac cttagtagct gacaacttgg atcaagccac aagagtagca 240
tatcaaaaag atagaagatg gagagtggta actttacagg gacaaatcat agaacagtca 300
ggacaatgac tggtggtgga agcaaagtaa tgaaaggaag aatgggttcc tcacttgtta 360
ttgaaatctc tgaagaagag gtaaacaaaa tggaatcaca gttgcaaaac gactctaaaa 420
aagcaatgca aatccaagaa cagaaagtac aacttgaaga aagagtagtt aagttacggc 480
atagtgaacg agaaatgagg aacacactta gaaaaattta ctgcaagcat ccagcgttta 540
atanagcang aagaatattt gaatgtccaa gttaaggaac ttgaagctaa tgtacttgct 600
acagcccctg acaaaaaaag cagaaattgc tagaagaaac gttgtgcttc aaacaaatat 660
gatgctgtgg ctgagaagct gtaaagtaaa actgagttaa ccttcccata catcgtgaat 720
atatctactc aggcacagca cttgtaataa tacataatat gnttg 765

<210> 3366
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 3366
ncttnaagcc cttttaaanc cgttcgaccc atcgatccna ntcaggancc aancnanatc 60
naatctgnac gaaggaaccc cccncnttga gcnnaaactn nncncttnct ggggcaanag 120
ggtggactgg gnnnnangng nanagagaga acgcanggcc annaaggana gaaaaccntt 180
cagcanctca atnaactgcg ggccaagana tctacccgtc tcccttctcn cacaagnacc 240
attggccttn nnatcngaag catttgacaa aaacttgctt gtttgggcct gtcacctcct 300
gaaaggctgn tttagntgtg gatgncctng attaagggag agagcaccta ggagctgcct 360
gccccagctg gggtgacggc tgtagggctg ggtctatgtt gcaagcccta tatcctagcn 420
tgcagnggaa agtgcttagc tntgtncctg ctgacctctg ggcagncant catcaaanca 480
nanagacgtg gcngcntgtg ggcagcatgc ccaantncct tgcttgactn agcactnatt 540
tctggtagnn tnaaaaaaga attnaangtt tnttgggnnn ntttttttgg ggggngttga 600
ggggtgggcc aaaaacatgg ggggtagnnt ttgagttgtt anaaaatgtn tntgaatcaa 660
nntntnttnt nnaaacacga tttgcctttt tacccattat aaagatgggn cttatnaccc 720
acngnactgg ataaaccttt ngggtttttt ttggtntgga nttggttctt tnaaaaaatt 780
tacccaattc atgccctnng ggntccn 807

<210> 3367
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3367
gnnnnttttn nnnntntaaa cccttnagct actcgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggctgc cacaggggg caatctttat ttgtcttact tcctaccct 120
tccctgttct gcctctttaa ctcagttaag ttgttctgtt tgggacctgg aaaagaaccc 180
aaagaaaacc tgagtggaca ggttcatttc tggaatgcag aaaacatttt aaaggctaga 240
tttttagaat attctcaact agcattcttt ccattgattt gaaggggaat taactattat 300
aatctcttga atccaaaact ggatattaag aactttcccc cttactaagt ttaagacttt 360
tgtcatgtgg tgagtcaaat aagaccattt tgattgtaaa ccataaaata gttcagcaag 420
tagcccacag ttctggccta acagcagact tgctgttttc acttggtatc ctggagttgg 480
gttgctaacc ttaatttcta tgatgttttc taaaatgaaa cttgataaag tagaccacca 540
gctgcaccgt gttttctgta aaagtattgt tagtaagtgg ccaagagact tgaggaaaat 600
acagattttt tggttacctt ggtcttggtt taagtcttaa aaaattaaag ataacattat 660
aatgtagaat cagatgggac atagtccttg taagcttncc ttggaaatgt tttaaatatt 720
taggaagctt ttaaaagacc taaattgtac tctaaaagac actnaattgt ctaatgtaca 780
aaggn 785

<210> 3368
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3368
gnnnnttttn nnnntntaaa cccttnagct actcgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggctgc cacaggggg caatctttat ttgtcttact tcctaccct 120
tccctgttct gcctctttaa ctcagttaag ttgttctgtt tgggacctgg aaaagaaccc 180
aaagaaaacc tgagtggaca ggttcatttc tggaatgcag aaaacatttt aaaggctaga 240
tttttagaat attctcaact agcattcttt ccattgattt gaaggggaat taactattat 300
aatctcttga atccaaaact ggatattaag aactttcccc cttactaagt ttaagacttt 360
tgtcatgtgg tgagtcaaat aagaccattt tgattgtaaa ccataaaata gttcagcaag 420
tagcccacag ttctggccta acagcagact tgctgttttc acttggtatc ctggagttgg 480
gttgctaacc ttaatttcta tgatgttttc taaaatgaaa cttgataaag tagaccacca 540
gctgcaccgt gttttctgta aaagtattgt tagtaagtgg ccaagagact tgaggaaaat 600
acagattttt tggttacctt ggtcttggtt taagtcttaa aaaattaaag ataacattat 660
aatgtagaat cagatgggac atagtccttg taagcttncc ttggaaatgt tttaaatatt 720
taggaagctt ttaaaagacc taaattgtac tctaaaagac actnaattgt ctaatgtaca 780
aaggn 785

<210> 3369
<211> 1000
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1000)
<223> n = A,T,C or G

<400> 3369
aatttttttn nnccnaattt ttcccnaagg gccccttaac cttttgggtt tttccctttt 60
ttttttttgg gcccaanggg gaaattcccc cccccaattc ccggnaattt ttcccggnaa 120
aaatttttcc cggggcccna cccggnaagg gggaaggggg gaaaaatttt taacccaggg 180
gggtttaagg gcccaaaaaa aaatttttaa ttgggggggaa gggntttggg ggggaagggg 240
gnaacccagg gtttanttgg aaaaccccccc ccnatttttt tgggaccntt ttttgcccac 300
ccgggggaaa aaagggaatg gaaagccccc aannaatggg ccttttttcca aaaaagaaag 360
ccttgggggg ggaccaaggg gaaaaataag aaattggctt accatgggct tggttttata 420
tgaatgatgt gtctgcagga ggaccctgtt tttctgaagt tggactagtg ttgcccaaaa 480
aaagaactgt gtttggtata atctgttgca gtggagaagg agatatagtc acggcatcac 540
ctgtcagtgc tagtggcaac aaatgggtat caataaatgg ctcatgaacg tggacaagaa 600
tttcgaagac cttgtcgttg gncagaattg gaatgacaaa caggcttccc tttttctcct 660
attggtggna ctcttatgtg ctgatataca catttcctag tcttaacttt caggagttta 720
caattgacta acactccatg attgattcag tcatgaacct catcccatgt ttcatctgtg 780
ggacaattgc ttactttggt gggttctttt aaaaagtaac acgaaatcat catattgcat 840
aaaaccttaa aagttctgtt ggtattcaca agaaagacaa aggcagaagt ttaaaagtgg 900
anggaatttt atattttaaa gaacttttttg ggttggataa aaacataatt tgagccatcc 960
nagttttaag tantttcact acatctcaat tgggtgggtg 1000

<210> 3370
<211> 1000
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1000)
<223> n = A,T,C or G

<400> 3370
aatttttttn nnccnaattt ttcccnaagg gccccttaac cttttgggtt tttccctttt 60
ttttttttgg gcccaanggg gaaattcccc cccccaattc ccggnaattt ttcccggnaa 120
aaatttttcc cggggcccna cccggnaagg gggaaggggg gaaaaatttt taacccaggg 180
gggtttaagg gcccaaaaaa aaatttttaa ttgggggggaa gggntttggg ggggaagggg 240
gnaacccagg gtttanttgg aaaaccccccc ccnatttttt tgggaccntt ttttgcccac 300
ccgggggaaa aaagggaatg gaaagccccc aannaatggg ccttttttcca aaaaagaaag 360
ccttgggggg ggaccaaggg gaaaaataag aaattggctt accatgggct tggttttata 420
tgaatgatgt gtctgcagga ggaccctgtt tttctgaagt tggactagtg ttgcccaaaa 480
aaagaactgt gtttggtata atctgttgca gtggagaagg agatatagtc acggcatcac 540
ctgtcagtgc tagtggcaac aaatgggtat caataaatgg ctcatgaacg tggacaagaa 600
tttcgaagac cttgtcgttg gncagaattg gaatgacaaa caggcttccc tttttctcct 660
attggtggna ctcttatgtg ctgatataca catttcctag tcttaacttt caggagttta 720
caattgacta acactccatg attgattcag tcatgaacct catcccatgt ttcatctgtg 780
ggacaattgc ttactttggt gggttctttt aaaaagtaac acgaaatcat catattgcat 840
aaaaccttaa aagttctgtt ggtattcaca agaaagacaa aggcagaagt ttaaaagtgg 900
anggaatttt atattttaaa gaacttttttg ggttggataa aaacataatt tgagccatcc 960
nagttttaag tantttcact acatctcaat tgggtgggtg 1000

<210> 3371
<211> 924
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(924)
<223> n = A,T,C or G

<400> 3371
annnnggnnn nnnnnnnnnn annagnnnnn nagnngttga ntttgaaacc tttagccctt 60
ttgcagancc caccgnttcn gnagatgatg tggatanact tggatactcc cttgagtgga 120
anatannngt gttcagactg nncaagtnta nctccanaga ctttgaagtc tgctacccag 180
aggagcctct cagggactgg ccggagatct ccctgctgac cgagaacgac cgccactacc 240
acattccagt cntttaannc cgctgggggc cnaacagcag ngctcaccag tgacggtggt 300
cacagttgcn ataaagtngt ctctgaaacc aaagctagca tttcacnatg gaaggaatta 360
ngacctattc ttcaggatta caggtacact ggntgcaagc catgcatgga tggnttttct 420
taatnntnca gtngatttgc tctnaannca nctgcanatg aaaacanttg gcgagtnggg 480
ngncnggact ttgacccata naggggggcgt nggccacttc acatgatggg cggggnctat 540
tgggaccaca aatnaaaggc cngcntggac ancaaacntg ggaaaaaann naagaangaa 600
aaaccacnnt aaagngaaaa nacangcntg accttgggag aggaaaaaaa aaccaagttt 660
taaccggtnn atggttcatt cattnaaaaa aacctnnanc ntcggacttg tattttggag 720
gggatttaan taccnaaana atngggncct tatttttnan aataaagcnn anaacctttt 780
accnaaagaa ancccnannt ttgggaatan tggcnatntc taaangggan cccatnnggg 840
attnaacntt gtnaaaaatt aactaanact ttcgggggaa aagttgncna aatngaaggt 900
ggntcanaaa naaaanaaga anng 924

<210> 3372
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3372
ttccatcagc tcttgttctt tntgcaggat ccctcgattc gaattcggca cgagattcca 60
aaggttncaa anaacttggt cataantatg atnatgagaa gacancgtct ttctnttaaa 120
acagnttant ngccttcact tttgtgaaaa tagnnttcan cacanaaact gacttnttta 180
gacaaagttn taaccaatga tngngtnngc ttctaggata tacactctaa ancaactcac 240
tgtcccacgt ggtggtcatt gctggccnta ntnanttggn cctgcntaan natattgata 300
tctaatttcn tttaaccacc ntnantngnc cttanttacc ancngggnnn nactncacgn 360
ggcaactgng gcntngcntn cttnnccagc tcatggtgng tgaatgttat acaaattgcc 420
actcagatat atttttggnc gtaatggggg gtacaaatga tcatgtgatg tgtncactca 480
tntggtgcaa agtgccccng gcaccaacng ngncnnggtn ctcanccaca accntgctnc 540
ctctgagatn cacnnccent cancctccga gtaangagtt gcgntacaac tcatcaangg 600
nanactggnt aatattaaaa atcatccnat atgnccatac tttncctntt ttgtancctg 660
cccaannatc ccgtcaaagg gnngtgtttn tctngctaat ttcccaccag ntggnntann 720
nttaattccn ctcaggganc aaanngttca caatgccttt ctttttttcc cgnngggntt 780
ttggaagcn 789

<210> 3373
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(869)
<223> n = A,T,C or G

<400> 3373
atttcaaaaa ctcttgcctt nttaaanacc tnncgntact cgatcntnca cgaggaanga 60
ggacctaggc acacacatat ggtggccaca cccaggaggg tagtggngag ttagatttna 120
gagtccaggc cctaggttgg gacccactcc aaataatctc ctcggtgtgg gtggtggttn 180
tatanangga taaatgaata ataaacattn ntaaaatata cgctattcct tgntggaaat 240
gcctgctgca cccccgtttc cantgacntn ccgaangngg ntatnnggtg gtcantggaa 300
tnacagtcaa tccanangtn anccngcngg gntgcatcaa gctgncctcg cacctgggnt 360
nnncaccctc tggcccacac tggtnatgat gccacacctt nccatgttca cnctgtttgg 420
aaaaannnct tttnttttcc tcttttaaag agaaaacatt ganaaagatt tttttttta 480
atgggccgac ccnaaaaggg agatctnccc nnccttgtat atnatantnn tgaccctncc 540
tacnaagang gcgtttttgg caaaatnatt nttttntttt tcncgnggtg gtgggggaaa 600
aatttttcct gggggggggcc ttngnngccn aactnttaat tttccccatt aaggcaannt 660
ttctttgggg gnctttcccc nggggcttaa ncnttaaact ttggaatttt tntnggggtt 720
ggttngnccn taaatttta nnaaaatggt ngtcnaaccc aaaaaaaaat ntnacccccg 780
ggggccnaan antttttncc ccccccttgga ngccttttan tttcccccac aaacttttt 840
tttttccctt ccaaccnctt ttattcttt 869

<210> 3374
<211> 1128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1128)
<223> n = A,T,C or G

<400> 3374
gnngggnnn nnnnnnnggg gnggggnnn ggcgnnnggn ncgncggnnn ancnnnnnnn 60
nncnnnnggg ggnnnccccc cgggtttttt ggccaaaatn ttgggccnaa naaacccagg 120
gcccttacct nggggncccc cttttnttttt tgggcccang gggnnagccc nccncgnncc 180
cgggnanggg ggccngggggg gnagggcccc gcngcnaang ccgnaggggg gggggcncg 240
cggcccccnc ccannngncc aagaganaaa nnnaggcggc nnagngaang nggaanncccc 300
ntggggcnng gggnnanana nccaagnggg agggggggggg ggggccggcc gggntcgggg 360
gagnnacggn cantnggncn gggggggnggg aggggcacag ggggaggagg ncttnnggng 420
gggngagcga gcgcggggcn cnancagngn gggancncnn gcaangggca nnagangccg 480
nggnccacct acnnggggga ngcaaggcnn tngnagtnat ngggggnagg agcaaaaang 540
ggngncccng ngctaggncg ancntggggg agggagcnng ccngaacagc ngggggggnnc 600
tgggngagaa cnggagcgng ncngnacggc ccnggagaca aggagcgtct gggggagggc 660
gatggcaagg ggtatgggng gctgggacan gnggggggacc cnagngnaaa nncgtgnggc 720
aagngggacg tnnggggngn nngctggata agggncgcaa ggtaccnagn cgggnncagg 780
gngncactgg nangcaggga gagccgagga cggnnagngc gnggntgagg gnacgncgng 840
gangacgtgc caggnaaccc nggggncgng ggcgggnaaa cnngncgagc ncgccggggc 900
ngcgtcgcag agcgnggnnn aggcganngg gtnaaggngg nggngngggn angnnggggg 960
cgaggggncn aaggatnnng agggggggnac acntgggccn ganggcatgg ncgngcncgg 1020
ggccgaaaca cgggaacgcg gggggagggc angngngggg nctgggggnc cgnccggnag 1080
gggnacnggg ggcgggggcg cagtggncag tgtgnnngcg gcgagccg 1128

<210> 3375
<211> 1128
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1128)
<223> n = A,T,C or G

<400> 3375
gnnggggnnn nnnnnnnggg gngggggnnn ggcgnnnggn ncgncggnnn ancnnnnnnn 60
nncnnnggggg ggnnnccccc cgggtttttt ggccaaaatn ttgggccnaa naaacccagg 120
gcccttacct nggggncccc cttttntttt tgggcccang gggnnagccc nccncgnncc 180
cgggnanggg ggccnggggg gnagggcccc gcngcnaang ccgnaggggg ggggggcncg 240
cggcccccnc ccannngncc aagaganaaa nnnaggcggc nnagngaang nggaannccc 300
ntggggcnng gggnnanana nccaagnggg agggggggggg ggggccggcc gggntcgggg 360
gagnnacggn cantnggncn gggggggnggg aggggcacag ggggaggagg ncttnnggng 420
gggngagcga gcgcggggcn cnancagngn gggancncnn gcaangggca nnagangccg 480
nggnccacct acnnggggga ngcaaggcnn tngnagtnat ngggggnagg agcaaaaang 540
ggngncccng ngctaggncg ancntggggg agggagcnng ccngaacagc ngggggggnnc 600
tgggngagaa cnggagcgng ncngnacggc ccnggagaca aggagcgtct gggggagggc 660
gatggcaagg ggtatgggng gctgggacan gnggggggacc cnagngnaaa nncgtgnggc 720
aagngggacg tnnggggngn nngctggata agggncgcaa ggtaccnagn cgggnncagg 780
gngncactgg nangcaggga gagccgagga cggnnagngc gnggntgagg gnacgncgng 840
gangacgtgc caggnaaccc nggggncgng ggcgggnaaa cnngncgagc ncgccggggc 900
ngcgtcgcag agcgnggnnn aggcganngg gtnaaggngg nggngngggn angnnggggg 960
cgaggggncn aaggatnnng agggggggnac acntgggccn ganggcatgg ncgngcncgg 1020
ggccgaaaca cgggaacgcg gggggagggc angngngggg nctgggggnc cgnccggnag 1080
gggnacnggg ggcgggggcg cagtggncag tgtgnnngcg gcgagccg 1128

<210> 3376
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 3376
aantacatca gctnttntct ttttgcagga tcccatcgat tcgagaaagt gctagcacag 60
tttgtgttgt ggatttgcta cttccatagt ttacttgaca tggttcagac tgaccaatgc 120
atttttttca gtgacagtct gtagcagttg aagctgtgaa tgtgctaggg gcaagcattt 180
gtctttgtat gtggtgaatt ttttcagtgt aacaacatta tctgaccaat agtacacaca 240
cagacacaaa gtttaactgg tacttgaaac atacagatat gttaacgaaa taaccaagac 300
tcgaaatgag attattttgg tacacctttc tttttagtgt cttatcagtg ggctgattca 360
ttttctacat taatcagtgt tttctgacca agaatattgc ttggattttt ttgaaagtac 420
aaaaagccac atagtttttc cagaaaggtt tcaaaactcc caaagattaa cttccaactt 480
ataagtttgt ttttatttte aatctatgac ttgactggta ttaaagctgc tatttgatag 540
taattaaata tgttgtcatt gatataaacc tgtttggttc agcaaacaaa ctaaaatgat 600
tgtcataaga caggggtttt atttttcctg gtgggngtng ctgatttgng gagcatgcct 660
ttaagaatga aaaaagcctg gaatggataa ccttccctta aaaaaggngc cggcattcca 720
attcaaaata ttttcgtcct ggatttnaaa gctggttggg gtaatgctaa ttaaaaattc 780
cttcagttaa ttt 793

<210> 3377
<211> 828

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 3377
tccctttng aaagctttaa acctttttta aaccnttcag ctcgggnccc attgcngann 60
cnatctantc nnngccggcn ccgcncngnn gtntnncatt nataaanngc ttgaanatna 120
tgatgtngcc ntctagnnac nnagatttga ntccgnttan ngaatgtgga aatntgcnct 180
ggaagaaatg ttnncnttna tgatagctcg tgnatggaaa aaagngcact gnatttatta 240
cacaaactta cnaatgcttn acttctttac acaacatnng tnaantnata tttgggntat 300
tgcatnctat naacaatttg tgnatgnntt aanatggtgt tnatnactnt gntnnncgnc 360
annntgtttt taacnnatan tggccctaaa atatgggtgt gcttatataa tcgcttactt 420
ctggnactgn aacngnnnta cngaggacag ntgggntttn aaccctcttn ttgnacgttt 480
gccngaccta cntggnctan tatggattct aaaagtactt caatgnnctt annaagaaac 540
atatccttgn ggngtattta gatgcttttt gattataccc acacaatncc tgaggggaca 600
ttttggggcn tngaatataa aacanttnna tntccactta ncatctgccc cccngnggta 660
agttactatt ngttnngcng gtacaactaa atnnctttтc ccantntttn aattgggaaa 720
taggggcgaa tnnctangnc tttantggnt ggtnctgggc ctcaatggac natnnaacaa 780
ttgnnaaana caaatntgta aatcccggaa ttcctnataa aaaaaant 828

<210> 3378
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 3378
nnnnnnnntt nnttttnata tacatncagc tcttgttctt tttgcaggat cccatcgatt 60
cgctgacaac ttgattgggt tctccttcag gtttgaagcg ccctcgagaa gtgtctaaag 120
gagacagttg atagccaaac aacagttttg gattcactga ctgattatga aagaagcagt 180
agactggtat caagaatcag tcagcaagga ggccctcacc agacgccagt gccatgttct 240
tggacttctc agcctccata ttcatgaact aagtttttgg aatccttagg cttccngtgt 300
ggaaagcctg agctaaccta ctggaggatg agccatcacc tggagcagat tcaggccatc 360
ctagttgaag cctccctagg ccaagcaacc gtccaactac cagacattga ccattcagcc 420
ttgaacattc agcacaaaga caaaacagac cagaccagaa gagtcccaca gaatagggga 480
aactattcag agaaaactta agccactaag ttttatggtg ttttgttctg tagcagaagc 540
ataggcatac tgacaataca aaccgaaatc cttctaacgt agtggacctt ttcaggccac 600
atttttтnct tgaaaacctg gagcatgtat catcttatag cagagatcac tttcacaatg 660
tttgggctct tgatttgaat tgatgatgta atgagccctc tatncagatg nnactaatta 720
ctctgcgaat tgactgggat tcacaccctt ctaatatttt acttttcctc ttttatcaac 780
tctcattctc gct 793

<210> 3379
<211> 686
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(686)
<223> n = A,T,C or G

<400> 3379
tgtgcncgga aagatnagcc aaatgctttc aaagagctng ggacaggaaa tagaatngct 60
acngtggctg atntatatga gtgatgtgtc tgcaggagga gccctgcttt tgctgaattg 120
gagctagtgt ttggcccaaa aaaggaactg ctgntttggn ataanctgtn ngccanngga 180
nancgagatt atagtacacg gcntgcagcc tgtncaggtg ctagttggca acaaatgggt 240
atncaataaa tggctccatg aacgtggaca agaatnnnca agaccttgtt cttntcagaa 300
ttggaatgac aaacnggctt ccctttttct cctatngntg gtactcttat gtgtctgata 360
tacacatttc ctngtcttaa cnttnaggga gttacaattg actaaacact tcatgattgg 420
nttcacncca tgancctna tcccanggtt tcatttgtgg acaattgctt acttttgngg 480
ggtcttttaa aaaggnacnc gaaatcttca ttattgccgt aaaaacctta aagatctgtt 540
ggnantcaca agaagacaaa nggccgaaat tttaaagggg agggaatttt tntattttna 600
aagaaccttt ttnggttgga nnaaaaacat aatttgagcn ttcnnctttt nagaattccc 660
ctaacatctc aggttgggtg gggngg 686

<210> 3380
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3380
ttccatcagc tcttgttctt tntgcaggat ccctcgattc gaattcggca cgagattcca 60
aaggttncaa anaacttggt cataantatg atnatgagaa gacancgtct ttctnttaaa 120
acagnttant ngccttcact tttgtgaaaa tagnnttcan cacanaaact gacttnttta 180
gacaaagttn taaccaatga tngngtnngc ttctaggata tacactctaa ancaactcac 240
tgtcccacgt ggtggtcatt gctggccnta ntnanttggn cctgcntaan natattgata 300
tctaatttcn tttaaccacc ntnantngnc cttanttacc ancngggnnn nactncacgn 360
ggcaactgng gcntngcntn cttnnccagc tcatggtgng tgaatgttat acaaattgcc 420
actcagatat atttttggnc gtaatggggg gtacaaatga tcatgtgatg tgtncactca 480
tntggtgcaa agtgccccng gcaccaacng ngncnnggtn ctcanccaca accntgctnc 540
ctctgagatn cacnncccnt cancctccga gtaangagtt gcgntacaac tcatcaangg 600
nanactggnt aatattaaaa atcatccnat atgnccatac tttnncctntt ttgtancctg 660
cccaannatc ccgtcaaagg gnngtgtttn tctngctaat ttcccaccag ntggnntann 720
nttaattccn ctcaggganc aaannngttca caatgccttt ctttttttcc cgnngggntt 780
ttggaagcn 789

<210> 3381
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3381
naacacttng ctacnngttc tttttgcagg atcccatcga ttcgaattcg gcacgaggag 60

atctctggga tgtcagtgag gctggttgaa gaccagaggt aaactgcaga ggtcaccacc 120
cccaccatgt cccaggtgat gtccagccca ctgctggcag gaggccatgc tgtcagcttg 180
gcgccttgtg atgagcccag gaggaccctg cacccagcac ccagccccag cctgccaccc 240
cagtgttctt actacaccac ggaaggctgg ggagcccagg ccctgatggc ccccgtgccc 300
tgcatggggc cccctggccg actccagcaa gccccacagg tggaggccaa agccacctgc 360
ttcctgccgt cccctggtga gaaggccttg gggaccccag aggaccttga ctcctacatt 420
gacttctcac tggagagcct caatcagatg atcctggaac tggaccccac cttccagctg 480
cttcccccag ggactggggg ctcccaggct gagctggccc agagcaccat gtcaatgaga 540
aagaaggagg aatctgaagc cttgggtaag gatttggggc acagtaccag gagggggct 600
tggtgccaga cctcatgagg aagaaggatt ttcctatgta cagagaaggg gacccctgtc 660
ctgttgggan gtgctgtgca aacctaacca aagttactaa cccctctggt ttctgnggtt 720
acacaaangg ggataaatac aaagctttnc ctnaactagc caattctatt tgggtttcct 780
gagt 784

<210> 3382
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3382
aaccaccagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagtgaa 60
agttcaaaca gaaattgcat tgttattaca gagaaagcaa gaactagttg cagaactgga 120
ccaggatgaa aaggaccagc aaaatacatc tcgcctggta caggaacata aaaagctttt 180
agatgaaaac aaaagccttt ctacttacta ccagcaatgc aaaaaacaac tagaggtcat 240
cagaagtcag cagcagaaac gacaaggcac ttcatgattc tctgggaccg ttacattttg 300
aaatatgcaa agaaagactt tttttaagga aaggaaaacc ttataatgac gattcatgag 360
tgttagcttt ttggcgtgtt ctgaatgcca actgcctata tttgctgcat ttttttcatt 420
gtttattttc cttttctcat ggtggacata caatttttact gtttcattgc ataacatggt 480
agcatctgtg acttgaatga gcagcacttt gcaacttcaa aacagatgca gtgaactgtg 540
gctgtatatg catgctcatt gtgtgaaggc tagcctaaca gaacaggagg tatcaaacta 600
gctgctatgt gcaaacagcg tccatttttt catattagag gtggaacctc aagaatgact 660
ttattcttgn atctcatctc aaaatattaa taatttttt nccaaaaaga tggtatatac 720
caagttaaag acagggtatt ataaatttag agtgattgnt ggatattacc ggaaa 775

<210> 3383
<211> 1044
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1044)
<223> n = A,T,C or G

<400> 3383
naacgcnngc tacttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagcccc 60
ggtcgtgtag cggtggtata ctacggtcaa tgctctgaaa tctgtggagc aaaccacagt 120
ttcatgccca tcgtcctaga attaattccc ctaaaaatct ttgaaatagg gcccgtattt 180
accctatagc accccctcta gagccaatan annaantnat nntnnnaanc ncnnnancnt 240
ananaanctc nancctttan aactntnnng agtcntnntn annnnnatnc anacatgntc 300
ncatacatcn cttattttgg ncnnnccnnn cctnnanngc ncnnnnanan angcnntntt 360

ntcaaattnn nnnncnnncg nnnnnnnntc nnnccatnnc nnnncnnttc tacnnatnnc 420
nnnntnctac nnntccnntn cnttnnaann tntccncncc ntnncngnnn nctnncnnnt 480
tnnnntnnnn nnnnnnncnn ntctnncncc cnnnncntcc nnnnnnnncc nnnntcnnnc 540
tncnnnnnnc ncnnctnntn tnnccnnnnc nnttnntnnn nnnntncnnc nnntnnnnnt 600
nnnnnnnnnn ncntncnnnn nnntnnnncn nnnnnnnnnn tnnnnnnnnn nntnnnnncn 660
nnncncnncn nnnnnnnnnn nntnnnnncn nnntnnccnn tnnnnnnnnc nncntnnnnn 720
nnctnannnc nnnnnnctnt nnnnnncnnn nnnnctnnnn cnntcnctct cnncccnntn 780
tatcncnnna nnnnnttncn nnnnnnannn nnnnctnnnn ntcnnncnnn cnnnncnnnn 840
nntnnncnnn cnntncncnn tnncnnnnnn nnnccnnnnn nntctnnnnc nnncncncct 900
nnnnntnctn nnncnnncnn nnnnnnnntn tctcnctnnn cncntnnnnn cntncnctac 960
ncnctnnccn cnanccnnnn tncatnnctn nnntcnctnt tacctttacn nccncncncc 1020
cttnccnatn acncaatncc ncct 1044

<210> 3384
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3384
tcaacagctg gctactcgtt ctntntgcag gatcccatcg attcgaattc ggcacgagca 60
gccttggtga cagagcgaga ccctgtctct aaaaaataaa taaataaaat attgtgagtc 120
tctgatgggg agcagtattg catggtggtt gagaactgag gctctgatgt tagaactgga 180
ttctgactta acccactgtt tgcccacatc ttgagccttg gtttccctat ctgtaaaatg 240
gcagtattct cgggctggct gaggaaagga aatgaggcca ggcgcggtgg ctcaggcctg 300
taatcccagc actttggcag gctgaggcag gtggatgatt tgaggccagg agtttgagat 360
cagcctgacc aacatggcaa acccccgcgt ccactaaaaa tagaaaaaaa tagctgggca 420
tggtggtgca cccctgtagt ctcagctact tgggagacag aagcaggaga attggttgaa 480
cttggaaggt ggaggttgca gtgagctgag atcgcaccac tgcactccat cctgggcgac 540
agagcaagac tgtctcaaaa taaataaata aataaataaa taaagttaaa aaanaaaaaa 600
aaaaactcga gcctctagaa ctatagtgag tcgtattacg tagatccaga catgataaga 660
tacattgatg agttcggaca aacccacaac tagaatgcan tgaaaaaaaa tgctntattt 720
gtgaaatttg tgatgctatn gcttttattt gtaaccatta taagctgcaa ttaaccagtt 780
aaa 783

<210> 3385
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3385
tcaacagctg gctactcgtt ctntntgcag gatcccatcg attcgaattc ggcacgagca 60
gccttggtga cagagcgaga ccctgtctct aaaaaataaa taaataaaat attgtgagtc 120
tctgatgggg agcagtattg catggtggtt gagaactgag gctctgatgt tagaactgga 180
ttctgactta acccactgtt tgcccacatc ttgagccttg gtttccctat ctgtaaaatg 240
gcagtattct cgggctggct gaggaaagga aatgaggcca ggcgcggtgg ctcaggcctg 300
taatcccagc actttggcag gctgaggcag gtggatgatt tgaggccagg agtttgagat 360

cagcctgacc aacatggcaa acccccgcgt ccactaaaaa tagaaaaaaa tagctgggca 420
tggtggtgca cccctgtagt ctcagctact tgggagacag aagcaggaga attggttgaa 480
cttggaaggt ggaggttgca gtgagctgag atcgcaccac tgcactccat cctgggcgac 540
agagcaagac tgtctcaaaa taaataaata aataaataaa taaagttaaa aaanaaaaaa 600
aaaaactcga gcctctagaa ctatagtgag tcgtattacg tagatccaga catgataaga 660
tacattgatg agttcggaca aacccacaac tagaatgcan tgaaaaaaaa tgctntattt 720
gtgaaatttg tgatgctatn gcttttattt gtaaccatta taagctgcaa ttaaccagtt 780
aaa 783

<210> 3386
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3386
caacgctngc tacnngttct ttttgcagga tcccatcgat tcgaattcgg cacgagcaaa 60
gaggtacaga gtgaagacag tgtcctcctg tttgttattg catggacgat cacggaaatc 120
atccgttact ccttttatac attcagtcta ttaaaccatc tgccttacct catcaaatgg 180
gccaggtaca cacttttcat tgtgctgtac ccaatgggag tgtcaggaga actgctcaca 240
atatatgcag ctctgccctt tgtcagacaa gctggcctat attccatcag tttacccaac 300
aaatacaatt tctcttttga ctactatgca ttcctgattc taataatgat ctcctacatt 360
ccaatttttc cccagttata cttccacatg atacaccaga gaagaaagat cctttctcat 420
actgaagaac acaagaaatt tgaatagttc ctgctttctg cacctcccac caaaacaaac 480
ttttcaatga tcaaaaaatg ctgcagattt tttgagttcc caatacgttt catagaaaat 540
aagtaagaac tatttttaaa atattcaaac aaaactaaaa caaaaatcca gtgtcacatg 600
ggcctgagat tttatttttag aaaaaggttg ttacataaaa caccctggcc agttcatttc 660
agcatgctct ttcaaccaga agttcttaat atttatgatg gcactagaaa gggatttggc 720
attttatgtc cttctgtgtc cttcatgtat ctgatcaatg aagacctgta ccactaan 778

<210> 3387
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3387
catanagntc ttgccttttt gnaggacnct cgattcgaat tcggcacgag cccccatctt 60
cactggttat tccacttatt taaaatgtcc agaataagca aatctccata tagaggaagt 120
agattagtgg ttgcttcggg atgggaggaa tgggaagatt gaggtctttc ttttgcagtg 180
ataaaaatgt cctaaaattg actgtagcga tggtcacaca actctgaata tgcttaagac 240
cattgaatta cacactttac gttggtgaat tgtatggatg taaattatag ttcaataaca 300
tagttacaaa agataatcaa aagcatgaaa gcactgttga tgtggnttgg atctgtgtcc 360
tcaccgagtc tnatgttgaa atgtaagccc cctggtggga ggcgatggga ttatggggca 420
gantcctcac aaacgggtta gcccacccgc tcaggctgtt ctcctgatat tgagtcctca 480
tcacatctgg ttgcttcaaa gtgtgtggng ccttccctct atctcctact gctctggcca 540
tataagangt gcctgcttct ccttcgcctt ntacatgatt gtaaagtttc ctgagcctcc 600
tagaacnaaa gctgctgngc tttctgtcca tctacangan cgtgagccca attaaacctc 660

tttttttttt ttnngaggnn ntttnntnnc nntccnnnca ntttnanann cctngnanng 720
gtttnnaaaa anaananngn naannnnnnn nnccccengc ccttttaaaa taaaaa 776

<210> 3388
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3388
tatacataca gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
gccatcttgc tatgtttccc aggctggttt tgaactccca gcctcaagca atcctccctt 120
tccgcctcag cctcccaagt ggctggggtt atgggcctga gccactacac agctaagagt 180
gtcttgtatg tgctaatgag atggctggtg tctgagagcc cctagagagc ttcaagatgg 240
gggctagtct ttagaaagtc caagcaatgg ctaggtatgg tggccactgc ctgtaatccc 300
aggagtttgg gaggccaagg tggacagatc acctaggagt ttgagaccag cctggccaac 360
atggcgaaac actgtctcta ctaaaaagac aaaaattagc aagacaaaaa ttagctgggc 420
ttggtggtga gttcctgtag tcccagctac ttgggaggct gaggcaggag aatcacttga 480
acctgggagg cagaggtttc agtgagctga gatcatgcca ctgcacacca gccgcctggg 540
tgacagagca agactccatc taaaaaacaa aaaaagtcat gattagaggg ttggaacttt 600
cagcctttcg gcctctgctt cttgtcccca cctntgggca naagggaagg gctagagatt 660
gaattatncc aatggccaat gatttattta atcaatatga aaccttcata aaatccccta 720
agtgataaag ttcanagagc tttcaagttg gtaaagcttt tctangtgct tgggaagggn 780

<210> 3389
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 3389
gnncnnttnt atacatcagc tcttgtcttt gcggtccctc gttcgattcg gcacgagtaa 60
gaatccccac ccccatcaat tttcaggaat gggatggtct agtaaggata acctttgtta 120
ggaaaaacaa gacactctct gctgcattta aatcaagtgc agtgcaacaa ctcttggaaa 180
aaaactacag aattcactgt tcagtccata atattataat accagaagat ttcagcatag 240
cagataaaat acagcaaatc ctaaccagca caggttttag tgacaacggg cccgttccat 300
ggacatagat gacttcatca gattgctaca tggattcaac gcagaaggta ttcatttttc 360
ctaggtattt ggaaaacaga aattttcaag gtcaagaaaa gaaatgaatt ttgtattttt 420
tgtatttgag aagataatgc ttttgcttta ctgagacatt atttacttga ctatttttgg 480
ttcaatacta ctactggtgt caccatttat gattctgaat ttaaagttgg gaaaggtcta 540
agtatcaaag tttttaatat ataatgctgg tccaatctat tcataataat cttcaaggtc 600
agggagcccg cagagaccca ccaacttttn cacttatcat ttctaacagg ttattggata 660
aagaangtan ctcttctatt taccgggnat atacctggna aggccttntt tnnggncctt 720
tagctctggt tcctccnggt aattaaaaaa ggttaaaaat atggaaaaaa aaaaaaaaaa 780
aaaaaactcc gnggggcctnt agaacttttt ggggg 815

<210> 3390
<211> 857

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G

<400> 3390
tcaacngctt ggctancgtt ctctttgcag gatcccatcg attcgcgtct canacaannn 60
aagtatncta cccatccaca ggcagcagac aaggaagtac cttctgtgac tgnctggcaa 120
ggtcagaggc atnagggaag gtaaantact gnaactatat tnntaaaaat aaaagtattc 180
cctttatgag tgtgaattac gaatcaatgc cccttctcac tacttttttgt gaaaaaaatt 240
accactnctg cancaagtct atgcctgggt aaccaccaac ccnccaaanc cnagaagaag 300
ncccccttttt ccggcntntg gaaggctgga gnancattng natntnggcc aacnggnccn 360
taaantggng aantnaccca ctttcctttt acaancggtt ggcntcntna naccancaca 420
aattntntgg cacccgggtn ctctnnacag gnaaccctgn naancaaana aaccntggng 480
tctgcactcn nggngcccan ntnctncggc ttgntntaaa atgactntgn cntnccttttt 540
ttaaaattca caaatntttt anccnctaca tanacatatg aagtgagnaa cccncanann 600
gaanattnan aaaacntccc agccnncttt taactactan tngagnnctn tttaatnntc 660
tnatccccnn aannttgttg atggangccc attcgtttnn caccttttttg ganganaatc 720
ccncccacct tcctnaataa tctnntcnga ataaaaaaaa cnccccctcat attattcnnn 780
caanaaantn tttnnnanna cnnccanggn gggctccntt tttngccccn cnctttttnna 840
nncaccntcn ntanaaa 857

<210> 3391
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G

<400> 3391
tcaacngctt ggctancgtt ctctttgcag gatcccatcg attcgcgtct canacaannn 60
aagtatncta cccatccaca ggcagcagac aaggaagtac cttctgtgac tgnctggcaa 120
ggtcagaggc atnagggaag gtaaantact gnaactatat tnntaaaaat aaaagtattc 180
cctttatgag tgtgaattac gaatcaatgc cccttctcac tacttttttgt gaaaaaaatt 240
accactnctg cancaagtct atgcctgggt aaccaccaac ccnccaaanc cnagaagaag 300
ncccccttttt ccggcntntg gaaggctgga gnancattng natntnggcc aacnggnccn 360
taaantggng aantnaccca ctttcctttt acaancggtt ggcntcntna naccancaca 420
aattntntgg cacccgggtn ctctnnacag gnaaccctgn naancaaana aaccntggng 480
tctgcactcn nggngcccan ntnctncggc ttgntntaaa atgactntgn cntnccttttt 540
ttaaaattca caaatntttt anccnctaca tanacatatg aagtgagnaa cccncanann 600
gaanattnan aaaacntccc agccnncttt taactactan tngagnnctn tttaatnntc 660
tnatccccnn aannttgttg atggangccc attcgtttnn caccttttttg ganganaatc 720
ccncccacct tcctnaataa tctnntcnga ataaaaaaaa cnccccctcat attattcnnn 780
caanaaantn tttnnnanna cnnccanggn gggctccntt tttngccccn cnctttttnna 840
nncaccntcn ntanaaa 857

<210> 3392
<211> 956
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(956)
<223> n = A,T,C or G

<400> 3392
ccctcancgn ncnnaacann nctcnnannc tcnnatctta nctttcnnna tcnantantc 60
ncganannnn tncctcccnn atnntaccna nttancttac cncctcnnna acnnctannt 120
tnaantnntt ngnnncccng tnttantntt ttctaacnct ggggaatcgc ntctnngnag 180
ganccntcga ntcgaaaatg ccttcattnn ccttttttact ttatcatgag acataagatt 240
tattggcttc atatcaaccc ttaagtattg ttaactttat gtaatagcat ttgggttggg 300
gattggtgtg ttttcggttg tacatagcat agttgaatta tgttaggcat aattatgacc 360
ttattattgt ctttatttga aaattatata tgatctcagg aaatgtgtat gagttcaagt 420
tgacaaggag tggatnnggg atggttgata ctgagtgtca acttgattgg attgaagcat 480
gcagagtaat aatcctgggt tgtgtcctgn gagcnatgtn tcccaaanga gaataacatt 540
tgagtcangn gggctgggga aaggcanacc cacccttaaa ctgggtgaac accctntaat 600
caaactgtct gctntggcca gnatataaaa gcangccnga aaacntgaaa aggctagaca 660
ggcctttagc cctctcagcc ctacatcttt ctcccgtgct tggatgnttc ctgncctcaa 720
acnccanact tcaagtnctt cancttttgg gacttgaacc tggctctcct tgntcntnaa 780
ntttgnatca cnggcttatc tgngnggnac cttancngtt nagttcnaat acctccnnaa 840
ttaaacncnc ttttctntac ananactccc nctnaattcg nacccntnta naantnatag 900
tganccccnca aacctnnatc cnnnncttga tanngancca ttgnacnnnt tnnnnc 956

<210> 3393
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 3393
caatgctggn ctaatgctgg ctctngttct ttcgcaggat ccctcgattc gaattcggca 60
cgaggagcaa aataggatta tattaaagaa gcaaaagaat gtcctaaaaa ttctccctgg 120
gattaagtaa cacagtgatt gatattagtg gagtagaggg aaagatccat gttagagata 180
gcttaagata gggattagat gaattgaggg caatgactaa agatactgct tgcaagaaaa 240
ctggctgaga atgagaggaa aatcttagtt gcttggcggg agggggtttg tggttgtgaa 300
agatagtttt gtttaatctt agtcttaaat ttaaaaccaa gcagcaagga tctagctgag 360
agaataattg aatacattaa tataggagga cagacaaaga tcctgaaaag gctgggagaa 420
gagcatccaa agcacaggtg gagagacaaa aaggttaggg ctgctggcag ctgtggagag 480
aactgtacgt ggtaaggggg agatataaga tgtcctgcat aagtattttc cctgtagatt 540
gcaaagtcat ctatggagag gaaaggtcca aaatagtcac tggggagagc aggtgaatta 600
gatggccaag cagggtggat ggatcatttg aggtttgggg tgacagatca actgagatcc 660
acttacactt ctgaaaacca agacacttta gaaattaaca ccg 703

<210> 3394
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3394
atgntggnct aatgcttggc tactngttct tttngcagga tcccatcgat tcgcagcgga 60
tggccgaaaa tctaggcttc gttgggcctt tgaaaagcca ggctgcagat caaattacga 120
agctgtataa tctcttcctg aaaattgatg ctactcaggt ggaagtgaat ccctttggtg 180
aaactccaga aggacaagtt gtctgttttg atgccaagat aaactttgat gacaacgcag 240
aattccgaca aaaagacata tttgctatgg acgacaaatc agagaatgag cccattgaaa 300
atgaagctgc caaatatgat ctaaaataca taggactaga tgggaacatt gcctgctttg 360
tgaatggtgc tgggctcgcc atggctactt gtgatatcat tttccttaat ggtgggaagc 420
cagccaactt cttggatctt ggaggtggtg taaaggaagc tcaagtatat caagcattca 480
aattgctcac agctgatcct aaggttgaag ccatccttgt caatatattt ggtggtatcg 540
tcaactgtgc catcattgcc aatgggatca ccaaagcctg ccgggagcta gaactcaagg 600
tgcccctggt ggtccggctt gaaggaacca acgtccaaga ggcccagaag atactcaaca 660
acagcggact ccccattact tcagccattg acctggagga tgcacg 706

<210> 3395
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(699)
<223> n = A,T,C or G

<400> 3395
gnnnctaatg ctggctattg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gcccagctac gatctatatg ctgtcatcaa ccactatgga ggcatgattg gtggccacta 120
cactgcctgt gcacgcctgc ccaatgatcg tagcagtcag cgcagtgacg tgggctggcg 180
cttgtttgat gacagcacag tgacaacggt agacgagagc caggttgtga cgcgttatgc 240
ctatgtactc ttctaccgcc ggcggaactc tcctgtggag aggcccccca gggcaggtca 300
ctctgagcac cacccagacc taggccctgc agctgaggct gctgccagcc agggactagg 360
ccctggccag gcccccgagg tggcccccac gcggacagcc cctgaacgct tcgccccccc 420
tgtggatcgg ccagccccca cctacagcaa catggaggag gtggattagc aggtccctgg 480
ctgatggggg ggactgggtt tgggacaccc acacagaggg ccagctcctt gccgcttctc 540
cttctctaac ccagaggaca ctggctctgt cagtgggaag ctgaggggta tgatttgggt 600
gtggagacct ctcaggttgg gacttcttgt cagcttggac ccctgaccag tgggctttgg 660
cttctccagc cgccttcagt gctgcgtgat ttgattctg 699

<210> 3396
<211> 1104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1104)
<223> n = A,T,C or G

<400> 3396
tttcaacgct ggctactngt tcttttgca ggatcccatc gattcgaatt cggcacgagg 60
ttatgtctgg ctgtagctgt tggtcacgtg aagatgacag acgatgagct tgtgtataac 120
attcacctgg ctgtcaactt cttggtgtca ttgctcaaga aaaactggca gaatgtccgg 180
gccttatata tcaagagcac catgggcaag ccccagcgcc tatattaagg cacatttgaa 240
taaattctat taccagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanann naanaataan cntantncnn 360
nnanttnatn ncnancttct ccatntacna nnannttant nactacannt cncatcnnnc 420

ttatcttcta ataccnaccc ncnnatntna ccatctaccc tntnctcaac cntccncntn 480
natnctcttn ntcncccncn ncaccctcnc ncntcnantc ctntatannt ttctcccctc 540
ncctcgnncn ctnngtncnt tntctactgt tnctcntnta nnctctcttc tctnnctctc 600
ntnnctntct nnancnttnt tnnccnctcn gctcnncnct ctnnctttctc tatcttcccn 660
tnctcncacn ctctcatgca attnnacnnt cnctnctnca ncnattngac tcncntctnn 720
atctntctgc atcactnanc nncnnntnnc ttctctctac cnncantctc ttntnnnnnt 780
nnnncnncnn cttatnacnn nncnnnntnt ntnnnnactc nntntntann nnntnncann 840
nntnnncntc tnnncnntnn ntnctnntnn nnncttnnnt nntaccnaan nnnnnnnncn 900
nncncnntna nntnnnatna ntnncatncn ctcacntatn nnctctcnnn nanannncnc 960
nctccctnnn nnatnnctcn cttnacatac tctctatctn nnncnaccnc tacnancanc 1020
tnnttntnct nnnnnntana cncttnnnna tntnngctct cnnncnncac nctnttctnn 1080
nantnatctc ttccccngnc naac 1104

<210> 3397
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 3397
tttnnnnntn tnaatccctt ngctaccncc ntttgatnga catacancta cttgttcttt 60
ttgcagggat cccatcgatt cgaattcggc acgaggaatc accctcggct gggaagtcag 120
ttcgnnctct cctctcctct cttnttgntn gaacatggtg cggactaaag cagacagtgt 180
tccaggcact tacagaaaag tggtggctgc tcnagccccc agaaaggtgc ttggttcttc 240
cacctctgcc actaattcna catcagtttc atcgaggaaa gctgaaaata aatatgcnng 300
aggaaccccg tttgcgtgcg cccaactccc aagtggcaaa aaggaattgg agaattcttt 360
aggttgtccc ctaaagattc tgaaaaagag aatcatattc ctgaanaggc acgangcagn 420
ggcttaagaa aancaaagag aaaagcatgt cctttgcaac ctgatcacac aaatgatgaa 480
aaagaataca actttctcat tcatntntgn ataacgnctc cttgtttacc ctggtattct 540
agaatgtaaa tttacataaa tgtgtttgtt ccaattagct ttgttgaaca agcatttaat 600
tnaaaaantt acgtttaaat ttagatgttc aaaaggagnt gngaaatttg agaatnngta 660
agactaatta tggnaactta gcttagtatt caatataatg cattggtggg gtttctttta 720
cccaaattaa ggggtctagt tctttgttaa aatcaagnca tttgcatttg tggttctaaa 780
tacaagtatt gttgcntttg agaattgctt a 811

<210> 3398
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3398
nntnnnnntn tgaaancctt nggctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag attctctcaa taatggccag ccgaaaagta cgcgctgcca ggcatctgcc 120
tccgcggagt cattaaactc ccacagtggt caccccactg ctgatgtaca gactttccag 180
gcaaagcgcc atattcatca acaccgtcag tcttactgta attataacac tggaggtcag 240
ttagagggca atgcagccac ttcctatcag aagcagactg acaaacccag ccactgtagc 300
cagtttgtga cacctccgcg gatgaggaga cagttctcag cacccaatct caaagctggt 360

cgagaaaccc agtataaatc agttctggac aaacttgaaa tcatggtgga agaaacagac 420
agtgttagct catgatttga tttggttcta cctttggcct tgagttctta ttatttacat 480
tataaatatt aactggtttt atattgntaa gacaaaacac tggtaaaagt ttcaacacct 540
ccctttgct tgtataccat aaatgggcag nttctgaaat tttggataaa gcatcaagaa 600
ctccttttc tgaaacgttc ctnctttttt agtgcctaat taatatactt acttacccng 660
gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaaaactcgg cctttaaaat 720
atagggggnn gnnttacnna aatccaann 749

<210> 3399
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 3399
canctcttgt ctttttgcgg accctcgttc gaattcggcc gagtaagaat ccccccccca 60
tcaattttca ggaatgggat ggtctagtaa ggataacctt tgttaggaaa aacaagacac 120
tctctgctgc atttaaatca agtgcagtgc aacaactctt ggaaaaaaac tacagaattc 180
actgttcagt ccataatatt ataataccag aagatttcag catagcagat aaaatacagc 240
aaatcctaac cagcacaggt tttagtgaca acgggcccgt tccatggaca tagatgactt 300
catcagattg ctacatggat tcaacgcaga aggtattcat ttttcctagg tatttggaaa 360
acagaaattt tcaaggtcaa gaaaagaaat gaattttgta ttttttgtat ttgagaagat 420
aatgcttttg ctttactgag acattattta cttgactatt tttggtcaat actactactg 480
ntgncaccat ttatgattct gaatttaaag gtggaaaggt ctaagtatca aaggttttaa 540
tatataatgc tggnccaatc tattcataat aatcttcaag gtcaggagcc cgcagagacn 600
cncaactttc cacttatcat ttctaacagt ttattgnata aaggatggta cctctttcta 660
ttttaccngg naatatacct ggaaagggcc ttcttttang gnccttttaa cctctgggtt 720
ccctcccggt naattaaaaa aaggtttaaa attnttgaaa aaaaaaaaaa aaaaaaaaaa 780
cctcgggggg ccttttaaaa acttttttggg 810

<210> 3400
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3400
gnnttnannc cnttttnatn cncntncagc tcttgttctt tntgcaggat ccctcgattc 60
ganttcggca cgaggtgagg ctctcttaan aaatttaaaa atactgnnga acaaagggag 120
gagtttgtct taatctggag tggaggaaac ttctgngtca ccnaacacag aaaccatcaa 180
agaaaatctt tcactttcna aattagtcta tacaaaaaaa aangaaaatc ttaccccaaa 240
tnanagactg aggcatgagc ttcaatcaat cgangtttac tggccnnagt tngagcntgc 300
ccagnaaagc aacacaagtc aaagaaacgt ctgtggcctg tgctctccca aaaagttttc 360
aggaggctca anatttgtac atttctttaa anggganaag acagtgaggc anatggttat 420
gtttttgtga gactcttant tagtgtcccn tgaatctaaa ctntntggaa natagggtga 480
acactgnaag ancagggagt gacataanaa ccaattatgc nacacgtctc atgttacgtg 540
gaggaatgan gntctcatct tatccttgtt ctgcccctgn gcagataaac ttgttattga 600
cattgtcagt ntgaaattta acagactttt gttttangag ttaagtttan ggtgcacacc 660

taanatgcac ttggcatgtn ctttgtttnt tggaggatat ncatnctgaa ggtttagggg 720
ctgccaaana atttactgct gaccanttgg gattgcagtc cctggagatt catgaggctt 780

<210> 3401
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3401
gnnttnannc cnttttnatn cncntncagc tcttgttctt tntgcaggat ccctcgattc 60
ganttcggca cgaggtgagg ctctcttaan aaatttaaaa atactgnnga acaaagggag 120
gagtttgtct taatctggag tggaggaaac ttctgngtca ccnaacacag aaaccatcaa 180
agaaaatctt tcactttcna aattagtcta tacaaaaaaa aangaaaatc ttaccccaaa 240
tnanagactg aggcatgagc ttcaatcaat cgangtttac tggccnnagt tngagcntgc 300
ccagnaaagc aacacaagtc aaagaaacgt ctgtggcctg tgctctccca aaaagttttc 360
aggaggctca anatttgtac atttctttaa anggganaag acagtgaggc anatggttat 420
gtttttgtga gactcttant tagtgtcccn tgaatctaaa ctntntggaa natagggtga 480
acactgnaag ancagggagt gacataanaa ccaattatgc nacacgtctc atgttacgtg 540
gaggaatgan gntctcatct tatccttgtt ctgcccctgn gcagataaac ttgttattga 600
cattgtcagt ntgaaattta acagactttt gttttangag ttaagtttan ggtgcacacc 660
taanatgcac ttggcatgtn ctttgtttnt tggaggatat ncatnctgaa ggtttagggg 720
ctgccaaana atttactgct gaccanttgg gattgcagtc cctggagatt catgaggctt 780

<210> 3402
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3402
gntttnnnnc nnttttaatn tacatacanc tacttgttct ttttgcaggg atcccatcga 60
ttcgaattcg gcacgaggga acccccacca ttaagctaaa gtaaaaccct tttgagggaa 120
gagggagact ggggagaagg gaaaagagag aaggcaggga gagtagggag agaaaacctt 180
ccagcagccc agtaaactgc gggcgaagag atctacccgt ctccctccct cccacagtta 240
ccattggcct tgtcatcgca agcatttgac aaagacttgc ttgtttgggc ctgtcacctc 300
ctgaaaggct gctttagctg tggatgccct tgattaaggg agagagcgcc taggagctgc 360
ctgccccanc tggggtgacg gctgtagggc tgggtctatg ttgcaagccc tatatcctan 420
catgcagtgg aaagtgctta gctctctccc tcctgacctc tgggcagcca gtcatcaaag 480
cagagagacg tggcggcatg tgggcagcat gcccaggttc cttgctgact cagcacttat 540
ttctgtagtt ttaaaaaaga atttaatgtt tttggttgta ttttttgggg ggggtgaggg 600
tgggcaaaaa catgggggta gttctgagtt gttagaaatg tttctgaatc aagtttgttt 660
gaaaacacgt tgtgcctttg tacccattat aagatggtca taanacccaa gaactgataa 720
gctttgggtt ttttttggtt tggtttggtt ttttgcttca ttttacccat tcatgcctag 780
ggtttccat 789

<210> 3403
<211> 778

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3403
gntttaannc nnttttaata tncatncanc tacttgttct ttttgcagga cccatcgatt 60
cgaattcggc acgagggaac ccccaccatt aagctaaagt aaaacccttt tgagggaaga 120
gggagactgg ggagaaggga aaagagagaa ggcagggaga gtagggagag aaaaccttcc 180
agcagcccag taaactgcgg gcgaagagat ctacccgtct ccctccctcc cacagttacc 240
attggccttg tcatcgcaag catttgacaa agacttgctt gcttgggcct gtcacctcct 300
gaaaggctgc tttagctgtg gatgcccttg attaagggag agagcgccta ggagctgcct 360
gccccagctg gggtgacggc tgtagggctg ggtctatgtt gcaagcccta tatcctagca 420
tgcagtggaa agtgcttagc tctctccctc ctgacctctg ggcagccagt catcaaagca 480
gagagacgtg gcggcatgtg ggcagcatgc ccaggttcct tgctgactca gcacttattt 540
ctgtagtttt aaaaaagaat ttaatgtttt tggttgtatt tttttggggg ggtgagggtg 600
ggcaaaaaca tgggggtagt tctgagtttg ttagaaatgt ttctgaatca agtttgtttg 660
aaacacgtgt gcctttgtac ccattataag atggtcataa gacccaagac tgataagctt 720
tggtttttt tgtttggttt ggttttgctt catttaccca ttcatgccta gggttccn 778

<210> 3404
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3404
caacgctggc tacttgttct ttttgcagga tcccatcgat tcgaattcgg cacgaggctg 60
agcgagtgtc tcaagcgcat cggggacgaa ctggacagta acatggagct gcagaggatg 120
attgccgccg tggacacaga ctccccccga gaggtctttt tccgagtggc agctgacatg 180
ttttctgacg gcaacttcaa ctggggccgg gttgtcgccc ttttctactt tgccagcaaa 240
ctggtgctca aggccctgtg caccaaggtg ccggaactga tcagaaccat catgggctgg 300
acattggact tcctccggga gcggctgttg ggctggatcc aagaccaggg tggttgggac 360
ggcctcctct cctactttgg gacgcccacg tggcagaccg tgaccatctt tgtggcggga 420
gtgctcaccg cctcactcac catctggaag aagatgggct gaggccccca gctgccttgg 480
actgtgtttt tcctccataa attatggcat ttttctggga ggggtgggga ttgggggaca 540
tgggcatttt tcttactttt gtaattattg gggggtgtgg ggaagagtgg tcttgagggg 600
gtaataaacc ttcttcggga cacaaaanaa aaaaaaaaaa aactcgagcc tntagaacta 660
tagtgagtcc gtattacgta gatccagaca ttgataaaga tacattgatg agtttggaca 720
aaccacaact tgaatgcant ngaaaaaaat gctttaattt gggaaatttg gngaagcnn 779

<210> 3405
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)

<223> n = A,T,C or G

<400> 3405
nnnnnnnntt taaatnccat tnntttctnn nnnttttnat ntanatacan ctacttgttc 60
tttttgcagg atcccatcga ttcgaattcg gcagaagatt aaaccggttt ctgtgggcac 120
ctctgtcctt gctgctggtg gggaagggaa gccagatcca gcacccccctg gggggccatc 180
gggagtgtgg ctgggggtga agggggctct gtggcaatat ggggttgggt agtgtgggtg 240
gcaggccatc ccctctaatc ttggaacctc tgaatatggg acctcccaca gcaaagggtg 300
actttgtcat taanaaagac tggggtgggt gtggtggctc acgcctgtaa ccccagcact 360
ttgggaggcc aaggtgggca gatcacgagg tcaagagatc ganaccatcc tgncgaacat 420
ggtgaaaccc catctctact aaaaatacaa aaaattagcc gggtgtggtg gtgggcacct 480
gtcgtnccac tctaaggagg ctgangcacg anaatggtgt gaacccatga ggcacanctt 540
gcantgagcg aanatcgcac cactgnacgc actncaacct gggtgacaga gcgagactcc 600
gtctcaaaaa aaaaaaaatt tcaagactgg agaggtnatc ctgaattgtc cagctacncc 660
ccatgtnatc acagggcctt catgacaggg ncagagccac cancttgaa gannengtcc 720
tnccccccnaa cangcagnct gganaaactt ggncangaca agtaggacat tcctggagcc 780
tccanaangg actgggcttt tnc 803

<210> 3406
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3406
caangctggc tatcgttctc tttgcaggat cccatcgatt cgaattcggc acgagcctga 60
ggtcacatgt ggatttggcc agagccttca ggaggtggag gccggtgagg tcaggagccc 120
agctctccag ggggcttctg ccctgactgg gaagggtgcc tggctcccta aaacaatgtc 180
aaagccagtc ctgctgttct ctgttgccag ggggcaggtc tgggcctggg ccaaccacgt 240
ttgttatcat ggctgctgcc ttctggacag ctgccagctc tgccttgaga ggttgtggga 300
cctctggatc cagctgacct gacaggtcat ctactcaggg aggagccctg tgctcccagc 360
tcagaggaca gtctgggcca gaactggaag gagacatctg tcccgtcttt gagtgacaag 420
cccgggacaa cagccagtgg gcatcacggc tctccagcac tccttagccg gaggatacag 480
agtgatgggt gcatcctgac caatgcgaca accaacacgt gctctcacaa acccctgact 540
cccgcacttt ccagtgccaa agtcaaacgc tgcttggata aggagagcaa agcttctgga 600
actttattta ctctntcttt ttaattntct tttaagagac tgggtcttgc tatgttgccc 660
aggctggtct tgaactcctg gcctcaagtg atcctccagt ttccatctcc ctaagactgg 720
gattacaggt gtgagcccgc tgtacccgaa ctttttttgg tttttgcttc ncg 773

<210> 3407
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 3407
gnnnnnnnnt ttatttacat tcagntatng nnnttttgnt ntaaatacan ctcttgttct 60
ttttgcaggg acccatcgat tcgaattcgg cacgagggct ctccctgagt gtcgaggagg 120

acatgagtga aatgaccagc gaactcattt tttataggac tcggtgaagc cggattctgc 180
atttccctac ttgtagactc attttgtgga atagagttga tcgctgtctc ctccgcaaag 240
cattttaact cgaataagca aatgccgcct ctgtttgaac gttttggtat ttacaagaga 300
gaatcatttt acctaagaga actaattgaa ttggcagcat ccttgaaata cctccggaca 360
aggatctggg ggtgggggtg gaaaagcaac tgcgaaatag cagacggaga aattcctttg 420
gaagttattc cgtagcataa gagctgaaac ttcagagcaa gttttcattg ggcaaaatgg 480
gggaacaacc tatcttcagc actcgagctc atgtcttcca aattgaccca aacacaaaga 540
agaactgggt acccaccagc aagcatgcag ttactgtgtc ttatttctat gacagcacaa 600
gaaatgtgta taggataatc agtttagatg gctcaaaggc aataataaat agtaccatca 660
ccccaaacat gacatttact aaaacatctc anaagttttg gccagtgggc tgatagcccg 720
ggcnaacacc cgtttatgga ttgggattct tctctgagca tcatctttcg aaanttgcag 780
aaaagtttca gggaatttaa agaagctg 808

<210> 3408
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 3408
tnnnnnttta tttcnttcgt tctngntttt attacatcag ctcttttctt tttgcggtcc 60
ctcgttcgca attcagagac acacataaga aactggaaga agagaaaggc aaaaaggaaa 120
aagaaagaca ggaaattgag aaagaacgga gagaaagaga gagggagcgt gaaagggaac 180
gagaaaggcg agaacgggaa cgagaaaggg aaagagaacg tgaacgagaa aaggagaaag 240
aacgggagcg ggaacgagaa cgggataggg accgtgaccg gacaaaagaa gagaccgaga 300
tcgggatcga gagagagatc gtgaccggga tagagaaagg agctcagatc gtaataagga 360
tcgcagtcga tcaagagaaa aaagcagaga tcgtgaaagg gaacgagagc gggaaagaga 420
gagagagaga gaaccgagag cgagaacgag aacgggagcc gagagagaga gcgagagagg 480
gaaccgggag cgagaaagag aaaaagacaa aaaacgggac ccgagaagaa gatgaagaag 540
atgcatacga accgaaaaaa aaaaaaaaaa aactcgagcc tnttaactat agtgagtcgt 600
attacgtaga tccagacatg ataagataca ttgntgagtt tggacaaccc ccacttgaat 660
gcagtgaaaa aaatgctttn tttgtgaaat tttgngatgc tnttgctttt tttgtaacca 720
tttttagctt gcaataaaca agtttnccac caaccanttg cnttcatttt nttntttcan 780
gttcaagggg aagtttttgg aag 803

<210> 3409
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 3409
tttatataca tcagttcttg ccnttttgnt ngactanagc tcttgncttt atgcaggacc 60
ctcgattcga nttctgnncg agtctctctn tctctctctg tgtctctcgg aactggttcc 120
ctgggctgac cggagccggg agaacaacct ggcctcaggg agagagacgc taccgggctt 180
acgccacccc ctctnctcaa cacaagccca aactgctacc cgcgaggtgc aagtaagcgg 240
cacctcagaa gtgtctgcgg gccctgaccg ggcgcaggtg gtggtgcagt gagcagcacc 300
aaggaggcgg cagccgagcc aaaaagagcg tttgtcgccg tctagattac atcacgcaga 360

gcctccagca ncagggcgtg cangcagaaa atataactgt gacaaaggat tttaggagag 420
tggaaaatgc ttatcacatg gaagcagagg tctgcattac atttacttga atttggaaaa 480
atgcaaaata tttgtaactt tntttgttga aaagctaaga tagctnttgt tgtcatcagc 540
ccaccccagt tcttatcata ctccagggtt ctggttgana atcttcgacg gcaagcctgt 600
cttgttgctg ttgagaatgc gttggcgcaa actcaaagaa gtcttgtnaa ccttgttggg 660
ccaaaccttа ngaaaaacctt ttacttaatt cnaaggaaga agnaaacaca aggaattggg 720
gaagggccaa atagatgatt naccnagttc nttccagact tcttcaagtt caattaactt 780
gtncnaccaa aaaaatcaaa agtggcaacn aatncattgc ttn 823

<210> 3410
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 3410
catncngttt cnagccnttt tganatacat tcagctactt gttctttttg caggatccca 60
tcgattcgat ttgactaaat cattgtttca caactgaata gtcttgttct tttagtagca 120
atgaaatcct aagctcttga ggccattcac ctgccaacct gaccatactg ctttcaaaag 180
tcttttctca tcagtagaat ctattttggt cacttctagt caatgaaaaa tgtaaacttt 240
taggagagaa tgtttcctag gactcaccca ctccattcaa tgttacatta aaatagtgtg 300
atcaatcaca atgtccatct ttagacagtt ggttaaataa attatctggt ctttgaaaag 360
accgtgctgg gcgcggtggc tcttgcctgt aatcccagca ctttgggagg ctgaggcggg 420
cagatcacct gagatcggga gtttgagacc aagcctgacc aatatggaga aaccctgtct 480
ctactaagaa tacaaaatta gctgggcatg gtggtgcatg cctgtaatcc cactacttgg 540
gaggccgagg caggagaatt gcttgaaccc gggaggcana ggttgcagtg aggtgagata 600
gcgccattgc actccaacct gggcaacaag agcaaaactc tgtctcaaaa aaaaaaaaaa 660
aaaaaaaaac tcgagcctnt aaaactatag tgaggcgtat taccgtagaa tccagacatg 720
ataagataca ttgatgaagt ttggacaaac ccccacctng gaatgcngng naaaaaatgc 780
tttatttgtg naaat 795

<210> 3411
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3411
gnnnnnnntt taaantccat acagtttcaa gnccnttttg aaatncattc agctacttgn 60
tctttttgca ggatcccatc gattcgaatt cggcacgaga gtccacatta aaaagaaaac 120
aaaacaaacc ctaactaact tccaaatggg tctcctggtg cgggggcgtg agtggccgtg 180
ccctgggtgt gctgcctgtc tgagcaagct tccctagctg tggaaccccg ggccccctgc 240
tgcgggctct gccttggtgt catgcctgct gcacccccgt ttccactgac gtgccgtctg 300
tggctatggg gtggtcactg gaatgacggt cactccagac gtcagccggc agggatgcan 360
caggctggcc gcgcaccggg gctcgggcac cctctggccc cacactggca atgatgccac 420
accttgccat gtccacgctg ttggtcaaac ccctctgtca tgcctcttta aagagaaaag 480
aagagaaaga ttttttttтt taatggcana ccgaaatgga gatcttgtag cctanatagg 540
atagtctgac cttctancat agtcttttтg gcaaatgatt tgtgttttca gtgtgtgggg 600

aanctgtcct gggggctggg gcgacagata gcacataagc tgtttntggg gctgcanggg 660
ctncctgact ggatgttgtg ggtgttgccn gcttnagaat gtggcnacaa aaagcgtana 720
ccggggccag gtntgccgcc tgagctggct cccnaagntg ggttgntcan cgttattt 778

<210> 3412
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(869)
<223> n = A,T,C or G

<400> 3412
atttcaaaaa ctcttgcctt nttaaanacc tnncgntact cgatcntnca cgaggaanga 60
ggacctaggc acacacatat ggtggccaca cccaggaggg tagtggngag ttagatttna 120
gagtccaggc cctaggttgg gacccactcc aaataatctc ctcggtgtgg gtggtggttn 180
tatanangga taaatgaata ataaacattn ntaaaatata cgctattcct tgntggaaat 240
gcctgctgca cccccgtttc cantgacntn ccgaangngg ntatnnggtg gtcantggaa 300
tnacagtcaa tccanangtn anccngcngg gntgcatcaa gctgncctcg cacctgggnt 360
nnncaccctc tggcccacac tggtnatgat gccacacctt nccatgttca cnctgtttgg 420
aaaaannnct tttnttttcc tcttttaaag agaaaacatt ganaaagatt tttttttta 480
atgggccgac ccnaaaaggg agatctnccc nccttgtgat atnatantnn tgaccctncc 540
tacnaagang gcgtttttgg caaaatnatt nttttnttt tcncgnggtg gtgggggaaa 600
aatttttcct gggggggggcc ttngnngccn aactnttaat tttccccatt aaggcaannt 660
ttctttgggg gnctttcccc nggggcttaa ncnttaaact ttggaatttt tntnggggtt 720
ggttngnccn taaattttta nnaaaatggt ngtcnaaccc aaaaaaaaat ntnacccccg 780
ggggccnaan antttttncc ccccttgga ngccttttan tttcccccac aaacttttt 840
tttttccctt ccaaccnctt ttattcttt 869

<210> 3413
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 3413
nttttattta catanagntc ttgccttttt nnanganata canctacttg ttctttntgc 60
aggancccat cgattcgaat tcggcacgag gccacnanca ggtgggggcc aggacgccnn 120
ggnnctgacc gcctccacta gagggnggtg gccgcgggcc gacctggacc ttnanncent 180
gtccngacct nccggtgggt gggtgcgccn gggagccngc nacattcctt nttcttganc 240
agccaaanat tggagtncna ttcnncnang nacnttttnt tttttnngat cangagtgtg 300
tncaacgtac nccccctgcct nngnaagccc tgantccntn atggagcctc nnagagtggg 360
gagcatattg gggtggggta atgcactnca nccaagnnga atgnacacaa ngggntcgtc 420
naangnnntg nggncncccct naccccttac caccatgtgn ngntngnctc tgtggttgaa 480
catcnnactn gtncgcaaan gganactnac tntaaaaccc tttgnacnan ggtgcnaaac 540
cacagntgtg ncctgncnca nctanccatc naaagaatna caaaaccncn tnaggggcng 600
ngggcnancn ntcnccctttg tcncgncctg tnttggantg gcctttcggc ttaaacagtg 660
aggctcanaa nggncncaac ctggggtgnt aataaaaaga acnaattaag anactnttcc 720
ctccnacccc cctttccttg tngccagggg gcancaaact ngattnttga agcccaanat 780
aaaaaaaagg cttnatatcn nggaaaa 807

<210> 3414
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 3414
tntcnttcaa atngcttggc tctcgttctt tctgcaggat ccctcgattc ggaaatatag 60
agagatgtgg gatttgaatg cccatgaaag acattttatt ttacttgaat atattcttgc 120
ttcactttac cctccataat atgttgtaca ttagtgctga tcaagtttac agagttacat 180
tttgctttcc taaccattca gtcaggaatt aaaatatggc attgtataac aactgggaag 240
aagctcatag tggatataaa ttagagtaga taatgggtca ccttgatagc ctctgtttac 300
attacttgta tatgggcaaa ataattatta cctatacgtg tatttaagct taattttcat 360
ataaacagta tttttaatct atgttaaaat agataatatc taaaagtgtg atctctaggt 420
agtccttagt ttattagtac tgtacttcaa aaagattttt aaataggtcc ggcacggngg 480
ctcatgcctg taatcccagc actttgggag gctgaggcgg gctgaatcac ctgaggtcag 540
gagttcgaga tcagcctgnc caacatggtg aaaccctgtc tcaactaana atataaaaat 600
tagcccgggc cgtggtggca ggcgcctgta atcccagcta ctcgggaggc tgangcagga 660
gaatcacttg aacccaaggg gcagaanctg canttaagcc aagatcgcat cattgn 716

<210> 3415
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3415
tttttaaana aancaggntt cctaatnctt gttntnnnga nacaggctac ttgttctttt 60
tgcaggatcc catcgattcg aattcggcac gagattctct caataatggc cagccgaaaa 120
gtacgcgctg ccaggcatct gcctccgcgg agtcattaaa ctcccacagt ggtcacccca 180
ctgctgatgt acagactttc caggcaaagc gccatattca tcaacaccgt cagtcttact 240
gtaattataa cactggaggt cagttagagg gcaatgcagc cacttcctat cagaagcaga 300
ctgacaaacc cagccactgt agccagtttg tgacacctcc gcggatgagg agacagttct 360
cagcacccaa tctcaaagct ggtcgagaaa ccacagtnta aatcagttac tggacaaact 420
tgaaatcatg gtggaagaaa cagacagtgt tagctcatga tttgatttgg ttctaccttt 480
ggccttgagt tcttattatt tacattataa atattaactg gttttatatt gttaagacaa 540
aacactggta aaagtttcaa cacctccctt ttgcttgtat accataaatg ggcagtttct 600
gaaattttgg ataaagcatc aagaactcct ttttctgaaa cgttcctcct tttttagtgc 660
ctaattaata tacttactta cacggaannn annnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnaaaac tcgnnccttt aaaactatag ggngtcgttt acctaaatcc aann 774

<210> 3416
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(717)
<223> n = A,T,C or G

<400> 3416
tntcattcaa gtnctaangc tggtcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gactgctcct tcattcccaa gaagaaaaga caagtactgc tacttccaaa actcagacac 120
gacttgaagg tgaagtgact cctaattcct tgtcaaccag ctacaagaca gtgtcattgc 180
cattaagctc tccaaacata aagctgaatc tcactagccc taaaaggggt cagaaaagag 240
aagaanggtg gaaagaagtt gtacgaaggt caaagaaatt gtctgttcca gcctcagtgg 300
tgtcgaggat aatgggaaga ggaggatgca acatcactgc aatacaggat gttactggtg 360
cccatattga tgtggataaa canaaagata agaatggcga gagaatgatc acaataaggg 420
gtggcacaga atcaacanga tatgcagctc aactaatcaa tgcactcatt caagatcctg 480
ctaaggaact ggaagacttg attcctaaaa atcatatcan aacacctgcc ancnccaaat 540
caattcatgc taacttctca tctggagtag gtaccacagc agcttccagt aaaaatgcat 600
ttcctttggg tgctccaact cttgtnactt cacangcaac aaccgttatc tacgttccca 660
ncccgctaat aaacttaata agaatgttct tagaaaaaaa atntnaaaan ctcgact 717

<210> 3417
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 3417
tgtnctttttc anttgntagc ncttggctac ttgntctttt tgcaggatcc catcgattcg 60
aattcggcac gagcctgttt ccaggagata tgtgtgncca tcagcagtga taaaantctt 120
gggcaggagt tattgcactg tttgtatgat cnanacccac ctnctctgct ggaaacaagc 180
agcgtgantt gntcacttgc ctttcnnagn cnctattggc cagntgcttg nangngaacg 240
gatccacaga acctcacagc tatttatgat ancatctgct nnattatntc aagttcancn 300
tgtntnnacn tgctgntnna ggtaanngnn gttntnntca agntntttgc aangngatga 360
caaactaatg tttgaatnng tcatgataan ggggcntctn atactctgga ncatcnccaa 420
nctgantnng aagagctgcc ngnntatctg ntagtgncct gctncttgaa attnccaaac 480
anntgccntg ntggaaattc atnatggctg gatgtttang ngnacatttt ncaantnctt 540
antnnncang atgatggaat tcnnncnatc naacatnctn tncgctngnt anacttnnna 600
ttnactnann gnctntnntg cnatnattng ncnctctgtg atcatccatc atnatctang 660
cntcaagtnn ctaacctngn ttngaagttg tngcaccann ttnt 704

<210> 3418
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 3418
tntncttnaa atcatngctc ttgttctttt gcaggatccc tcgattcgaa ttcggcacga 60
gagagggtgg ggtctggcca cataggtacc tctgtggctc tggtctgggg ttagacactg 120
ttagggacta gcatttattg gacttgtaaa gacagcacct cagaattagt aactacttgc 180
attttagggt ctgttttatg aagccaacaa gtgaatgtaa aataggctct gcatcttttc 240

tgagagccct gtcactgggc agtgagcatt tccaaaattg cagctctgtc anaatgaacc 300
atgaatactt aagaaaggga aagtaggaac agggagcaga gcaaagcata acttgctgtg 360
ttccagggat ttaaaaataa attactgtca agagcaatat aagggtcatg ggtttgatca 420
ggaacttttt gtaaatgaaa aagttcacaa tttggaaaaa acagtgctag atgtgttatg 480
gaaattgtta tcacaaatta ttccactgaa actcaagtat ataagacaac aatatattgc 540
tgtgaaatct taattttgac atatggaagg gtaccaaaaa taagaaccat ccttttgct 600
tgaantgcac ggtggtacca atttctaaaa tangaaacat tangcaaaaa aaanattnnc 660
ttttnngctt naaantanaa aaanctngnn ccttttaaac tttngngg 708

<210> 3419
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 3419
tntnctttnaa atcatngctc ttgttctttt gcaggatccc tcgattcgaa ttcggcacga 60
gagagggtgg ggtctggcca cataggtacc tctgtggctc tggtctgggg ttagacactg 120
ttagggacta gcatttattg gacttgtaaa gacagcacct cagaattagt aactacttgc 180
attttagggt ctgttttatg aagccaacaa gtgaatgtaa aataggctct gcatcttttc 240
tgagagccct gtcactgggc agtgagcatt tccaaaattg cagctctgtc anaatgaacc 300
atgaatactt aagaaaggga aagtaggaac agggagcaga gcaaagcata acttgctgtg 360
ttccagggat ttaaaaataa attactgtca agagcaatat aagggtcatg ggtttgatca 420
ggaacttttt gtaaatgaaa aagttcacaa tttggaaaaa acagtgctag atgtgttatg 480
gaaattgtta tcacaaatta ttccactgaa actcaagtat ataagacaac aatatattgc 540
tgtgaaatct taattttgac atatggaagg gtaccaaaaa taagaaccat ccttttgct 600
tgaantgcac ggtggtacca atttctaaaa tangaaacat tangcaaaaa aaanattnnc 660
ttttnngctt naaantanaa aaanctngnn ccttttaaac tttngngg 708

<210> 3420
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 3420
tntcattcaa gtnctaangc tggtcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gactgctcct tcattcccaa gaagaaaaga caagtactgc tacttccaaa actcagacac 120
gacttgaagg tgaagtgact cctaattcct tgtcaaccag ctacaagaca gtgtcattgc 180
cattaagctc tccaaacata aagctgaatc tcactagccc taaaaggggt cagaaaagag 240
aagaanggtg gaaagaagtt gtacgaaggt caaagaaatt gtctgttcca gcctcagtgg 300
tgtcgaggat aatgggaaga ggaggatgca acatcactgc aatacaggat gttactggtg 360
cccatattga tgtggataaa canaaagata agaatggcga gagaatgatc acaataaggg 420
gtggcacaga atcaacanga tatgcagctc aactaatcaa tgcactcatt caagatcctg 480
ctaaggaact ggaagacttg attcctaaaa atcatatcan aacacctgcc ancnccaaat 540
caattcatgc taacttctca tctggagtag gtaccacagc agcttccagt aaaaatgcat 600
ttcctttggg tgctccaact cttgtnactt cacangcaac aaccgttatc tacgttccca 660
ncccgctaat aaacttaata agaatgttct tagaaaaaaa atntnaaaan ctcgact 717

<210> 3421
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3421
tcttccattt naagcccttt gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagag agggtggggt ctggccacat aggtacctnt gtggctctgg tctggggtta 120
gacactgtta gggactagca tttattggac ttgtaaagac agcacctcag aattagtaac 180
tacttgcatt ttanggtctg ttttatgaan ccaacaagtg aatgtaaaat aggctctgca 240
tcttttctga gagccctgtc actgggcagt gagcatttcc aaaattgcng ctctgtcaca 300
atgaaccatg aatacttaag aaagggaaag taggaacang gagcatagcn aagcataact 360
tgctgtgttc canggattta aaaataaatt actgtcnaga gcaatataag ggtcatgggt 420
ttgatcagga acttttttgta aatgaaaaag ttcacaactt ggaaaaaaca gtgctagatg 480
tgttatggaa attgttatca caaattattc cactgaaact caagtatnta anacaacaat 540
atatcgctgt gaaatnttaa ttttgacata tggaaangtn accnaaaaat tttgaaccca 600
taccttnttg gcttnaaatt gcanggtggg tacccnattt nttaaaaatn annanacctt 660
tnnnnccaaa aatnacttna tnctacaaaa aattttccnc ggnccatggt taanaacctt 720
gnncncccttt ttnaaacttt tac 743

<210> 3422
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3422
tcntcgtttn natncttgga aatttgnana tngctaggct actngntctt tttgcaggna 60
tcccatcgat tcgaattcgg cacgagcctt ccacggttat ttcacagata tggagagctg 120
gaagcaggga gtgagtctct gagtgttgga attgtaaggg atcagaagca gggatcagaa 180
gcagtggtga agttcatcca ccataaaaca cacaggtgac tttgccttga atctgcagga 240
ctgaagccaa ctcttgggca cagaccctta gtcccttcct tggccactct aagtcagata 300
gtccagagcc aggccctttg ggatgtgaca ccgagataaa tcatagaaaa gctgtgaagc 360
ttggggaaca gagggacttt tggtgaagta ggtggtctgc agtttctatc ttcttgggaa 420
aagcaagctg gaaaagtgaa cagtggttgg taggccatag tgctcccagc tgggtgacat 480
aatgaccaca cagcacagtg atgttattag caactgtgtg gnggantant tgtgggctgg 540
acaaatcaat cgtgtggaaa ttgttaggag tnttattaca ttaaacttgt taacctaaaa 600
taccatnnaa aaatanaatc ngnnntaaaa cnancntata nggatgtnan aanaactcga 660
gcttctaaaa ctntagngga gcctttgtta cgtanatccn ngacatgnnt aagatacatt 720
ggtnagtttt ggacaant 738

<210> 3423
<211> 774
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3423
ctnntttntt ttngaancct tngctcttgt tctttttgcg gatcccatcg attcgtgaag 60
aggagacggt gacctgggct ccttatgtgc ctgaaagagt ttgagtttcc tgttaactcc 120
aaatcaacag tattttcaac aagaaatgtg caattgaaat caagtgctgt ttaagtgcag 180
ctaggatttc cacaggaaga cacttgcagt gaacagagtt atggagcagc aaaaacacag 240
atctatttgg aaaaagagaa aacatatgcg ttgtattttg cttcaattat aaaataccat 300
cctctcaaag gtggttctaa attacaaagg actttgattt ctaggtagat tctgggtaga 360
gacttccttt catattgagg cattaatgac acctttaac ctgggaagca atatgactgg 420
agttgtactt tgagaagatt aatcaggttt ggttgcagaa tgaaagagaa gatgaagtca 480
agagattggt ttagaggctc tagcagaagc ttagtcatat ttcaaaatga tcaaatatca 540
agaaaaattc tgagctgcat aacttgtata aagtaatttt cagtgatttt ttcatggtta 600
tgatnaaaga actggattta nccagaaacc tttacctgga ttcaagattt aatttttcct 660
ttgagcctca tccttaaagg attttcggga aaacattaag gggagccaaa nccnattggn 720
tggttgggcn tgccctnnaa ttgcctttgg actttttaa ccgggctttt gnnn 774

<210> 3424
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 3424
gccnccccnn tttngntctc aacttgtacc ctttttgcan nancncgnnc tncttgcagg 60
ntcccatcga ttcgaattcg ccacgangtt atattaaatt attctttgtt tttctttttc 120
ttttaataaa gcctgcaagt tactaaattg tagtttcata aattctgtag taaagtatca 180
tcttggcagt gtgccaaagg tgaaaatgat gctttctcta acagagaaat tcttagtgac 240
tccagtcgta gaaaaacgtc tttacaacct gaataagatt gaagaattgt gaacatacca 300
tggcctattg gatgaatcat ttgccgtagg ctaaatcaga ctgtagggtt tgtgatggat 360
ttatggagta tgtgggtata gaaatcatga atctagcatt tgttttcaga gattcaagca 420
tagtcttaag ggtanatcag aaatgacaaa tgaattcaaa acctagcagg tgcattgtna 480
atgtgtgccc agttntgttt tggaaatggc agttccttgg ggtcatgttt ctactggcaa 540
aatttgcaat antgtnctat tgtntgtaat ttcaaaattt ataagattat cccccgttcg 600
cccaagtaaa acctgtnctg cccaatanaa tcctggantc gnngagaaat cgcntccatt 660
cgnngntcaa ctcgggatnc ntcgncttaa naaaatnttn tccnggancc ccntcatnan 720
gaanaacacc anactattnn gggnacctgn aangctcaat ngcccnngcc ncnnangncn 780
nttttccngg naannn 796

<210> 3425
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3425

ctacttgttc tntntgcagg atcccatcga ttcgaattcg gcacgangtc actctgtcac 60
ccaggctgga gtgcagtggt gtgatcatag ctcactgcag cctctacctc ctgacacaag 120
ctgtcatccc gctttggctt ctcaaagtgc taggattata ggcgtgagcc accatgcccg 180
accagtttct gcttttatta aaattgttca cagttttata cattcatgtt cattaaaaat 240
gctatttaga aaagagtttg ataaaataaa tattatacaa aattcgaaga aaaaagaaaa 300
gagtttctgt ttcagtcaca aattagggtt attgtgatgt gtatttatga tgaccattga 360
acaaatgtga agaatactgn gaattctatg actttatcaa aatcagccac atcncaggag 420
cttgcagttg ttgaccaaat gaatgatgac atagagtagn tcagatctat catgtgctct 480
tctatctaat cagtccaata tttccttggn cctcaagcca acattcattt tttatgtata 540
acccttcttc atgattntna aatnttgata gggtaaactg ctaatgagtt tcacaaatgt 600
agcacttta aaaggaaaaa tnnnatggan agtgaaaaca acttgcctac ctataattgt 660
gggtctctaa tctttctggt tttaaaaann aaaantggca ttgctaggtt tcnnaancan 720
aaaaannaaa aacnct 736

<210> 3426
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3426
ctacttgttc tntntgcagg atcccatcga ttcgaattcg gcacgangtc actctgtcac 60
ccaggctgga gtgcagtggt gtgatcatag ctcactgcag cctctacctc ctgacacaag 120
ctgtcatccc gctttggctt ctcaaagtgc taggattata ggcgtgagcc accatgcccg 180
accagtttct gcttttatta aaattgttca cagttttata cattcatgtt cattaaaaat 240
gctatttaga aaagagtttg ataaaataaa tattatacaa aattcgaaga aaaaagaaaa 300
gagtttctgt ttcagtcaca aattagggtt attgtgatgt gtatttatga tgaccattga 360
acaaatgtga agaatactgn gaattctatg actttatcaa aatcagccac atcncaggag 420
cttgcagttg ttgaccaaat gaatgatgac atagagtagn tcagatctat catgtgctct 480
tctatctaat cagtccaata tttccttggn cctcaagcca acattcattt tttatgtata 540
acccttcttc atgattntna aatnttgata gggtaaactg ctaatgagtt tcacaaatgt 600
agcacttta aaaggaaaaa tnnnatggan agtgaaaaca acttgcctac ctataattgt 660
gggtctctaa tctttctggt tttaaaaann aaaantggca ttgctaggtt tcnnaancan 720
aaaaannaaa aacnct 736

<210> 3427
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3427
tnntntnntt nantngaacc ctttnctctt gctctttttg caggatccct cgattcgaat 60
tcggcacgag cacaaggaga agaagttaat taacattgaa ngatgagaag acatcttgga 120
agaacttgaa ttgggccttg gaagaagaac agccattcaa atagatagaa ttgtggtagc 180
aaaggcatag aggtaggaaa gtatagatct ccagggacag tagtcatggg gttggggcac 240
tgttggaatt taaggttgga aggatatatt ggagcccctt gaatacggta acaaggcaca 300
ccttgggcag tggagagtta tcagagtgtt tgaaaaggag ggttattgag taaataaata 360

gactggtact ttaggaattt taaaatgtgg atcattgtac tactaataac tatttatttt 420
atatttacta tctactaagt aatttacatg tattttcttg tactgactgt aaaccttctg 480
ggtgtgggtg ttttaagtgc cattttactg atnaagaaac tgaggcttaa atagttgaaa 540
taagtcaccc tgttagtgag tggccagaat gacaagtcag atctanggtt tgtctaactn 600
ccaaagatna tataaaaata atggatctct ccttttccct tatgcataaa atatggggag 660
cnttttaaa tcattaccca tncgattgnc caaaaaaata cctttnggga aaactgatta 720
ttantattcc anaataaatt tcaacggcct gcntngnctn ctttacaact ttnt 774

<210> 3428
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3428
aaacantttg ctcttgttct ttttgcaagg atcccatcga ttcggccaac ttcaattccc 60
ttttagtcat ctacttccta ctaacagctg taactaggat gagtcaaaat caattgccta 120
tgctcaccag atccctgata aattcccatg aagccacctg aaaggtggta aaagcaaggt 180
aaaacgtggt gaaagcaagg taaagaaggt agatttcaca attttgtttt ttaaaaaggg 240
gaatcttccc tgaattcttt gaggtactaa gtacgtggtt taatgcatat tttcattctt 300
gttagcagtt taaaaataat gtttcagaga ctgtattcac gattgctaaa aagcattttt 360
tctactaatc attgttcatg ggacttaaca atggaagata actgggaaag cagtaaatat 420
aggaaaccac taatagtgtc tccttcttcc taccctgacc ctctctttgg cttcagaaag 480
tgacgaggaa aatgtatctt tcacaaagaa aagttatacc acagaangta ctaaaaagca 540
acaactgcct ttggggacag gaaacttaca gaggggatta ttatagaggg ataacatacc 600
gagtttctat ttcaataaga gggaaattgg tttatattct gttcacactt gtttcaaaac 660
cctctcctct aaaagcatgt gttttttgga attcaaggaa tgtaccgttc tttccccaac 720
ccttaaactg gggggtcann 740

<210> 3429
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3429
tcttccattt naagcccttt gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagag agggtggggt ctggccacat aggtacctnt gtggctctgg tctggggtta 120
gacactgtta gggactagca tttattggac ttgtaaagac agcacctcag aattagtaac 180
tacttgcatt ttanggtctg ttttatgaan ccaacaagtg aatgtaaaat aggctctgca 240
tcttttctga gagccctgtc actgggcagt gagcatttcc aaaattgcng ctctgtcaca 300
atgaaccatg aatacttaag aaagggaaag taggaacang gagcatagcn aagcataact 360
tgctgtgttc canggattta aaaataaatt actgtcnaga gcaatataag ggtcatgggt 420
ttgatcagga actttttgta aatgaaaaag ttcacaactt ggaaaaaaca gtgctagatg 480
tgttatggaa attgttatca caaattattc cactgaaact caagtatnta anacaacaat 540
atatcgctgt gaaatnttaa ttttgacata tggaaangtn accnaaaaat tttgaaccca 600
taccttnttg gcttnaaatt gcanggtggg tacccnattt nttaaaaatn annanacctt 660
tnnnnccaaa aatnacttna tnctacaaaa aattttccnc ggnccatggt taanaacctt 720

gnncncccttt ttnaaacttt tac 743

<210> 3430
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3430
tgtcctttna attctaatgc ttggctactc gntctntttg cangatccca tcnattcgan 60
tncggcacga gggcaggggc ccttanagtc ttggttgcca aacagatttg cagatcaagg 120
anaacccagg ngtttcaaag aagcgctagt aangtntctg agatcctngc nctagctnca 180
tnctnagggt aggangaana tggctnncnn aancatgcgn gtgctcctat tgctganctn 240
nctgnccaaa ncatgagtcc tgggtgatat catcatgaga cccacatgtg ctcctgnatg 300
ganttaccac tacttcaaat gctatgagta ctntcagaaa ctntngaact ggtctgatgc 360
ccntgntann naacttnntn nctgnttggc ctnncctntc tagatcaang gancngcnnt 420
aatcccnaan ttcatntgan tnaagatcan nngttcctgc tnggcacctt tcnagnataa 480
tccccttttn gcttgntnaa acggaantnn anaaggngtg tntnnttcna atcttattan 540
aattcttgtn attncatttg ctataatccc tggagcctgg atttcctgga anccgtaaaa 600
cngggcttct aagcacctta cncnnttcca tccttgaaag nanccccgt nnncatncan 660
tnagnctnct anttntaant cntattggag accctnaana ttccntttac atcaaanggn 720
nggtataana atntttcngg nattttncag ganctgngta aaattnttat tntacc 776

<210> 3431
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 3431
tnagtttgaa tgcttngant tgctaatagc ttggctactc gttctttntg caggnatccc 60
atcgattcga attcggcacg agcagtggct ggataaaagg atgtgtggga aagaactgag 120
ttgaaattag gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa 180
ttagggctga cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac 240
aggtgccaga caccagttaa aaagctgtta ttttctaagc agtagacaaa ggtttacact 300
gacaatagct gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac 360
aactaaattt tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct 420
gtcttggttg agttggtgga ttaactgaga ttaacanagc tggaggaaat gtaaaaagaa 480
aggcaggatt gttcattttg tcttttgttt gttttgggga acagggtcaa aattttcatt 540
ctgcataagg taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat 600
cttggaagaa angcaaccat agtaatattt ttgagttnct actgnttatt ttttcaataa 660
aaaactcagg ttctcaagtt tancagattc atnggtctta ggaaaggtag ctgttnaacc 720
aaaatantaa t 731

<210> 3432
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 3432
tnagtttgaa tgcttngant tgctaatagc ttggctactc gttctttntg caggnatccc 60
atcgattcga attcggcacg agcagtggct ggataaaagg atgtgtggga aagaactgag 120
ttgaaattag gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa 180
ttagggctga cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac 240
aggtgccaga caccagttaa aaagctgtta ttttctaagc agtagacaaa ggtttacact 300
gacaatagct gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac 360
aactaaattt tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct 420
gtcttggttg agttggtgga ttaactgaga ttaacanagc tggaggaaat gtaaaaagaa 480
aggcaggatt gttcattttg tcttttgttt gttttgggga acagggtcaa aattttcatt 540
ctgcataagg taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat 600
cttggaagaa angcaaccat agtaatattt ttgagttnct actgnttatt ttttcaataa 660
aaaactcagg ttctcaagtt tancagattc atnggtctta ggaaaggtag ctgttnaacc 720
aaaatantaa t 731

<210> 3433
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 3433
tnagtttgaa tgcttngant tgctaatagc ttggctactc gttctttntg caggnatccc 60
atcgattcga attcggcacg agcagtggct ggataaaagg atgtgtggga aagaactgag 120
ttgaaattag gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa 180
ttagggctga cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac 240
aggtgccaga caccagttaa aaagctgtta ttttctaagc agtagacaaa ggtttacact 300
gacaatagct gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac 360
aactaaattt tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct 420
gtcttggttg agttggtgga ttaactgaga ttaacanagc tggaggaaat gtaaaaagaa 480
aggcaggatt gttcattttg tcttttgttt gttttgggga acagggtcaa aattttcatt 540
ctgcataagg taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat 600
cttggaagaa angcaaccat agtaatattt ttgagttnct actgnttatt ttttcaataa 660
aaaactcagg ttctcaagtt tancagattc atnggtctta ggaaaggtag ctgttnaacc 720
aaaatantaa t 731

<210> 3434
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3434

tctccttgaa attgcttatn gctaggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag 120
gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga 180
cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga 240
caccagttaa aaagctgtta ttttctaagc agtanacaaa ggtttacact gacaatagct 300
gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac aactaaattt 360
tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct gtcttggttg 420
anttggtgga ttaactgaga ttaacagagc tggaggaaat gtaaaaagaa aggcaggatt 480
gttcattttg tcttttgttt gttntgggga acagggtcaa aattttcatt ctgcataagg 540
taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat cttggaagaa 600
aggctccata gtnatatttt tgagttncta ctgnttattt ttcaataaaa actcangttc 660
tcangttagc anatcatggt cttaggaagg tagctgnana accaaaatat at 712

<210> 3435
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3435
tctccttgaa attgcttatn gctaggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag 120
gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga 180
cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga 240
caccagttaa aaagctgtta ttttctaagc agtanacaaa ggtttacact gacaatagct 300
gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac aactaaattt 360
tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct gtcttggttg 420
anttggtgga ttaactgaga ttaacagagc tggaggaaat gtaaaaagaa aggcaggatt 480
gttcattttg tcttttgttt gttntgggga acagggtcaa aattttcatt ctgcataagg 540
taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat cttggaagaa 600
aggctccata gtnatatttt tgagttncta ctgnttattt ttcaataaaa actcangttc 660
tcangttagc anatcatggt cttaggaagg tagctgnana accaaaatat at 712

<210> 3436
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 3436
tntcattcaa gtnctaangc tggtcttttt gcaggatccc tcgattcgaa ttcggcacga 60
gactgctcct tcattcccaa gaagaaaaga caagtactgc tacttccaaa actcagacac 120
gacttgaagg tgaagtgact cctaattcct tgtcaaccag ctacaagaca gtgtcattgc 180
cattaagctc tccaaacata aagctgaatc tcactagccc taaaaggggt cagaaaagag 240
aagaanggtg gaaagaagtt gtacgaaggt caaagaaatt gtctgttcca gcctcagtgg 300
tgtcgaggat aatgggaaga ggaggatgca acatcactgc aatacaggat gttactggtg 360
cccatattga tgtggataaa canaaagata agaatggcga gagaatgatc acaataaggg 420
gtggcacaga atcaacanga tatgcagctc aactaatcaa tgcactcatt caagatcctg 480

ctaaggaact ggaagacttg attcctaaaa atcatatcan aacacctgcc ancnccaaat 540
caattcatgc taacttctca tctggagtag gtaccacagc agcttccagt aaaaatgcat 600
ttcctttggg tgctccaact cttgtnactt cacangcaac aaccgttatc tacgttccca 660
ncccgctaat aaacttaata agaatgttct tagaaaaaaa atntnaaaan ctcgact 717

<210> 3437
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

<400> 3437
gngtcatnct ttnaantttc taatngctng gctacttgtt ctttttgcag gatcccatcg 60
attcgctggt tttgattggt cagattcttt tttcactagc ggcggttttt cttttatgtc 120
ttgttataaa gaagtatctc attggaccct attatcggaa gctgcacatg gaaagcaagg 180
ggaacaaaga aatcctgatc ttgggaatat ctgcctttat cttcttaatg ttaacggtca 240
cggagctgct ggacgtctcc atggagctgg gctgtttcct ggctggagcg ctcgtctcct 300
ctcagggccc cgtggtcacc gaggagatcg ccacctccat cgaacccatc cgcgacttcc 360
tggccatcgt tttcttcgcc tccatagttt ctcctggcgg cgctggtcct gtctctcatt 420
ctgccgagga gcagccagta catcaagtgg atcgtctctg cggggcttgc ccaggtcagc 480
gagttttcct ttgtcctggg gagccgggcg cgaagagcgg gcgtcatctc tcgggaggtg 540
tacctcctta tactgagtgt gaccacgctc agcctcttgc tcgccccggt gctgtggaga 600
gctgcaatca cgaagtgtgt gcccagaccg gaanagacgg tccagcctct gatggctcgg 660
agatgatgga ccgtggaaag ggaaccntct gtggggagtg aaccgcttaa natggccagc 720
at 722

<210> 3438
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3438
tnnttntcca cttggaaccc cttttnngaa ancccgcagg natcccatcg attcgctctg 60
ggagtagctg ggattacagg catgcaccac catgcctggc taattttnta tactctagta 120
ntagacaggg tttcgcccat gttggtcagg ctggtctcaa actctngacc tcaggtgatt 180
cacccacctn agcttcccaa agtgctggga ttataggcgc gagccaccat ggctcancct 240
catgttcgtt tttaaaactt aggatggtgg ctcttntaca ttgattggca ggaactcttc 300
atattacgag gcacttagct agntgnctgt gaaatanaat actaatgatt gaactttcta 360
ggaagtgcct attctgctaa tagtgnaaat atacacttat ccagggtcag naatactnna 420
gtntacccac ttaaangatc tagacataca tgaacttggg cttacttgcc cgttanaatt 480
gcatatctta naatagtcca tcaccttact taangnagat atgcntngat tatccngatt 540
actcnntaac atagcctctc nccttancgt tctcacctga atgtantacc tggacctctn 600
caagtcnanc agaggccnat aataaaagtt canaagttta nncnnnacac ccctctcccc 660
ccncccanta ncccaanccc ctcccannac ccccctctcc ncccacncct cacctcnnna 720
tccncccacc ccactcnncn nncannncctt cccccccacc ccccnncnct acncctccnt 780
cccatcncg 789

<210> 3439
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 3439
ancctttnaa attccntngc cntaggctac ttgttctttt tgcaggatcc catcgattcg 60
gctgcacagt gggaagggca ctgggctgga agccctaccc atgtcaggga atgtctgggc 120
ctcagatttt tattttctag aatgaagata cttacccccc aattgctgag atatttgaat 180
aaaagtatat gtgaaggatt ttgtaattat agaatgtcct acaaatatga gtagttcgtt 240
tgctactttt ttggcgaaga aaaatattgg gatgcatgaa taatatctac ctaaggtacc 300
taaggttgta ttcatcccat ttattgaatg ccaaggatat accagctact gctccagatg 360
ttgtattcag ggaacagaag aagagtccct gtgcccatgg agctaacagc attctagggg 420
aggaaagatg ggtcagctga ctttcacgat ctcaggtact gatgaagatt gtgaagatta 480
ttacatcang tgaatgtang ggtgatttag agaaagctgg tagctaggct gttcaaggaa 540
gggcctctgt ganaaagggg atggntggct ggntgtggtg gttcacgcct atnatcccag 600
cactttggga ggttgggagt ttgagaccag cctgaccagc atgganaaac cccgtctcta 660
ctaaaaatac aaaattagcc cggcatggtg gcacatgcct gtaatccagc tcc 713

<210> 3440
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 3440
ancctttnaa attccntngc cntaggctac ttgttctttt tgcaggatcc catcgattcg 60
gctgcacagt gggaagggca ctgggctgga agccctaccc atgtcaggga atgtctgggc 120
ctcagatttt tattttctag aatgaagata cttacccccc aattgctgag atatttgaat 180
aaaagtatat gtgaaggatt ttgtaattat agaatgtcct acaaatatga gtagttcgtt 240
tgctactttt ttggcgaaga aaaatattgg gatgcatgaa taatatctac ctaaggtacc 300
taaggttgta ttcatcccat ttattgaatg ccaaggatat accagctact gctccagatg 360
ttgtattcag ggaacagaag aagagtccct gtgcccatgg agctaacagc attctagggg 420
aggaaagatg ggtcagctga ctttcacgat ctcaggtact gatgaagatt gtgaagatta 480
ttacatcang tgaatgtang ggtgatttag agaaagctgg tagctaggct gttcaaggaa 540
gggcctctgt ganaaagggg atggntggct ggntgtggtg gttcacgcct atnatcccag 600
cactttggga ggttgggagt ttgagaccag cctgaccagc atgganaaac cccgtctcta 660
ctaaaaatac aaaattagcc cggcatggtg gcacatgcct gtaatccagc tcc 713

<210> 3441
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(724)

<223> n = A,T,C or G

<400> 3441
cttgcctttg aaaancgttg gctactngtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgaggc ggcgctgacc cggccggccc cacacccgct cttcctcttc tttgccgcgg 120
actccctttc ctgcctccaa gacctggtgt ctcccactgt gagcccagct gtcccacagg 180
cagtccccat ggacctagac tcaccttccc cttgcctcta tgaacctctg ctgggcccag 240
cccctgtccc agctcccgac ctgcacttcc tgctggactc aggcctccag ctccctgccc 300
agcgagcggc ctcagccacc gcctcccctt tcttccgggc cctgctgtca ggcagctttg 360
cagaagccca gatggacctg gtgcccctgc gaggtctgtc gcctggtgca gcctggcctg 420
tcctgcatca tttgcatggt tgtcgggggt gtggggctgn nntggggccc gtgcccacac 480
cangcnancc cctgtatggg atcanaggcn cgaagangca ntgnangctg ntggcanntn 540
aantactgnc tgggctggaa nangaactnn taaaagtcnt ngcccnnatc caccttggna 600
cccnannttn nnccnntant cnnnggggntn angtggtnnn nnctngggac agntcnntnt 660
ggnntgncna tngnncnnat gnanacttgg ggttcannaa ncntttccnn atgnaancng 720
ngtc 724

<210> 3442
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3442
gttcaatnnt tgaaatttna nntcgctagg ctactngttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgagcct tccacggtta tttcacagat atggagagct ggaagcaggg 120
agtgagtctc tgagtgttgg aattgtaagg gatcagaagc agggatcaga agcagtggtg 180
aagttcatcc accataaaac acacaggtga ctttgccttg aatctgcagg actgaagcca 240
actcttgggc acagaccctt agtcccttcc ttggccactc taagtcagat agtccagagc 300
caggcccttt gggatgtgac accgagataa atcagagaaa agctgtgaag cttggggaac 360
agagggactt ttggtgaagt aggtggtctg cagtttctat cttcttggga aaagcnagct 420
ggaaaagtga acagtggttg gtaggccata gtgctcccag ctgggtgaca taatgaccac 480
acagcacagt gatgttatta gcaactgtgt ggtggagtag ttgtgggctg gacaaatcaa 540
tcgtgtggaa attgttagga gttttattac attaaacttg ttaacctaaa ataccatcaa 600
aaaanaaaan nttnatgntt nnacntacnt gtnatnntan aaaaaaaaac nttgagccct 660
ttaaaaccta ttanngngtc ctttttaccn taaaatccan accttnntta agaatncatt 720
tggattgaat ttttggncct 740

<210> 3443
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3443
gttcaatnnt tgaaatttna nntcgctagg ctactngttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgagcct tccacggtta tttcacagat atggagagct ggaagcaggg 120
agtgagtctc tgagtgttgg aattgtaagg gatcagaagc agggatcaga agcagtggtg 180

aagttcatcc accataaaac acacaggtga ctttgccttg aatctgcagg actgaagcca 240
actcttgggc acagaccctt agtcccttcc ttggccactc taagtcagat agtccagagc 300
caggcccttt gggatgtgac accgagataa atcagagaaa agctgtgaag cttggggaac 360
agagggactt ttggtgaagt aggtggtctg cagtttctat cttcttggga aaagcnagct 420
ggaaaagtga acagtggttg gtaggccata gtgctcccag ctgggtgaca taatgaccac 480
acagcacagt gatgttatta gcaactgtgt ggtggagtag ttgtgggctg gacaaatcaa 540
tcgtgtggaa attgttagga gttttattac attaaacttg ttaacctaaa ataccatcaa 600
aaaanaaaan nttnatgntt nnacntacnt gtnatnntan aaaaaaaaac nttgagccct 660
ttaaaaccta ttanngngtc ctttttaccn taaaatccan accttnntta agaatncatt 720
tggattgaat ttttggncct 740

<210> 3444
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3444
tcntcgtttn natncttgga aatttgnana tngctaggct actngntctt tttgcaggna 60
tcccatcgat tcgaattcgg cacgagcctt ccacggttat ttcacagata tggagagctg 120
gaagcaggga gtgagtctct gagtgttgga attgtaaggg atcagaagca gggatcagaa 180
gcagtggtga agttcatcca ccataaaaca cacaggtgac tttgccttga atctgcagga 240
ctgaagccaa ctcttgggca cagaccctta gtcccttcct tggccactct aagtcagata 300
gtccagagcc aggccctttg ggatgtgaca ccgagataaa tcatagaaaa gctgtgaagc 360
ttggggaaca gagggacttt tggtgaagta ggtggtctgc agtttctatc ttcttgggaa 420
aagcaagctg gaaaagtgaa cagtggttgg taggccatag tgctcccagc tgggtgacat 480
aatgaccaca cagcacagtg atgttattag caactgtgtg gnggantant tgtgggctgg 540
acaaatcaat cgtgtggaaa ttgttaggag tnttattaca ttaaacttgt taacctaaaa 600
taccatnnaa aaatanaatc ngnnntaaaa cnancntata nggatgtnan aanaactcga 660
gcttctaaaa ctntagngga gcctttgtta cgtanatccn ngacatgnnt aagatacatt 720
ggtnagtttt ggacaant 738

<210> 3445
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3445
tctccttgaa attgcttatn gctaggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag 120
gagttagaat tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga 180
cataatcaga tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga 240
caccagttaa aaagctgtta ttttctaagc agtanacaaa ggtttacact gacaatagct 300
gtggagatag agaaaagctg cgagatttca gagttttcca aggtgtaaac aactaaattt 360
tgtgatcaaa atgataaggg ccatctaata agctggggaa tgtgggatct gtcttggttg 420
anttggtgga ttaactgaga ttaacagagc tggaggaaat gtaaaaagaa aggcaggatt 480
gttcattttg tcttttgttt gttntgggga acagggtcaa aattttcatt ctgcataagg 540

taggtttagt ctttttcaaa acattctagt aggcaagtct gtagctgaat cttggaagaa 600
aggctccata gtnatatttt tgagttncta ctgnttattt ttcaataaaa actcangttc 660
tcangttagc anatcatggt cttaggaagg tagctgnana accaaaatat at 712

<210> 3446
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 3446
ggagggatga aaatgagccc tgggagggag gaagggacga ggaggggtgg ctgcatgtta 60
ccgtccncta cctctcccac gtggagggtg gagcagttat gagggaggaa gtcaactgct 120
gttcagcctc agaataaagg tgccgttcac tggctcagtt acctcctgtg taccggcatc 180
ttgtgttggg aatgttcccc cctncctagg gaccaaggan cacccctaca aaaanagtaa 240
ntggttgggt gatactccct taagccaaan aggagctacc caacctgttc ttagggaccc 300
angttaccta caagggtggg agagaattca atgggcccag atgttggtgg aagccccatc 360
tctggggctc angtttcttg gaanacttat actatcccta ccctcctnaa ngcctgnatc 420
agactaaaat ntgtataant canngcntgg gaccctantc nanggtcttg ggaagctncc 480
ctnnccnntt ngggtnccna nnagcnaaca ttnntcncaa gggcnccnct tatnggnaaa 540
antgtnggnn cacattcccc ccttctccaa aggaangngg ccncgnatta acaatnngct 600
annctttttcg ccattggctn aaaancccct ccccacattt ccatnatttc angnttgngc 660
nncattatct attnctttat antgnnntgg tanncncttn ttnnactcaa agnnnatcnc 720
ttacctttca cnatcccnca attttncntg gctccanctg tgnnccnttt nganancctc 780
nncctncttn cttncaggga ntnttanang ntnatctaaa tntgnggcnc atannt 836

<210> 3447
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3447
cttacnttng ctctcgttct ttttgcaggn tccctcgatt cgaattcggc acgagttcag 60
ggttggtggg tctgtggacc ttgagctagt ttttaatcaa catggaaact ccagtgatct 120
atttaaaaac ttgcattggg tcatgccagg tttattggag gttataccct ccaatgtatt 180
tccaactcag ggttaaagcc aaggtcctta tggtggaaga tggggcatat aaactggcat 240
tctggcgctc acacactcca atatctacta ctctcccctc ttgctcgctc agctgtggct 300
tgcttattca gctttttgct cttcctggaa tacatcaaac atatgtaggc ccagggtttt 360
aaccatttta acaactgaac ttgtaactgc actagttctc caggtaagca gaagtattag 420
ggttatggac agtttatccg aagtaataac caggaatgcc taataaaaac atgcangtat 480
tgtggtaaaa aatagagttg gtgaacaagg agttaccttc tgactgnttc tcttttagtg 540
aagtaggagg caaggttatt agctaagagt gagatggtta ggagatggtg taaatttaaa 600
ggaaaagaat taaggtatga gatagttggc taggataatg aanttnntga atggttttga 660
gctaagtngt attaaaatcc cctttaggta atagacnatg aanttccaaa gcnccactta 720
gccaaccctg ggttctttct tttcttt 747

<210> 3448

<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3448
ttnnnntcaa cnggacnnct tttacccttc ccgttcttnt tgcaggntcc catcgattcg 60
aattcggcac gagatgttgc ccaggctggt ctcaaactct tntttntcaa gcaatactcc 120
tgccttggcc tcccaaagtg ctgggataat aggcatgagc catcatgcct ggccgaactt 180
atttttaaat tctttgggaa tctaaaagga ctatgtgctt tctttttttac tggattatgt 240
gagaagataa tagtttgcag agaaattcag tgaagcagct gataaaatgc tttaaaaata 300
tatttcagag aattgagcaa taacagtgat gtcaaaatag tagccccacc ttctccagcc 360
cacctaaacc aacactgagc atggacacat gcatttcttg tcatcagcca gacgaaatgg 420
agtagcaaaa atccatccta tatgtcattg agtcttataa tacagttctc ttttctctgn 480
ctattaataa aagaccccac tgaatgaagc cggaattctt ttaggcaatt taaactttct 540
gaaatagagg aaagttggaa aggggcggta gtcaaggaat atagaagtaa aaaatatttt 600
tgaggtcaaa tgcttatctg aacagattgn ctagtctgat tatttttaaa agtattatgt 660
tgatccagtg gtttaaattt gaatcaaaag taatgattta accaaaggtt gtgcttccat 720
tattaacctc agaaacacta agaaaccgaa atcacttttt 759

<210> 3449
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3449
ttnttncnnc tnntggaacc ctttttgcag gatcccatcg attcgaattc ggcacgagca 60
aaaagctgct gctgggcagc cccagctcgc tgagcccctt ctctaagcgc atcaagctcg 120
agaaggagtt cgacctgccc ccggccgcga tgcccaacac ggagaacgtg tactcgcagt 180
ggctcgccgg ctacgcggcc tccaggcagc tcaaagatcc cttccttagc ttcggagact 240
ccagacaatc gccttttgcc tcctcgtcgg agcacgcccc atattagtgg tccgggcccg 300
ggcaggccca gctcaaaaga gggcagacgc agcgacactt gttcttcaca cacccccatt 360
cggcgtagta cccagagagc tcaagatgtg tggcagtttt cggatggaag ctcgagagcc 420
cttaagttct gagaaaattt gaagccccca ggggtggggt ggacgcgtgc cgcccagtcg 480
acgtcagcgt ggtctgtcat cctgctagtt ngtgatgttt tctgacagta gcctncaaga 540
acccgttgtg cgaagacaga gtcctgcaga gtccttccag cctagcctgc agcgccattt 600
tatttatatt ttttaataaa aagtaaaaca nnaaaaacag acccacattg gaacagtgaa 660
tcattccata gagaggcccg tggaccatcg ttgtcatgag tgatgcctgg ccttttgaaa 720
ccagccnacc taattc 736

<210> 3450
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(738)
<223> n = A,T,C or G

<400> 3450
cttcttttcn tnncacgttc tttttgcagg atcccatcgg attcgggagn aactgctcac 60
tccttttccc tccccataca aactcaaagt cccctgggcc ccaattcaga gttatgtttt 120
ttttggcaca tactagaaag gcagtgcctc agcccttccc tgaatccatg gaggtgttct 180
gtttggggct ttttagactg ctgctgctca gctggttgct tgaactgaca gtaggccagc 240
ctgttctctg ccattcccta gtcatcctgt gcctcaccac agcttgctta gagcaagcct 300
tttctcagac cttaggcaca gcctctcctc tttacctgat caatgttaaa tgtaagcacc 360
cctgatccca ggacataagg aaagatgccc aattgtactt ttgttctata gcctgtgaaa 420
tggctagttg atcatttttc cacaaagaat tangtgttaa gagttttcct tcangcttta 480
cttangagaa tggactaagc tgaangtgta ctttaccagc aagagtcaac tctagaattt 540
cangatgttc cttctattgc ctcttagcca tctgtcagga aatgtaactn tggttttatt 600
ttnggctatt ccanggggta agccanaaaa tngnaatgat nattctgatt aatagcagaa 660
acttttcat cccaaattat aaggggnctg ctcttttaaa aagcntctaa gctaagtcna 720
gagcttagga actgtgac 738

<210> 3451
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3451
ttnnnttntt gaacttttta ccctgttctt ntgcaggacc catcgnttcg aattcggcac 60
gagggctctg accctgcagg actgggcagc ccagcggtgc accatctcct accgagcccc 120
agagctcttc tctgtgcaga gtcactgtgt catcgatgag cggactgatg tctggtccct 180
aggctgcgtg ctatatgcca tgatgtttgg ggaaggccct tatgacatgg tgttccaaaa 240
gggtgacagt gtggcccttg ctgtgcagaa ccaactcagc atcccacaaa gccccaggca 300
ttcttcagca ttgcggcagc tcctgaactc gatgatgacc gtggacccgc atcagcgtcc 360
tcacattcct ctcctnctca gtcagctgga ggcgctgcag cccccagctc ctggccaaca 420
tactacccaa atctgaaaaa gcagcatgtt gagaagatgg ccccttgtgc cttggaaaga 480
ggttcccatc cctcattgga atcaccaccc attccatcca ggacttctct tacacttggg 540
ggtagccggg gtcaggacaa tcatctcagt cctgcatctt ttcttctgct ttcttccctc 600
caagagcaaa acctgggcaa ggggacttac tgagtggggg tgggtggggg ttgggaaaag 660
ggaaacnnnt gggatatggn acatggntct nagcaggant gntgagctac ntancgtntt 720
gactcnaaan tnngngagca gnnnat 746

<210> 3452
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3452
ttnntnttcc ttgaancctt tttctacann cnccttgca gatcccncgt tcgaattcgg 60
cacgagagac aaagaaaagg tggcaatcat agaagagttt ntagtaggtt atgaaacctc 120

tctaaaaagc tgccggttat ttaaccccaa tgatgatgga aaggaggaac caccaaccac 180
attactttgg gtccagtact acttggcaca acattatgac aaaattggtc agccatctat 240
tgctttggag tacataaata ctgctattga aagtacacct acattaatag aactctttct 300
cgtgaaagct aaaatctata agcatgctgg aaatattaaa gaagctgcaa ggtggatgga 360
tgaggcccag gccttggaca cagcagacag atttatcaac tccaaatgtg caaaatacat 420
gctaaaagcc aacctgatta aagaagctga agaaatgtgc tcaaagttta caagggaagg 480
aacatcagcg gtagagaatt tgaatgaaat gcagtgcatg tggttccaaa cagaatgtgc 540
ccaggcttat aaagcaatga attaaatttg gtgaagcact taagaaatgt cattgagatt 600
gagagacttt tataggaaat cactgatgac ccagtttgac tttcatacat actgtatgan 660
ggaanattac ccttagnatc ttatggtggg actttattta aaaacttnca nnaatgttcn 720
ttcgacagcc ttccatttta acttcnaagg cnncaangaa ttnt 764

<210> 3453
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 3453
ttnttccncc tttttnaanc ctttttgcag gatcccatcg attcggactg ctggccgagc 60
ccgctgggag tctagaaaga gaaaatctgt ttctagacct cagttatttt cccatttttg 120
gttgttttga agcagtaaca tttttctcag tgcacatgca atttgggttt tagagaagat 180
ggccaccagc tggcttccta gatattttaa acttttgttc tttaatatgc tgtccatggc 240
tgagtttatt agtacatggg cttagtgacc acaaaatatt ttattaagaa actgtttcaa 300
aaataaattt gcactgttca tttttctggc ctcgctgttc tccatagagc aagggtaatc 360
ctagaaaaat ttttttttttt ttaaattatg caacgtaaga tgtcctcctt gatagaagtc 420
ttagctcctg tgttacaagg gagaactcat ttgagatcag tctgttggca ttgcaatgaa 480
gtgctttgta tcangaaagt gtacactatt gacctttttt cctgttcaca agctgagcca 540
tatgtacata atctagattt tgttttcata gttttgcact ttttatagcc tatttttgaa 600
gattaacaca tttgcaagat gatntgactc aatctttgcc taatccaaat gagtgttacc 660
agagagcttg cntgtgacta gaacccataa aattcttaaa angggtatg ttgataatag 720
aagggcnggg aatttaaaac ccnggntttt aaaaaaat 758

<210> 3454
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3454
tntcccttga acccnttttg ntntcctgca gggatcccat cgattcgaat tcggcacgag 60
caccttttcct ccagtttcca ataacacatt cctcttttcc acctgagacc tcaccagaat 120
caccttttaat gtctatattc ctaccaatag tctttttaag gcaatatagg ctttctctaa 180
catgcacttc aaacttcaag atggagggga tgccatacaa caggactatg tgatggtttt 240
tggctgtgtc cataggaagt cacaacaggc aagggaaaga aaccagaacc cagtcatgga 300
gttaagaagt gagtcagaga gtagatgggt agggacagtg aggtaaggcc tctttctaag 360
gaagtttggc tgaaggatag actagctgga cacatgctgg ctgtgtgggg tagagggagg 420
aatgatggan ggtaggagag ccttgagcct gcgagaagag tctctagaat agagaagctg 480

aggttaaagt tgtggaagac agtggggata actgagtgac agataatcan gagaagaaaa 540
ggagatccag aatcatgacc agagagatga cctttgccaa gagcacagcc atctttcact 600
gtcncanaga ggtaggacaa aacgattggt gttcaagaat tgggtttgta gcacaatatt 660
ttaactatgt cctttaaaaa agtttctccc ccagacacta cccaaagcca gtcctttcac 720
tacagggggc cgacagaccn tgaaaatn 748

<210> 3455
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 3455
tctcantnct aggctcttgt tctttttgca ggatccctcg attcgaattc ggcacgaggt 60
attcagcttg gctggagcag aggcaggagt ggggaactgg ggacaggtga gactagaggt 120
tggcagaaac cagccatagt agtttttgcc tcatttggac aacaaggagc catccaagag 180
agagcggtga agctgatggt gacacagcca tggcgcattg aaataccccc agtggctgtg 240
ttgtagggta tattgggttg gggagggaca aggtcaggag gcatagactc gacatcatct 300
gatgtgattc angacagaat ggcgagcctg aagtgaagtg tctgtaggat aagttggaaa 360
ggaaggaacc aatatgagat attaaagaag tgaaagctat aggtcccagt gccttaataa 420
aggtaaggag taagagaaga ttcgagattg actcccagac tctccagtct gctggacatg 480
ggagatggaa tagaagttga tctcggnntg gtcataggag agcagttact gtgttgagca 540
tggatagcct gtcgttcccc aggagaagga ntacagcttg gctggaaatn ngcaatgccn 600
annttggaga gatccacctt ggggtcactc ctagggggcc naccccttgna nccccttgagt 660
agcaatcccc ccagaaanga tncaaagggc ttgannctna actttaaana ancnnt 716

<210> 3456
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 3456
tttacantag tagctctcgt tctttttgca ggatccatcg attcgaattc ggcacgagat 60
ttgcttcgag ggtagtgtct tactaaaagt taggaacaga gacctagtgg tgtgtccaag 120
gccgtgtcac tttccccttc agcacacccc agcttctgac ctcagagccc aggagctgcg 180
tggacagtgt ggggtgccag gaggaggggc ggtggctggt cctcaggcac gctgcactcc 240
cagccagaca tggtctttcc gtttcttaag tagcaagtgt aggtttcagc tggcagttcc 300
acctgcatgt tctctgcttc gctgccttgg aaggggccac attccccatt cctcttctcc 360
ttacagcgcc tgcctccttt ttcaagcagg cggaaagctg ctgtttctca cgtttcaggg 420
agaggggtga gcggagggag acctgtgtcc gtgccgtccg gctccctggg tgggaacagg 480
caagggatca gatgcccctg acaccacgcc tctggcacac canatgcctc tgcagtcctc 540
gacagcctct tcagtgtccc tcctgcggtg atgtccttac tgtccccagc caaggccggg 600
gaccggtgtt tcactganga cctgcattag aaacattttt taaattgttg tncaggaaga 660
gatgtgtctt aaaacagcat ctttaaagct gantgtattt ctttgcacaa ag 712

<210> 3457
<211> 664

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(664)
<223> n = A,T,C or G

<400> 3457
cacgagattt tgccatgtgg caagttggtt tgtggagttg ggcaggtgtg aaagggtaaa 60
actccacttc tgaatgctgc ttctgccccc tgggacccag cacattgtta gaccatcttc 120
ttgactgaaa attctctcct gatgctgagc cctgcaccac caccttcctt ttcctaacta 180
tgaatagatg gcaaagtcca ctcaaaacaa ccagttaagt gctcacgaga gagtagtcaa 240
gcacctccag aaagaaaccg ggtttttgtt cacatagcan gaagtgactc cctgggtggt 300
nattnatctt ggaaacacag gtagattggc agaaaaacgg gaacatgtag gtaccgcgat 360
gttggtgcat gtncattact ttgggatagg ctttctcagt ctttcctcaa atgatngttg 420
agccagtttt ccaggggggca attctgantg acttgcgctt gtcttatggt gtggtcaagg 480
gactttcana actacngaaa acttttactg anacagctga aacaagagta taccggcntg 540
agagggaaga tgaacactca cctatgtacc actcttttga caatnaatnt agtatttctc 600
aaatcaagtc tnnagactga tcctgtctca aaaaaaaagc ctntagacta ttattgagtc 660
cgtn 664

<210> 3458
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 3458
atcccatcga ttcgaattcg gcacgagcca tgggcggctg cactcccnac anatgggagt 60
gnccagggag gacttgctca gccatggatn cacaccgacn gctgaggggg cgcctggcta 120
cctnntgtac catccctgtg nctacatgct tgcangagga cggatggctt actgnangaa 180
naagccngna tgcanntctg natgagaaca caggcaganc nccctctata gaaagcctgc 240
tttggnanac ntnntcatan agccgagact ncacntacnt cacngccttg gngaanatcc 300
aactcgaggn gatctatgtc ttacgttcct gcaagcgccc ntggagctgc ccntgganca 360
gtgtgccagc cancnagagt gntggnnaag ccccncnnan nnaccttcaa tcatggacag 420
cacnaancgg ntggntctgc gcnagangtg ctgggtaatg agnttacgtn caaggttngt 480
atccactaga gcccgangta tcatanccnc caaccacgta actntgggna atnnnaatna 540
atccaaagat ttantngaaa ctttaattgc gaccantngt aagacaccnt ggtaaatttt 600
agcccaancn aatgaacncc tcnngtcttt gcaattaaaa taaaatnact ggcggnttta 660
nctgcccccc anttngccat ttctnntttt annaaaacag gncngttttc caaccatttn 720
cgnccctttt tcttaaatng ttgccttggn ccgnattntt aaaaantcnn natnctaaaa 780
tagcccgana agnctttgg ancaacnttn taaccttggg ng 822

<210> 3459
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)

<223> n = A,T,C or G

<400> 3459
ggntcttcna atgctnggct ntngttcttt ttgcaggatc cctcgattcg aattcggcac 60
gaggtcacct ccactagagg gggataaaaa ggataatagg aaatcagaat attttgattt 120
gtagttcaac tgttgatcaa ttatctttga gacttttaac attcatgact aaggaggatt 180
aataattaac atgagctgta gaattaaggt ttgtatggca tgataagtat aaaccagttt 240
tgggaccgct ataattctaa aaaagcaggt agactagatg attagttgta cacttattac 300
tgctaattct tgattgtaga acaaattttc ctatgaaaac catgttgtgt attttatatc 360
tctattagtt cgttaaaagt ttancagttt tagatgtcga accagtaaaa aacaagttgc 420
ccattctatc attttttta ttgtggtaaa atatatttaa gataaaattt acgattttaa 480
ccatcttaag tgtacattgg tacagtggca ttggttacgt tcacaatgtt gtacaactgt 540
catccctatc tatttccaaa gctttttcat cacccaaaca gctctatacc cactaacaac 600
aactccacat cacccactcc ccagccctgg ttatctctgn tctactttct gcctctatga 660
attcggatat tccagttggn ncatataagn nggactcata taatatnngc ccttt 715

<210> 3460
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3460
tcttttctaa tgcttggctc tcgttctttc tgcaggatcc catcgattcg tcaccatgtt 60
gcccaggcta gtcttgaact cctgggctcg aatgatcctc ccaccttggc ctcccaaagt 120
gctgggatta taggcgtaag ccactgtgtc tggcctagtg tatgattatg catgagtcac 180
gcaatgttct ggtcctggat tccaggagta gaggacctag ctttaaatca attagtttca 240
gctaaactga ctagaaccag gtcaaagtgt aattctccct ccagctcccc caaaactaga 300
gttgggggga actggaggga gcaaaacact gatttgatac tagtcagttt gcttgaaact 360
agttcaccta aagctagatc tcttaaaacc aatttactga aaacttgttt gcttaaagtt 420
aatgacttaa tgactaattt gccaaaagct caattcctat tttggtgtgt ttatatccat 480
ttaggtgtcc tattcttttt tgtcatgctt tggatatttc aaggatttat atctattcat 540
ccaagagtac ttctgagcta ttatcagcaa cataaattta tcaaatttgc agcactttgt 600
aaaatgatga gaatgcttcc tacctttatg gatgtctntt tctatggtat ctaccattca 660
aaaacttttt taaaaagttt aaaagttcta gcaataaaat ccaattggta cagacatttt 720
gggtatcatt ttttggttct taanccann 749

<210> 3461
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

<400> 3461
ccntcatcct ttttacagnt tttnaactnt ttcngcagnn nccncgantc cgcnantnca 60
nntggggaac atcttcttgt ctgctggaca cctgatttgg gcccggttct ctgccattcc 120
tttctgcaat tacatgggtt tcccagctgt tttgcgcggc cttggagcac ccacagaggc 180
ggncctgct ggcangctat gccctgggtg tgggactctt cctgcttctg ctccagcccc 240

tnacggaccc caagctctac ggcagccttc ccntttgtgt gcttttggag cgggcagggg 300
actcagaggc tcccctgtgc tcctgaccta tgctcctgga tacgctatga actctcaccg 360
gctccccagc cctncccanc aaggggtact gccanggnna agnggcttgg cctngggtcc 420
ccccanaatc tcanggaatt tattgnanng ggganttgna agccngaagc tantctacnt 480
tccccagggg acccaannag caanagtaag cnncattttn cnnaaanggg tgcnnccccc 540
cttntattga aaagggngtn gtntntatcc aangccancn ttgntnatct tgnacggnng 600
accaacggcg ccctatgtnt cccangnaan cctcancann accttctact ttttactcnn 660
actntnttcc nacctncttn tncttcnatn ctttaanttt ccctctnncc attnctcnaa 720
aatanacctt ctttncagng gcttnnntnt nacatcantt aaataancnc ttntttcctn 780
aaatacatcc naaacatcna accnaacctt atnccctncg ggnctttttc nacacntant 840
tgncacttct ctatatgcga actacanant taaccatttt tggacanatc tcggnngana 900
nttatttcta taatccacac taatnncann tacnt 935

<210> 3462
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3462
nttttgtata ctttnccctt ntctcaggcc tttttgcagg atccctcgat tcgccacgac 60
tcatttgttt cattcacatt cctcacgtgc ntnaacatan ttatatttta agaaaatgta 120
actttgttac atcaaaatat gttgtctagt aaaaagttga tattcagtag aacaaggatc 180
atgtaaataa acatctattt cacatgtacc caaaagcatt taaaaagcag aatccagggc 240
ccagagcatg agccagggag gaggatgttt ttcttctttt ctctattttt ccctaaattg 300
tgcaaacata ggtgagtctc ttaacctttc tgtgcctcag tttttctacc tctaaagggg 360
tgggatggtt cttcaaattg tttctaaaac accggcactt tcagcagtgt tctggtggcc 420
tgagatgaga gcaccgtgtt cagaagtgcc tgggagtggc acagtggaaa ctccgcttgc 480
acggaccatg gagtctgctc aggaccatgc tgtaggacac acagcctcat gcgctgagaa 540
agcaaaggaa gtgctgggtg taaaagttgc atgattccat gaagctttag ttttcctttt 600
tttggtttta aaagaaaggg ttttatatgt tctattgnaa aatatggaaa ttaaacaggg 660
acttcaagaa agccgcacag aaagatcacc ttctgatggn gtgatggtgc tcctgacatt 720
cnggccgang tctgnattct gaaaaaagan 750

<210> 3463
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3463
gcttgnctnc tnccttttca aatngctngg ctactngttc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagagt ggctggataa aaggatgtgt gggaaagaac tgagttgaaa 120
ttaggagtta gaattttatt ctttggtact aaggaatcat tgaagatttt aaaattaggg 180
ctgacataat cagatttgag tttgggaacc tatagtttgg gactggagga agacaggtgc 240
cagacaccag ttaaaaagct gttatttttct aagcagtaga caaaggttta cactgacaat 300
agctgtggag atagagaaaa gctgcgagat ttcagagttt tccaaggtgt aaacaactaa 360
attttgtgat caaaatgata agggccatct aataagctgg ggaatgtggg atctgtcttg 420

gttgagttgg tggattaact ganattaaca gagctggagg aaatgtaaaa agaaaggcag 480
gattgttcat tttgtctttt gtttgtttnt ggggaacagg gtcaaaattt tcattctgcc 540
taangtaggt tttagtcttt ttcaaaacat tctagtaggc aagtctgtag ctgaatcttt 600
ggaagaaagg caaccattag taatattttt tgaagttccc tacctggtta attttttcaa 660
taaaaaactn aggttctcag gttagcnaga atcatggtct taggaagggt ancttgtaag 720
acccaaaatt atnt 734

<210> 3464
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3464
tnnttntcca cttggaaccc cttttnngaa ancccgcagg natcccatcg attcgctctg 60
ggagtagctg ggattacagg catgcaccac catgcctggc taattttnta tactctagta 120
ntagacaggg tttcgcccat gttggtcagg ctggtctcaa actctngacc tcaggtgatt 180
cacccacctn agcttcccaa agtgctggga ttataggcgc gagccaccat ggctcancct 240
catgttcgtt tttaaaactt aggatggtgg ctcttntaca ttgattggca ggaactcttc 300
atattacgag gcacttagct agntgnctgt gaaatanaat actaatgatt gaactttcta 360
ggaagtgcct attctgctaa tagtgnaaat atacacttat ccagggtcag naatactnna 420
gtntacccac ttaaangatc tagacataca tgaacttggg cttacttgcc cgttanaatt 480
gcatatctta naatagtcca tcaccttact taangnagat atgcntngat tatccngatt 540
actcnntaac atagcctctc nccttancgt tctcacctga atgtantacc tggacctctn 600
caagtcnanc agaggccnat aataaaagtt canaagttta nncnnnacac ccctctcccc 660
ccncccanta ncccaanccc ctcccannac ccccctctcc ncccacncct cacctcnnna 720
tccncccacc ccactcnncn nncannncctt ccccccccacc ccccnncnct acncctccnt 780
cccatcncg 789

<210> 3465
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3465
ttncctccnc ttaatccatt ccttnagcct tnntgcagat cccatcgatt cgcttttctg 60
gagggagaca cccatctcct gcccttggac atcaggactt ttngttcttc ggcctttgga 120
ctcaggcttg ccacagangc ctcccagggc tctcggccag tcagcctcag aatgagagtt 180
acaccactgg cttccttggt tcaaccacct tcttacctgg actgagcctc acttacagct 240
tctctaggtc tccagcttgc agacagccta tgggaggact tctcagcctc cataagtgtg 300
tgggccagtt cgcctaataa atcccctctc ctggccgggc gcggtagctc tcccctgtaa 360
tctcagcatt ttgggaggca gaggtaggtg gatcacctga ggtcaggagt tcaagaccag 420
cctggccaac atggtgagac ccccgtctct actaaaagta caaaaagtaa ctgggtgtgg 480
tgctgggtgc ctgtaatccc agctactcng gaggctgaag cangagaata cttcgacctg 540
ggaggtanag gttgcagtga gcccgagatc gagccactgc actccagcct gggtgacagg 600
gcaagactct gtctcaaaca anatnaaaat ccctctccaa aaaaaaanac cnctcccaag 660
tttaacccat tcanntccnt taccaannga ancntctatt nancaaaana tcnnnccncc 720

tnccccncca cccccnngng tcnttaatcc cnanncc 757

<210> 3466
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3466
ntttcttttn ttttccnaac accnagccta cttggttctt tntgccanga tccccattcg 60
attcgtgccc tcaggcagcc aaagcacttt aacccctgca tagggagcag agggcggtac 120
ggcttctgga ttgtttcact gtgattccta ggtttttttcg atgccacgca gtgtgtgctt 180
ttgtgtatgg aagcaagtgt gggatgggtc tttgcctttc tgggtaggga gctgtctaat 240
ccaagtccca ggcttttggc agcttctctg caacccaccg tgggtcctgg ttgggagtgg 300
ggagggtcag gttggggaaa gatggggtag agtgtagatg gcttggttcc agaggtgagg 360
gggccagggc tgctgccatc ctggcctggt ggaggttggg gagctgtagg agagctagtg 420
agtcgagact tanaagaatg gggccacata ncancanagg actgttgtaa gggagggagg 480
ggtanggaca gaagctagac ccaatctcct ttgggatgtg ggcngggang gaaacacgct 540
tgganggtta atttacccac nnaatgtgat antnataggg ganggaagct gctgtgggtt 600
taactcctgg gttgncttgt tgggtagaca gntnggggaa aaaggcccct tgaattcatt 660
gtaagcncaa gtcccaactt ngcccctgac tccctgccng gnggtattng gggaaacttt 720
ttgacncaaa accatcngnt tgctnnctgg acctttttgca ngcccccttta nccccnttnt 780

<210> 3467
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 3467
caacngctct gntctttttg caggatccct cgattcgaat tcggcacgag aagactttgg 60
aaacacacat taaaatattt catgctccga acgccagcgc accaagtagc agcctcagca 120
ctttcaaaga taaaaacaaa aatgatggcc ttaaacctaa gcaggctgac agtgtagagc 180
aagctgttta ttactgtaag aagtgcactt accgagatcc tctttatgaa atagttagga 240
agcacattta cagggaacat tttcagcatg tggcagcacc ttacatagca aaggcaggag 300
aaaaatcact caatggggca gtcccccttag gctcgaatgc ccgagaagag agtagtattc 360
actgcaagcg atgccttttc atgccaaagt cctatgaagc tttggtacag catgtcatcg 420
aagaccatga acgtataggc tatcaggtca ctgccatgat tgggcacaca aatgtagtgg 480
ttccccgatc caaacccttg atgctaattg ctnccaaacc tcaagacaag aagagcatgg 540
gactcccacc aaggatcggt tcccttgctt ctggaaatgt ncggtcttta ccatcacagc 600
agatggtgaa tcgactctca ataccaaaag cctaacttaa attctacagg agtcaacatg 660
gatgtcccag tgttctgtat aaaatgcaaa ataaatggtt tttattaacc anacaaanaa 720
aaaaaaaaac ntcgagccct n 741

<210> 3468
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 3468
caacngctct gntctttttg caggatccct cgattcgaat tcggcacgag aagactttgg 60
aaacacacat taaaatattt catgctccga acgccagcgc accaagtagc agcctcagca 120
ctttcaaaga taaaaacaaa aatgatggcc ttaaacctaa gcaggctgac agtgtagagc 180
aagctgttta ttactgtaag aagtgcactt accgagatcc tctttatgaa atagttagga 240
agcacattta cagggaacat tttcagcatg tggcagcacc ttacatagca aaggcaggag 300
aaaaatcact caatggggca gtcccccttag gctcgaatgc ccgagaagag agtagtattc 360
actgcaagcg atgccttttc atgccaaagt cctatgaagc tttggtacag catgtcatcg 420
aagaccatga acgtataggc tatcaggtca ctgccatgat tgggcacaca aatgtagtgg 480
ttccccgatc caaacccttg atgctaattg ctnccaaacc tcaagacaag aagagcatgg 540
gactcccacc aaggatcggt tcccttgctt ctggaaatgt ncggtcttta ccatcacagc 600
agatggtgaa tcgactctca ataccaaaag cctaacttaa attctacagg agtcaacatg 660
gatgtcccag tgttctgtat aaaatgcaaa ataaatggtt tttattaacc anacaaanaa 720
aaaaaaaaac ntcgagccct n 741

<210> 3469
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 3469
ggaactggct caggctggat tactcttgct gctgtcttgc tgtactgtat gccactggga 60
tctgaacact aaacattgct aagaaaccca cccaccacca ggatatttgg aagtaacttc 120
acatatggaa aagttaaaga ctcagtctct gagaaaacaa ttggactgat gcgaatgcag 180
ttttggaaaa aaactgtgga agatatatac tgtgacaatc caccacatca gcctgtggcc 240
attgaactat ggaaggctgt taaaagacat aatctgacta aaagatggct tatgaaaatc 300
gtcgatgana gagaaaaaaa tctggatgac aaagcatatc gtaatatcan ggaactggaa 360
aattatgctg aaaacacaca gagctctctt ctttacttaa cactagaaat attgggtata 420
aaggatcttt catgccacat catgcttgca cgtcattatt gnaanaagcc ccnaangcat 480
ttgtccacct gcntngaagc gncaacaccc ntnttccttg gggaagcctt tnnncaaaaa 540
ggcngttccc ntttctccat ggnnnttntt ntcncnntgg cctnccnttn ggccgatttn 600
cactnacnna angnaccttc nnctttctcg nnatggatat cccaangngc ttttnnaccn 660
nctcgnaccc acnanctggn taantctnac atctgcaccc nttctggccn ccntcttcct 720
cggntcacct anctccggan ccaccnatct cnctncccat tggtctctcg aggnttcnct 780
ctnttnnctc tctcacatna tntantntng cnncncccтt ntncgttnta aatanntcca 840
tntcntctcn cccngnntat 860

<210> 3470
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 3470
tgttttgttt ttgaaccctt tttggnantc ccgcaggatc cccatcgatt cgaattcngc 60
acggagaaga ctttgggaaa cacacattaa aatattctca tgcttttnaa cgccagcgca 120
ccaagtagca gnctcagcac tttcaaagat aaaaacaaaa atgatggcct taaacctaag 180
caggctgaca gtgtanagca agctgtttat tactgtaaga agtgcactta ccgagatcct 240
ctttatgaaa tagttangna gcacatttac agggaacntt ttcancatnt gncantactn 300
ttncatanta caggcnggnn aannnatcac tcaatggggc ntgttnncnn tangctctct 360
atnttcntcn cnntanncnc tgccancnnn cttnnnnatn nctnnnnnnt ntcnctnncc 420
cccttaattc ccgntnnant ngcanntnct cnnanctanc natcnanatg nactcatatn 480
tttcacncnc cctgccntat tcatcaacan nnnngntanc gcatttnnct cactctatnt 540
ctctctnntn ncnnntttnt ntntcgatat ctcttnnacn cactacntnc ctctctnact 600
ctcanantac tcttntctct ctactcttca nacngtnntn aancctctct atctatcnca 660
cntnnnatat acancacnct ctctactanc acacntctcn catcagactc tcntctantc 720
acanacgatc ctncnctcta ctnttaccga ngnagtcncc ntctccnntt acttnaatnc 780
cacnnnntca ctnnccnatc cnnctatntc gcatnnatnc actcactcnt tcnatnctta 840
tntntncncc ntctctctnt ntccnantga ngatacatat gtccanactc nancnttccn 900
atcnnctcnc tgctnttntn cactntctcn tntcaccntc tannacatcn tctctntcnn 960
acgttanata caatacgctn tntacctctc tattnttntc tgacacanat ctcctcctca 1020
ccactcactc tgntcacgta tctgcgaaca ctacncantc cgtctcacct ntnanatcgn 1080
ctctacantc tctnactact actctctcac tcntctctct acanctntca catctctctc 1140
tacctctcca cgctntatac atatacctcc tncactcctc tnanngtnnt t 1191

<210> 3471
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3471
ttacctttag ctcccgntct ttttgcagga cccatcgatt cgaattcggc acgagggcta 60
acttgccttg ttttactatt gatgtttgtg tcctgtgtcc ttaacacttt aagcagctgt 120
tctcacctaa aggctaatag ttttaagtaa gtttcttttt ctttttttaa tttaaaaatt 180
aaaaaatttt taattaactt tttttaaatt aaaaaaaatt attaattatt tttaatagac 240
aggatcttgc tatgctgtcc aggctggtct tgaactcctg gtctcaagtg atcctcctgc 300
cttggcctcc caaagtgctg gtattacagg tgtgagtcac tgcacctggc caagtttatt 360
ttttctgtat acatttcttc agccacttca atcaaacatt taattaacat gctataatga 420
atgacttttc ttactaggct aacaaatgag gcacttggaa acttacttta gttacagcct 480
cactttcttt ttttgngagg aaattctgtg ttgacatact ctttaatttc tttttacctt 540
ttctgactga ttttctgtaa tttgggaata ttgngatgac tgcttattct aataatatta 600
acatatagca ttcttttagc acataaatag tttcatttgc atagtaagcg ccaggctttn 660
ccatcgaatt ttgatnaaaa taatccatgc ttcatggtac cttagagatg ggatatttta 720
aggcctctan aactan 736

<210> 3472
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3472
nttttgtata ctttnccctt ntctcaggcc tttttgcagg atccctcgat tcgccacgac 60
tcatttgttt cattcacatt cctcacgtgc ntnaacatan ttatatttta agaaaatgta 120
actttgttac atcaaaatat gttgtctagt aaaaagttga tattcagtag aacaaggatc 180
atgtaaataa acatctattt cacatgtacc caaaagcatt taaaaagcag aatccagggc 240
ccagagcatg agccagggag gaggatgttt ttcttctttt ctctattttt ccctaaattg 300
tgcaaacata ggtgagtctc ttaacctttc tgtgcctcag tttttctacc tctaaagggg 360
tgggatggtt cttcaaattg tttctaaaac accggcactt tcagcagtgt tctggtggcc 420
tgagatgaga gcaccgtgtt cagaagtgcc tgggagtggc acagtggaaa ctccgcttgc 480
acggaccatg gagtctgctc aggaccatgc tgtaggacac acagcctcat gcgctgagaa 540
agcaaaggaa gtgctgggtg taaaagttgc atgattccat gaagctttag ttttcctttt 600
tttggtttta aaagaaaggg ttttatatgt tctattgnaa aatatggaaa ttaaacaggg 660
acttcaagaa agccgcacag aaagatcacc ttctgatggn gtgatggtgc tcctgacatt 720
cnggccgang tctgnattct gaaaaaagan 750

<210> 3473
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 3473
tcttttcnan anctcnngcc ttctgcaggn atcccatcga ttcgccacga ctcatttgtt 60
tcattcacat tcctcacgtg caacaacata attatatttt aagaaaatgt aactttgtta 120
catcaaaata tgttgtctag taaaaagttg atattcagta gaacaaggat catgtaaata 180
aacatctatt tcacatgtac ccaaaagcat ttaaaaagca gaatccaggg cccagagcat 240
gagccaggga ggaggatgtt tttcttcttt tctctatttt tccctaaatt gtgcaaacat 300
angtgagtct cttaaccttt ctgngcctca gtttttctac ctctaaaggg gtgggatggn 360
tcttcaaant gnttctaaaa caccggcact ttcagcagtg ttcnggtggc ctgagatgag 420
agcccgtgtt cagaagtgcc tgggagtggc ccactgggaa actccgcttg cacngaccnt 480
ggagtctgct cangacctgc tgtnggacca cacancctna tgcgctgnga aagcanaagg 540
aantgctggg ngtaaaagtt tgncattgat ttccttngan gccttttnaa nncctcccnc 600
ttctttttttg nntttaaaaa aanaaaaagg ggtntnttat cantggntcc nnntttcggn 660
aaaaaantnt tgggcaaaac ttttnaaacc naggggggnc cttntccacg caaaaagccc 720
cgcacccagg nnaacngnaa tttccccctt tnccnggnat gggctcngtc ggaaatgcng 780
ccttncctcn ggaaccantt ctcgggcccc naannggtnn nnggccnatt tcncctggna 840
aaaaann 847

<210> 3474
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 3474
tcttttcnan anctcnngcc ttctgcaggn atcccatcga ttcgccacga ctcatttgtt 60
tcattcacat tcctcacgtg caacaacata attatatttt aagaaaatgt aactttgtta 120
catcaaaata tgttgtctag taaaaagttg atattcagta gaacaaggat catgtaaata 180

aacatctatt tcacatgtac ccaaaagcat ttaaaaagca gaatccaggg cccagagcat 240
gagccaggga ggaggatgtt tttcttcttt tctctatttt tccctaaatt gtgcaaacat 300
angtgagtct cttaaccttt ctgngcctca gtttttctac ctctaaaggg gtgggatggn 360
tcttcaaant gnttctaaaa caccggcact ttcagcagtg ttcnggtggc ctgagatgag 420
agcccgtgtt cagaagtgcc tgggagtggc ccactgggaa actccgcttg cacngaccnt 480
ggagtctgct cangacctgc tgtnggacca cacancctna tgcgctgnga aagcanaagg 540
aantgctggg ngtaaaagtt tgncattgat ttccttngan gccttttnaa nncctcccnc 600
ttctttttttg nntttaaaaa aanaaaaagg ggtntnttat cantggntcc nnntttcggn 660
aaaaaantnt tgggcaaaac ttttnaaacc naggggggnc cttntccacg caaaaagccc 720
cgcacccagg nnaacngnaa tttccccctt tnccnggnat gggctcngtc ggaaatgcng 780
ccttncctcn ggaaccantt ctcgggcccc naannggtnn nnggccnatt tcncctggna 840
aaaaann 847

<210> 3475
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

<400> 3475
gttacgctac tggtgttcaa ttattagttt gtaccatttt taatttatgt cagttgatgc 60
atctgaaaat aagtgcttgg agtgttcgta cccttatttt ttttaagatt cctagaagga 120
atcttnggtt aattcagatt gagcanttaa agtttttgct atttaccttt gtgcaggctg 180
gcatatgcta atttgggggt ggtaaccaac cgattttatc tcatgtaagc attacatttt 240
gaagactgaa tatacttcac agcagatcaa acacatttat ggcatgcact gacctcttct 300
tggagcccag aactttatag agttgcctac cagggtttac tgtnatggaa tttatgatct 360
taagaaatta ctagttgcat tatttatccc tatgattcat tcattcaatn aagcntttac 420
tgcataaact ttacatccng cactgtagct taagtncccc aaaaattgaa tngnanntaa 480
ttgngctntt cganaattgc ccaacgcnnn gcccaggcca ccggtggntt naccgcctgt 540
nggtccccag cnttnctcgg ggaangcccn agccntnccg ganccccnag ttcnnnaaaa 600
tccagaccnt ccctggntaa cnnccgtcaa aaccccggtc tnttantaaa aatncanaag 660
atttancntn ggccttggtn ggcncccccc cncn 694

<210> 3476
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3476
tcttttnttn ccttttcgnt cntgttcttt ttgcaggatc ccatcgattc gttcaccatc 60
tatgtcctct ggacgctggt ctccttccgc taccactgcc agctgtactc cgagtggaga 120
aagaccaacc agaaagttcg cctgaagatc cgggaggcgg acagccccga gggcccccag 180
cattctccac tggcagctgg actcctgaag aaggtggcag aggagacacc agtatgaatg 240
ctgggctctc cggaccctgc agcagagagg ccagaggtag ctggtgatac cctgtcctgt 300
ggaaggactt ccacttcaac acttccactt caacagttcc cgcacggcct gaacgcttct 360
taggccaaga gacaccatgc ggagcctagt ctgtgatcct gtgtgaagat attttcaggg 420
ttttttttttt tttttgcata tggaggacag gtggacatgg tcctgagctc tggacggagc 480

angcaccctg atctcattct gaggtccaca tggcaccttc tgggccagca gctgtggccc 540
ngtgtatcaa agggcgcccc ttaaagctgg aacattccac aagcttcttg cgcttttntg 600
cacccngcag gcccactttc ctggcaccct cgantttata taaaaagttg ccctgcgttt 660
naaaaaaccc acccccctgaa tgaattaaaa nggagcccct ggcttggaaa aaanaaaaac 720
atctnncnct nnntatcncn naaaananaa ccnnnggcct 760

<210> 3477
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3477
tnctattttn tttccaancc tttgctactt gtctntttgc aggacccatc gattcgctgg 60
aaacctttac cagaaagtga cgggcaagga ctgagatacg agggcctgat gggcaaaccc 120
agcatcctca cttaccagta tgccgaggac ctgatcaggc gacaggcgga gaggcggggc 180
tgggccgccc ccatccggaa gctctatgct gtgggtgata accctatgtc tgacgtatac 240
ggcgccaacc tgttccacca gtacctgcag aaggcaacgc atgatggggc gccagaacta 300
ggggccgggg gcacacggca gcaacagccc tcagcaagcc agagctgcat ctccatcctg 360
gtgtgtacag gcgtctacaa tcccaggaac ccacagtcca cggagcctgt ccttggagga 420
ngggagcctc cattccacgg ncaccgagac ttatgcttca ntagggactt tgaaatgggg 480
gaggcagtgt ggaatactgt ggatgtctgt gcagagcctt tgccggcact gaaggcatgc 540
agcctgtcgg cagagtgtct taacacccag atgcctactt tttactgnat ngtagtttat 600
tgcccggaga tgttggggct ttttttttta aataaaataa tcataattaa atgttcatga 660
aaananaaac atnttcnaaa aaacttcnag cctctngaac tntantngag tccttatnac 720
ctncatncca gancttgnta aggattccat tgatgaagtt tn 762

<210> 3478
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 3478
tgttttgttt ttgaaccctt tttggnantc ccgcaggatc cccatcgatt cgaattcngc 60
acggagaaga ctttgggaaa cacacattaa aatattctca tgcttttnaa cgccagcgca 120
ccaagtagca gnctcagcac tttcaaagat aaaaacaaaa atgatggcct taaacctaag 180
caggctgaca gtgtanagca agctgtttat tactgtaaga agtgcactta ccgagatcct 240
ctttatgaaa tagttangna gcacatttac agggaacntt ttcancatnt gncantactn 300
ttncatanta caggcnggnn aannnatcac tcaatggggc ntgttnncnn tangctctct 360
atnttcntcn cnntanncnc tgccancnnn cttnnnnnatn nctnnnnnnt ntcnctnncc 420
cccttaattc ccgntnnant ngcanntnct cnnanctanc natcnanatg nactcatatn 480
tttcacncnc cctgccntat tcatcaacan nnnngntanc gcatttnnct cactctatnt 540
ctctctnntn ncnnntttnt ntntcgatat ctcttnnacn cactacntnc ctctctnact 600
ctcanantac tcttntctct ctactcttca nacngtnntn aancctctct atctatcnca 660
cntnnnatat acancacnct ctctactanc acacntctcn catcagactc tcntctantc 720
acanacgatc ctncnctcta ctnttaccga ngnagtcncc ntctccnntt acttnaatnc 780
cacnnnntca ctnnccnatc cnnctatntc gcatnnatnc actcactcnt tcnatnctta 840

tntntncncc ntctctctnt ntccnantga ngatacatat gtccanactc nancnttccn 900
atcnnctcnc tgctnttntn cactntctcn tntcaccntc tannacatcn tctctntcnn 960
acgttanata caatacgctn tntacctctc tattnttntc tgacacanat ctcctcctca 1020
ccactcactc tgntcacgta tctgcgaaca ctacncantc cgtctcacct ntnanatcgn 1080
ctctacantc tctnactact actctctcac tcntctctct acanctntca catctctctc 1140
tacctctcca cgctntatac atatacctcc tncactcctc tnanngtnnt t 1191

<210> 3479
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3479
gnntttannc nnttgaaanc cnctngctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gaggcctgcc agaatggaag catacagatc tgggaccgaa atttgactgt 120
tcatcctaag ttccactata aacaggctca tgactcgggc acagacactt tttgcgtgac 180
ttntttccta tgatggtaaa tgtnccttgc ctctcntgna ngtgacgatt cattaaantt 240
atgggacatc cgacaattta ataaaccact tttttcagcc tcgggtcttn ccaccatgtt 300
cccaatgact gactgctgtt tcagtccana tgataagctc atagtcactg gtcatctatt 360
caaagaggat gtggcacngc aaacttgttt tctttgagcg tangactttc caaagggtgt 420
atgaaataga catcacagat gcnantgttg ttcgctgcct gtggcatcca aagctgacca 480
gatcatggtt ggaactggaa atggattggc taaagtctat tacgtccccn acaagagtca 540
gangggagca anattatgtg tgggtaaaac ccaacggaag gcaaacaagc tgagactcta 600
ctcaggacta catcataccc ctcatgcctt gcctatgttc gtgagccngc cacggagtac 660
aaggaacagc tggagaaagg canactggat ccctgaatcg cataaacctg aacttctgta 720
ccaggcccag ggcntggtgg ccanttggaa cccacg 756

<210> 3480
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 3480
tacagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga ggaaaacatc 60
taactaagat ggtttcactg gtgaattcaa tcaaatattt aaggaacaca taataccaaa 120
accataacac atncaaatnt atggcccttc agattttgtn cttcttttng ggtcagtgtt 180
aataatacgt atctttcaaa gaatatcccc ctttttttt ggtagagata ggggttttgc 240
catgttgttg gtagcaagcc ctaaccctgt cataaacagg ccttaaataa actggccata 300
aacaggattt ctgcagcaat gggacatgct catgatggct gtcatgcaca ctgcgaaaag 360
ttgttggttt actggagcag ggcaaggaac acctggcccc gcccggagca aaaaactgtc 420
aaaccacaaa cgatagcagg aaaggcctgt gccttggcag catgtttttg ctgcagataa 480
tcagccagag cctgtttctc tgctcctcgc tgagattgct ttgtttccca taaagattgc 540
ttttagctaa tctacaatct atagaacaat gcttatcact gctttctgtc aataaatgtg 600
tgggtcaagc tctgnttgtg gctctcagct ctgaaaaaaa aaaaaaaaaa aaaaactcga 660
gcctntaaac tntgngagtc gnttacctan atccagacnt gataggatcc atgatgagtt 720
tggncaaccc ncactng 737

<210> 3481
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3481
tttgaaancc cttagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
gattcgaaca tatgcagtta ttccactaaa tgatgaatgt gggattattg aatgggtgaa 120
caacactgct ggnttganac cctantctgg ccnaactatt ttaagaaaan gggngtggtt 180
tttgaacagg aaaagaacct tcgcccggtg gtatgcctcc aaangcagca actttatctg 240
gaaaactcaa angtattccg agaatttctt ctgnccaggc atcctcctat ttttcatgan 300
tggtttctga gaacattccc tgatcctaca tcatggtcag tagtagatca gcttactgcc 360
gttccactgc agtaatgtca atggttggtt atattctggg gcttggagac cgtcatggtg 420
aaaatattct ctttgattct ttgactggtg aatgcgtaca tgtagatttc aattgncttt 480
tcaataaggg agaaaccttt gaaagttcca gaaattgngc catttcgcct gactcataat 540
atgggtaatg gaatgggtcc tatgggaaca ganggtcttt ttcgaaaaca tgtgaaagta 600
caatgangct gatgcctgat cancgagagc ctttaatgag tgncttaaag acttttctca 660
tgaacccntt ggggaatggg gtaaaccatg naangggcnt tccaaacgcc ccttgaatga 720
aacctggaaa aattgncaat gaaaaggcca aanccnttnt 760

<210> 3482
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3482
tatnnataca agctacttgt tctttttgca ggatcccatc gattcgcaca gttctgcatg 60
gctggggagg cctcacaatc atggtggaag gcaaggaggt gcaaaaccat gtcttcacat 120
atgggcaagg caggaaaaac cntgtccagg ggaacctcca nttattaaac cnntcaaact 180
tcattgaaga attaatcact taccacgaga accagattgg gggaaccatt cccatgaatc 240
aattattctg cacctggccc caaccttgac acgtgggaat tattcaatgc cagggtgaga 300
ttgggtgggg acccatccaa ctatgtcaag tatgttttga cttctggctt gattgctang 360
tttgcataga ngacaaacat ggaaattaat gaagtacctt aatatctggc ttcagatctt 420
agacaggatc aganggccag ctcaaatttg caaggagggg aggtagatcc caccatttta 480
tgggctatgg caaaatcaaa cagaaattat gtgggatggg agatctgatg cangcatctt 540
tggaaacatc tacttagcta attttatgct aggctttagg tcaagaagga gagaaaaagc 600
tgcatgctgt ggtacacact tattgtccca ncgacttggn aaactnangc aggangattg 660
cttgatccca agaatttgan gtaatgtgcc aagaaccgtc ttgngaatag ccctacccct 720
gaactcaact tgggcaacat tganaaaccc tn 752

<210> 3483
<211> 783
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3483
gnnnnnttnn nnnttttaan cctttagcta cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgagaggcgt ccttgcggaa agggcatttt agctgaggct ttggagtacg 120
aataggagct cagcaggcag acgaaatgaa ggaantaaag gtcagaagaa aggtcagaag 180
cttgagtgac gttttggaaa tccaccccgt tttatttggt agaacttggg ggttcaaaag 240
ggccaggtgc ctcagaattt gaggcccaca cagtgaggtc tggtggggtt gaaagggacc 300
caggaaccga ggcgttcagg aaagcaggtt gtcagagcta tgtggagtct gtgggtggca 360
ngggcaaccg ctccagcctt tgaagacttt gaaagccaga gattcctgcg cangcttgga 420
cttcctggga gctcctccaa gtacccaagg gcatcagagc tgcctgggtg ttacatggcc 480
caaggaaccc aggttcangg taggacaggc aagaccagat cccaatgtgc aaagtgaaaa 540
cactgggctc ctgttaaacg atgaagaatt caagacagtg acagcattac gtcacccctg 600
gggacaaang tcaacctaag gtgacacacg gggactactg tgctttcgga ngctncctgt 660
gtcctggagg anaaaagctt tanagggggc aactggacaa cttccacttg caaaattcca 720
accttgcttg ggcaaggncc cngnctggga ctnaacattt ttgatatgcc ttaaaaatta 780
ttt 783

<210> 3484
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 3484
tacangctct tgttcttttt gcaggatccc atcgattcga attcggcacg agggaaccat 60
gagaaccgaa gctagaattg ctattgaatt actttatttt ctcttcctta ttgggtagag 120
atacatcatt actggcctca ggggtttacc caaagaaagg gtatttttga gcaaataatg 180
tgatttcctg gctattttgt tgggggctta agatttttt ttttcaaatg catttttagt 240
cactaaaaat taactgtcgt accatctaga actatactgt ccagtaccat agcctctagc 300
cgtatgtagc tatttgtatt aagattaatt gaaattttaa atccagttcc tcagtcacac 360
tagccacttt ctaagtgctc agtagctctg tgtgaccagc ggctactgta ttggatatta 420
tagaaggttc tttcattcaa gatcatcatt cttgacagac ccataaatat ttcctataaa 480
gactgtagaa gtgtgttctg gagggtttgc tctccaaaaa gaattgtaat atagagtaga 540
attgggatag agtattgaag acactgggtt tagacattgg atattttaat gattgggngg 600
tctaatcatg tgctgcaact gagttatcta gngatatgac ctcctgcttg ccaaagccng 660
aattnaagca ggattcctga atctatctta aaattgcaat gaaaaccttt tccctaaaat 720
atccctttg taa 733

<210> 3485
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 3485

gnnnnnnnnt ttnngnntna tgaaaacccc tttaatgaaa ccctttttga anccttatga 60
ancccttngc tgcaggatcc catcgattcg gcagcgcacc aggtggtttt aggagaaaac 120
ttgatagcca cagccctttg tctttctggc agtgggtctc agtctgattt gaaggatgtg 180
ggccagcaca gcaggagagg agggggacac aagccttcgg gaagagcctc catccagtca 240
ctcggctctt taaggcaggg tgccatacta agcagcttgc ctccaggaat tgctctgaag 300
agaaatcccc acaaacctcc atcctaaagg aaggtaacag gggacacaag cttggatttc 360
cgacctgtag tgtctccagc aaatggggtt gaaggagtcc cgagtggatc aggatgatga 420
tcaagatagc tcttcctgaa gctttctcag aacattgctg tcagactgac tttaagacag 480
ctgattcaga ggtaaacaca gatcaagata ttgaaaagaa tttggataaa atgatgacag 540
agagaaccct gttgaaagag cgttaccagg angtcctgga caaacagang caagtgggag 600
aatcagcttc caagtgcaat taaagcactt cagcaaagga gagaaganga aatgaagaat 660
cccaggagat attaaaggct atcaggatgt gacaattaaa ccgggaagaa acaaagaaga 720
agattgagaa agagaanaag gagtttttgc aaaagganca ggactgaaag ctgaaatgaa 780
aaacttttg aaaaggccaa aggtan 806

<210> 3486
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 3486
gnntttnann nnnnttttat nnatacaagc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgaggcat aacgaaccta accctcagag gtttaccaag attcaaaaca 120
cgaaactgac catgaaaccg ggacgggcat ttgggtcaag tgcgggtncc agtctttggg 180
aaggtggtct tcgggcaacc cacttctttc aaccaatttt cacaagtggg aacaattggg 240
gcgggccttc cgtcgtgggc ccccttcggg ggcttgacac taatgggaca gaagctctcg 300
gtgcccgaaa gattgcctgc caganggact tgaccacagc ctggctggca actgctctgt 360
ggaggacctc caggactgag actgggctct ggtttccaag ggtcttcact aggcccccta 420
ctacacctgg aagtttcaga acccactttg gggggcctcc tgcctgggca ggctcttcaa 480
gtgtggccct ctttggagtc aaccctnctt tccgaccccc ttcccctagc ccagccccag 540
tcactgtcan ggtcgggcca acccctgcac tgccttgcan antggcctgg gctaggtcac 600
ttcacctntc tggcctaatt tnccccccttg agtccctaag gcctggaagg tgggaagtat 660
gtctangggg caatgtcttt ttcangggga attctaactn ttgggaaccc ccttgttcca 720
agggaagggn aacctttttc attcaacatt gtaggggcna agctttgtgc gccccctgtt 780
aggancaaac cn 792

<210> 3487
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3487
tcccttggnn nnnnnnnnnn tttnannata nagctcttgt tctttttgca ggacccatcg 60
attcgaattc ggcacgagga aaacatctaa ctaagatggt ttcactggtg aattcaatca 120
aatatttaag gaacacataa taccaaaacc ataacacata caaatatatg gcccttcaga 180
ttttgtactt ctttttgtgt cagtgttaat aatacgtatc tttcaaagaa tatccccctt 240

tttttttggt agagataggg ttttgccatg ttgttggtag caagccctaa ccctgtcata 300
aacaggcctt aaataaactg gccataaaca ggatttctgc agcaatggga catgctcatg 360
atggctgtca tgcacactgc gaaaagttgt tggtttactg gagcagggca aggaacacct 420
ggccccgccc ggagcaaaaa actgctcaaa ccacaaacga tagcaggaaa ggcctgtgcc 480
ttggcagcat gtttttgctg cagataatca gccagagcct gtttctctgc tcctcgctga 540
gattgctttg tttcccataa agattgcttt tagctaatct acaatctata gaagcaatgc 600
ttatcactgg ctttctgtca ataaatgtgt gggtcaagct ctgtttgtng gctctcagct 660
ctgaaaaaaa aaaaaaaann nnnnnnnncc tcgagcctnt aaaactatag ngagtcgtnt 720
tacgtanatc cagacatgat aaganccatt ggtgagtttg 760

<210> 3488
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3488
gnnntntnnn nnntntnatn gcctnaagct acttgttctt tttgcaggga tcccatcgat 60
tcgaattcgg cacgaggtcc aggcttcctt ctgatggcca acccaccttt aatgctggcc 120
agtctatctc acacaaagtt ctaagttttc caggtgtcat agtaactcca tagtctcctt 180
aaatcccttt ttgaaatttt tcaacatagt tcctagtggg atgggcttac tttgtgcctg 240
acccatgttt tctcaagaca aaacaccatg gcaggaacag ccacttgcat ctggtcccgg 300
tgccacactg cggtgcttgg tgtggttgtg gagcctgtcc ctgcgcgcct tgctcccgtt 360
gagccacgct gtctggtggg tgattctctg cctgagccac caccctggac tggccagtct 420
ccagagctgg cacaccctgc tgttttctct ttttagacac aacagccgca gtttggcagc 480
cactaagtcc caccagctga ggtccgagga aagcggggtg actcatttcc cttgtcaggg 540
cccgaggaga gtgaggtgtc cagcctgcaa agctattcca gctncttggt gttggttgca 600
ataaattggt atttaacaaa caaaaaaaaa aaannnaaaa aaaaaaaact cgacctntaa 660
actatagtga gtcgattact anatccagac atgataagat ncatgatgat ttggacaacc 720
cacttgaatg ccntgaaaaa atgtttnttt nn 752

<210> 3489
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3489
cgtnttttnn nnccnannga aagcccttgg ctacttgntc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggat cagcccacct cggcctcaca aagtgntggg attacaggcg 120
tgagccacct tgcccaccca catcatacag ttgaaatgaa actttgccac aaccagcctt 180
tgctgtacac acacatatat cactgaacct ggttgaaata aagnttttt tctttttcct 240
ctggtattct gggttctgaa gtctggtatt ctggtattct gggttcaaaa gtatgacttg 300
agagtgttgc tctggtattc tgagagttgc tctgtattct gggttctgaa gattatttga 360
aaaataactc ctactacatt gaaatgcaga cttaaaaatt taaacattgg attaggcagt 420
caaaaaaacc aagcaagcat aaaaggtcaa taagttgtaa tcttgatagt aaaggtggaa 480
aacttattat aaatggaaag aaagtttatt tccttttttg gttgatgggc agtatgccat 540
attataccca aagttctttt aaaaaatatt tccatcacca tttttattta aaataaacat 600

ttgagggaag taccaaggca gctttttttcc tcaaaagtac ctggtcctct ttgggaatag 660
cacattttan gggcattggg taatcctgag attttactca ntaaatcctg atggtactgg 720
gtgtaaaata tctttagtng gattgaaggc cttgnggggg a 761

<210> 3490
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3490
gnnnnnnnnn nnnnnnnttt gaaannncctt tnttnnnnnn ngnnttttann cnnttgaana 60
cnanagctac ttgttctttt tgcagatccc atcgattcga attcggcacg aggcaaggcg 120
ccgggggaca cgttggctgc gttttcggcg ggcttccggg tcaaaaatgg ctggggcttg 180
cgaattctnc tgggctactn cgtaggcana anggccantt tgggccccga agttctgggn 240
gtcgaaattc ggccggacgg gaagcttang atatccacca ccacaaattc caaaaatgat 300
gtgatgatca gaaaaagaag cttatgtgcc caagaatgta atgggaaaga actgaagaga 360
attattgatg acagtgaaat tacaaaagaa gatgatgctt tgtggcctcc cctgataggg 420
gttggcccga caggagcttg aaattgtaat tggagatgag cacatatctt ttaccacatc 480
aaaaataggt tctcttattg atgtaaatca gtcaaaggat cctgaagcct tcgagtattt 540
tactatttgg tcaagacttg aaatgtttag ttttcaatct tattggatta cacttcaaga 600
ttaaaccaat ttaaattgna tgttttcang ctggttgnat atttaattaa gggatgggaa 660
gggttatttg gcatttacag tattggggtt tttatgaatg tgaagcaaac aaaaaaaatt 720
tgtatgtaaa ctggaaatta ggaaaatccn ttaccaagct taatgggtat ccttacttga 780
gtccacatgg gttggcagtc cccan 805

<210> 3491
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3491
gnntttaaan ccnttttttnt nnnanacagg ctacttgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggcc tgggaaagcg tggcgcccat gaatatccgc aggagcacgc 120
atgacctggt gggccatgga cgggatgggt tgtaccccgt gggggggtaaa cgaacgggta 180
gcttncaacc ttcaacttcc attcgangaa agtacaaacc ccganggganc aacaaagtgg 240
ggtgggccgc attcctggca ttgtttcaac ccgggcgcaa gcaagtgtgg ggttgtgggc 300
gggtgcttgg aagctgcttc aatttccccg nccgncatcc ttcccgacg cttgtcccgt 360
ggccctccac caagcctctt gacccaccta ccaccagaag ccttgcagcc ttccacatgc 420
cttaaggggg accgtggccc ccaccagggg acgtcctgcg ccatccgttc acgtctcttg 480
catcattcct tcatgtcttt atttagttgn ttatttattt aagttattta tcttattgag 540
aggtgaggag tgccacggct gcccgtttac acctttagcg tctggtcctn ctgcgtgtcc 600
tcccttcact ggctgcatgg ggggcccggg gagtgacaag cnggggcctt accggcccaa 660
ggcccgttgc ctgctnaaac cttgcangct gtggagcaag aggcctgggt ctttcnaaca 720
ctgcagaccc acttgaattt gcacatgcgg ggtcccggga aggtggggaa caagtgtcct 780
tctgtcgtcn nnttgccgng tgcca 805

<210> 3492
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 3492
ggctactngn nngtntttgn angcnntttt nantatacag ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgaggna atgacattca tgccagttct tccctgaatg 120
gcagaagcac tgaagaagta aagcccattg gtgaaaacct ggggccaaac tgggaaatct 180
gntggttgnc ttcccccang ntttaaagga gatcaatgtn gaaanggtan cnggattcaa 240
catttggnca agccgattca agaacagtga aagttattgn ggatcttatg ggaccaattt 300
gggccaagaa gaagtctttt agacagcttt acgtccaaca atgggaccca tttcaagtat 360
tacttgggtg ggcattccag tcaacccatg gaaaattctg gatttcgtga agatattcaa 420
gtacctcctg gaaatggcaa cattgggaat atgcaggtgg ttgcagttga aggaaaaggt 480
gaagtcaagc atggaggaga agatggcagg aataacagcg gagcaccaca ccgggagaac 540
caggcggaga aactgacgaa ttctctaatg ttagaagang aaagangaca taggatgcaa 600
cactttgagc gaaggaacca aggcccggca ggtgggaant ggangtgatn gggancccct 660
gggcttcgac cagaaggtcc cgangcagcc tcaatgacca natcgcctcg tgctgatgaa 720
actgcaggag gacatgcnna atgtccttta aagactgcag aaactggnaa ccctactgnt 780
tttcaggcna aaaaa 795

<210> 3493
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3493
gcttgnctnc tnccttttca aatngctngg ctactngttc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagagt ggctggataa aaggatgtgt gggaaagaac tgagttgaaa 120
ttaggagtta gaattttatt ctttggtact aaggaatcat tgaagatttt aaaattaggg 180
ctgacataat cagatttgag tttgggaacc tatagtttgg gactggagga agacaggtgc 240
cagacaccag ttaaaaagct gttattttct aagcagtaga caaaggttta cactgacaat 300
agctgtggag atagagaaaa gctgcgagat ttcagagttt tccaaggtgt aaacaactaa 360
attttgtgat caaaatgata agggccatct aataagctgg ggaatgtggg atctgtcttg 420
gttgagttgg tggattaact ganattaaca gagctggagg aaatgtaaaa agaaaggcag 480
gattgttcat tttgtctttt gtttgtttnt ggggaacagg gtcaaaattt tcattctgcc 540
taangtaggt tttagtcttt ttcaaaacat tctagtaggc aagtctgtag ctgaatcttt 600
ggaagaaagg caaccattag taatattttt tgaagttccc tacctggtta attttttcaa 660
taaaaaactn aggttctcag gttagcnaga atcatggtct taggaagggt ancttgtaag 720
acccaaaatt atnt 734

<210> 3494
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3494
gnnnttnann nnnnttttan nnnatacagg ctacttgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgagcac catcgaatat ttttatttat tttgagagac agactctgtc 120
acccaggcta gtcttaaact gttgggtgaa tcttaagtga ttctcccacc tcagcctccc 180
aaagtgctgg ggattacagg gcatgagcca ctacccttgg ctgtgatcaa gtattttagt 240
ctgttggtta aatgtttact aaatagtctg aagtagagaa aatagcaccc aatctaaaat 300
aaggtgaggt ctagtcactt atttaaatct acattttaag ctatagttta ctattagttt 360
aaactttaag acaggtaatg ttcatgctgc agacaatcta agggcattat taaaatgttt 420
gttcttcctt atctcagaat tgaagtatgt cagaagcaag acttttcttt ccattttgtt 480
atagtagaaa tgcatacatt aacaggtacg ttttagacat tacacgtgct catctgccca 540
aaagctctaa tgagctgcct taccctggaa tgtttttctt agcttggatt tgctttttg 600
gagggattaa gaaaagactt ggctgggcgt tgggactcat gcctgtaatc cacantttgg 660
gaaccnagcg gtggatcatg angtcaggag atggagacca tccggctaat acggngaacc 720
cccgttttta ctgaaaatcc aaaaattact gggcgtggng gcggcn 766

<210> 3495
<211> 872
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

<400> 3495
nttananttt naaaaacccc ncttntnttg gcctnacctt ncggttttct ttttttttgg 60
gccaggggna atncccccca tnccggnatt tcccggaaaa tttccgggnc caccggaagc 120
cctgggggaa aaaatgggaa aaaatttnat ttnatttttt ncaacccccc atttaggntt 180
angcccaaat ttaaaaaaaa aggaaaatta ccttccaagt taaantancc gttantnggg 240
gaaatanctt acctttaagt tccaataaaa aaaaggggga aatggaaaaa taaatggggc 300
atttttggca ngcaanccct ggggantggg aaaactgggg angaaccatt anttcttaaa 360
agtggaangt aaccttcaag ggaaaatggg aaaaaccaaa ccggtcggtg gtggttcttc 420
actctttaaa gtggggaagc taaagcttgt ggagggaccc aaagggccta agaaatgata 480
caatgggact ttggagactc aggggaaagg gtggggaggg cggtgaggga taaaacagtg 540
ccactgggtc agtgtcactg cttggtgatg gctgtccaaa atctcagaaa tcaccctaaa 600
gacttattca tgtgccaacc tcctgtccca aacctttaaa aaaaatgcgc catcccccca 660
tggaaataaa gtcaacagcc tgcagagcaa aaagactggt tagtaactta aaatattcca 720
aaagagactc ctcatgccta ctagttcact ctgaatctat caaacacgta aaggaatttg 780
gttcacacca ccaccacccc caatcttnac aatctntgag aaacagagaa ganggaattc 840
caactccttg tgaggcagct tccctgtcca tg 872

<210> 3496
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 3496
tntctnaatn tgntnncgna tcttgaggac ccatcgttca attccgnncc nagggggnan 60
ctncccntac tccntggatg tgtgtaccta gcacacttcc ttctcccacc ccttttttcca 120
gttggatttg ttttttctgtt ctcttctgtc ctgtcttata ctgcaactgt gtctcctagg 180
ggacagatgg ccttctttgt catcttcact ctccaccccc agagaggagt cagagccata 240
actcaatcac tcagcccctc caaagatagt tgatgtgtga taatctcata atgttgagaa 300
ccctgatgag atacattgtc ttcctctccc tacaatgcct ctggggccaa ggcacccatt 360
cttcttgcta tcctccatcc cccttgaggc ttccactttt tttttttta gacataaagc 420
tgggcatcag caactggcct gtggtgatgc aaagctgctt tgctctgnat ctggctggac 480
tgatctgtct cacaagaagc catgaggcca tagggagaag ctcccctctcc ccttcatctt 540
ctgctccaaa ggtggtanca agaggagtac ccagttaggg gttggagccc ccatatnaca 600
tcttcctgtc agaagactga tggatctttt tcattccaac catctccctt ttcccccgat 660
gaatgcaaat naaacttttg tgacaccagc aacccattgc tctttanaat 710

<210> 3497
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3497
nntnnnnntn tgaaancctt nggctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag attctctcaa taatggccag ccgaaaagta cgcgctgcca ggcatctgcc 120
tccgcggagt cattaaactc ccacagtggt caccccactg ctgatgtaca gactttccag 180
gcaaagcgcc atattcatca acaccgtcag tcttactgta attataacac tggaggtcag 240
ttagagggca atgcagccac ttcctatcag aagcagactg acaaacccag ccactgtagc 300
cagtttgtga cacctccgcg gatgaggaga cagttctcag cacccaatct caaagctggt 360
cgagaaaccc agtataaatc agttctggac aaacttgaaa tcatggtgga agaaacagac 420
agtgttagct catgatttga tttggttcta cctttggcct tgagttctta ttatttacat 480
tataaatatt aactggtttt atattgntaa gacaaaacac tggtaaaagt ttcaacacct 540
ccctttgct tgtataccat aaatgggcag nttctgaaat tttggataaa gcatcaagaa 600
ctcctttttc tgaaacgttc ctnctttttt agtgcctaat taatatactt acttacccng 660
gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaaaactcgg cctttaaaat 720
atagggggnn gnnttacnna aatccaann 749

<210> 3498
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 3498
gnnnnnnnnn nnnnnntttn nannnnnnnn tnnttnnnnn nnnnntttn aaaaacagct 60
cttgttcttt ttgcaggatc ccatcgattc gagactactg actctacgct taaaaattat 120
taagatggca aatttcatct tgttttttt taacttaaaa aaactacata taagatagtt 180
ttgcctgttt tcaggtttct tttcagtgtt ttaggtattc agtatttaaa tcacaaaatt 240
tgtgatttga acatttttt cttccttcat gagattttaa gtggattgat acttgctttc 300
cattctgtcc cgatgtctga cctttgtaat gtaaagaaga acattttgtt taattgagag 360

aagtctgctg tgttcttgtt gatagaggac catcctagag ttgggagtgc tgtctgcaca 420
gcaacaaacc cagagtctac tttggatcac cttatatagt tcatgagtaa tcagcagatg 480
cctttccttt ctatgtctct ctctcagtga aaggcactgt ttcttccact tggtgaggaa 540
tggcctaatg ctcattgtct gtaacaggaa tgctacaact gctcaaattg taccatttat 600
catatttggt aaggtcttgc cttagtcttg cctgttcaat tataaaagga aagaagacgt 660
aaaagatgta gagttgtctg ngtgattttc cccccattat gtcagaagag gccttaagaa 720
aactaatacc ccccacaaat atatcttttt agatttctat tatatatttn gncttatcaa 780
ga 782

<210> 3499
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3499
atacagctct tgttcttttt gcaggatccc atcgattcga attcggcacg aggttgcttt 60
caaaagacac atatcaccat agtacatgta ataacacaca taggctcaaa gtaaaggggt 120
ggcgaangat ctgttntgca gatggaaaaa aagatcaggg gtcactattc ttgtttcaga 180
taaaacagac tttttaaatc aacaacagta gaaaaaggac tagggcatta cataatgaag 240
aagggttcaa ttcaacaaga tttatcctat cacacccaag attggagcac tcagatttct 300
aaactattat ttctagacct aggaaaagaa ttaaacggcc acataataat agtgggggac 360
ttcaacacct cactgacagt gttagataga tcatcaaggc agaaaactaa caaattctga 420
acttaaattc aacagttgac taattgaacc taatagacat ctacagaata ctccacccac 480
caacaacaga acatactttt ttctcatgtg cacatagaaa atactctaag attgaccaca 540
tgctttgtca caaagcaaat ctcagtaaat tcaaaaaaga ttgaaatcat accaagcatt 600
tcagactaca gcatagtaaa aatgaaaatc aacacccagg agaaactctc aaaacatggn 660
aactnaacaa cttgctnctg natgactttt tgggtaaata taaaaatang gcttccttaa 720
ccctttttgn aacaat 736

<210> 3500
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3500
gnnttnnnnn nnnnnnnttt nanntantgc tcttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggtcaa ctctccttgg tgagtgcctc agaacttagg aaaagagaac 120
agcgcatgtc tctctcatga agatgacaga ggacaaaagc aagcagaaat atacaaggat 180
ttgcgtnctc tattatgaat ttctctttga gaaataatac ctgtgagaat gctgctcctt 240
caattaggtt caggattgga ggaaaaatca tataaaatag gttcctgcaa taatattgcc 300
ccttgagtat gggtgggctt gtgacctgct cagtgctaag gaaatgcagt ggaaatgatg 360
ctgtgtaact tctgaggcca agttataaaa gatcatgcat cttttgcctt gttagtttgc 420
tgacgcctga tatggagcac tagaaagaaa ttatttttcc aagcatcaac ccggaagtcc 480
cagcataccg agggtggcag acatcatttc ttcaatgaac ttagtattta gaaagatatc 540
ttcactccaa gcatcaagtc ttttctgtcc tgcaaaagtc ttaagtcaaa ccagaatccc 600
tagtagaggg caccttgga ttcaacagta aaaggagaat ctacaaaacc agctcatcaa 660

aaggggcagt gatgggtata gaacctgnct tacttaagtt caagcaatga ttaatctagc 720
ttccctctgg tggatgactg angnctttgc ct 752

<210> 3501
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3501
gnnttnnnnn nnnnnnnttt nanntantgc tcttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggtcaa ctctccttgg tgagtgcctc agaacttagg aaaagagaac 120
agcgcatgtc tctctcatga agatgacaga ggacaaaagc aagcagaaat atacaaggat 180
ttgcgtnctc tattatgaat ttctctttga gaaataatac ctgtgagaat gctgctcctt 240
caattaggtt caggattgga ggaaaaatca tataaaatag gttcctgcaa taatattgcc 300
ccttgagtat gggtgggctt gtgacctgct cagtgctaag gaaatgcagt ggaaatgatg 360
ctgtgtaact tctgaggcca agttataaaa gatcatgcat cttttgcctt gttagtttgc 420
tgacgcctga tatggagcac tagaaagaaa ttatttttcc aagcatcaac ccggaagtcc 480
cagcataccg agggtggcag acatcatttc ttcaatgaac ttagtattta gaaagatatc 540
ttcactccaa gcatcaagtc ttttctgtcc tgcaaaagtc ttaagtcaaa ccagaatccc 600
tagtagaggg caccttgga ttcaacagta aaaggagaat ctacaaaacc agctcatcaa 660
aaggggcagt gatgggtata gaacctgnct tacttaagtt caagcaatga ttaatctagc 720
ttccctctgg tggatgactg angnctttgc ct 752

<210> 3502
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 3502
tacagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga ggaaaacatc 60
taactaagat ggtttcactg gtgaattcaa tcaaatattt aaggaacaca taataccaaa 120
accataacac atncaaatnt atggcccttc agattttgtn cttcttttng ggtcagtgtt 180
aataatacgt atctttcaaa gaatatcccc ctttttttt ggtagagata ggggttttgc 240
catgttgttg gtagcaagcc ctaaccctgt cataaacagg ccttaaataa actggccata 300
aacaggattt ctgcagcaat gggacatgct catgatggct gtcatgcaca ctgcgaaaag 360
ttgttggttt actggagcag ggcaaggaac acctggcccc gcccggagca aaaaactgtc 420
aaaccacaaa cgatagcagg aaaggcctgt gccttggcag catgtttttg ctgcagataa 480
tcagccagag cctgtttctc tgctcctcgc tgagattgct ttgtttccca taaagattgc 540
ttttagctaa tctacaatct atagaacaat gcttatcact gctttctgtc aataaatgtg 600
tgggtcaagc tctgnttgtg gctctcagct ctgaaaaaaa aaaaaaaaaa aaaaactcga 660
gcctntaaac tntgngagtc gnttacctan atccagacnt gataggatcc atgatgagtt 720
tggncaaccc ncactng 737

<210> 3503
<211> 738
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3503
tnaanatcnt gctacttgtt ctttttgcag gatcccatcg attcgcgtcc gctctcattg 60
gctctgctgg tccagaaagc agcccaggcc tttaactccg ggctgctgtg tgtggcatgt 120
ggttcatacc gacggggaaa ggcgacctgt ggtgatgtcg acgtgctcat cactcaccca 180
gatggctggt cccaccgggg tatcttcagc cgcctccttg acagtcttcg gcaggaaggg 240
ttcctcacag atgacttggt gagccaagag gagaatggtc agcaacagaa gtacttgggg 300
gtgtgccggc tcccagggcc agggcggcgg caccggcgcc tggacatcat cgtggtgccc 360
tatagcgagt ttgcctgtgc cctgctctac ttcaccggct ctgcacactt caaccgctcc 420
atgcgagccc tggccaaaac caagggcatg agtctgtcag aacatgccct cagcactgct 480
gtggtccgga acacccatgg ctgcaaggtg gggcctggcc gagtgctgcc actcccactg 540
agaaggatgt cttcaggctc ttaggcctcc cctaccgaga acctgctgag cgggactggt 600
gacccatggc ttgggggtgc tgangaaagc ccanttggac tggctacccc ttctggccac 660
ccagtacttc cttcagcctt aactgggtga acttgccggt tcaaccacca actttctnag 720
cgagcanggg ccaaggct 738

<210> 3504
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3504
tcccttggnn nnnnnnnnnn tttnannata nagctcttgt tctttttgca ggacccatcg 60
attcgaattc ggcacgagga aaacatctaa ctaagatggt ttcactggtg aattcaatca 120
aatatttaag gaacacataa taccaaaacc ataacacata caaatatatg gcccttcaga 180
ttttgtactt ctttttgtgt cagtgttaat aatacgtatc tttcaaagaa tatccccctt 240
ttttttggt agagataggg ttttgccatg ttgttggtag caagccctaa ccctgtcata 300
aacaggcctt aaataaactg gccataaaca ggatttctgc agcaatggga catgctcatg 360
atggctgtca tgcacactgc gaaaagttgt tggtttactg gagcagggca aggaacacct 420
ggccccgccc ggagcaaaaa actgctcaaa ccacaaacga tagcaggaaa ggcctgtgcc 480
ttggcagcat gtttttgctg cagataatca gccagagcct gtttctctgc tcctcgctga 540
gattgctttg tttcccataa agattgcttt tagctaatct acaatctata gaagcaatgc 600
ttatcactgg ctttctgtca ataaatgtgt gggtcaagct ctgtttgtng gctctcagct 660
ctgaaaaaaa aaaaaaaann nnnnnnnncc tcgagcctnt aaaactatag ngagtcgtnt 720
tacgtanatc cagacatgat aaganccatt ggtgagtttg 760

<210> 3505
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3505
gnnnttnnnn nnnnnnnttt tntaganaca ggctacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagc agagacctga cagtggcaat gtatggccac gttactgaat 120
ctacatgttg caagagaaaa actagcagat gttctttggc agccctgtca ttcagctatt 180
attgctaaag cactaggtgg gaatcattat gaaaatttcc atcctcaaat agaaaggaga 240
tttgacatat cctcttctct tgctggttta attgatggga agctttgaaa ttggaaattt 300
gcttgtgatt gtatttgtaa gttactttgg atctaaacta cacagaccga agttaattgg 360
aattgggttg tctccttatg ggaactggaa gtattttgac agctttacca catttcttca 420
tgggatatta taggtattct aaagaaaccc atattaatcc atcagaaaat tcaacatcaa 480
gtttatcaac ctgtttaatt aatcaaacct tatcattcaa tggaacatca cctgagatag 540
tagaaaaaga ttgtgtaaag gaatctgggt cacacatgtg gatctatgtc ttcatgggga 600
atatgcttcg tggcataggg gaaaccccca tagtacccat tgggggattt catacattga 660
tgattttgca aaagaaggac attcttnctt gtatttaggt agtttgaatg caataaggaa 720
tgattggtcc agtcattggc tttgcactgg gatctctggt tgctan 766

<210> 3506
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3506
tnaannanag ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggtc 60
catacatgga gctccctgga cccgtgtgct ctcgtgtgac tgaacgtttt gtgatgaaag 120
gaggagaggc tgtctgcctt tatgaggagc cagtgtctga attgctgagg agatgtggga 180
attgcacacg ggaaagctgt gtggtttcct tttacctttc agctgaccat gaactcctga 240
gcccgaccaa ctaccacttc ctgtcctcac cgaaggaggc cgtggggctc tgcaaggcgc 300
agatcactgc catcatctct cagcaaggtg acatatttgt ttttgacctg gagacctcag 360
ctgtcgctcc ctttgtttgg ttggatgtag gaagcatccc agggagattt agtgacaatg 420
gtttcctcat gactgagaag acacgaacta tattatttta cccttgggag cccaccagca 480
agaatgagtt ggagcaatct tttcatgtga cctccttaac agatatttac tgaaggaatc 540
taggttgtat tttcagtgga caatgggaat aaagcatttc taaagcaccg actggagagg 600
aaggcaacag aaacaaggag agaagcccga gagacatgtc tgcgtgctgc cacgcatctg 660
ancgattgct cttgtgaaga gtttgtcact gaacattttc aggggaggct gtttacccag 720
cnatgtnctn aacan 735

<210> 3507
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3507
natngnttgc tcctngttct ttttgcagga tcccatcgat tcgagacaac ccagaaacaa 60
attcatacat ctatggtgac cacttttgac aaaggaatga agaacataca ctgggggaaa 120
agataatgtc tttaataaat ggtgctggga aaactggntn tccantntgc agaagaatga 180
aactagaccc ccatctctta gcatatacaa aaatcaaaat taattaaaaa gttaaatcta 240
agacctcaaa ctatgaaaca gctaaaagaa aacatcgggg aatctctcca ggacattgga 300

gtgggcaaag atttcttgtg taatacctga caaacaggca accaaagcaa aagtggacaa 360
atgggatcac atcaagttaa aaatcttctg cattgcaaag gaaataacaa agtgaagaga 420
cacccataga atgtgagata atatttgcaa actatccatc tgtattaggc cattttgaa 480
gtctacaaag aaatacttga gactgagtaa tttataaaga agaggtttaa ttggctcacg 540
gttttgcagg ctgtcaggaa gcatggtgct aacatctgat cagcttgtag ggaggcatca 600
ggaagtttcc acccatggtg gangcaaaag gggaataagt ttctccatgg caggtgcagg 660
gcaaaaanan gggggaaggg aagtgccnca caaccagatc ttgtgagtnc tcagatttgn 720
ggngggngct tgngg 735

<210> 3508
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3508
taaacatcng gctacttgtt ctttttgcag ggatcccatc gattcgaatt cggcacgaga 60
cactgtccca ctccatcacc caggctggag tccagtggtg tgatcatagc tcgctgcatc 120
ctccagttcc tgggttcaag ccatccctcc tgcctcagcc tccccagtag ctggaactac 180
aggtgtgtgc catcacacct ggctttacat ttttctgtgg ggtcttacta tgttgcccag 240
gccggtctca aactcctgag ctcaagtgat cctctgcctc agcctccaga gtatctggga 300
ttacatatgt cggctaccgt gtctggccgt tcacatcttt ggccactatt tgcttgtgaa 360
aaggtataat gaggtggtac ttatcatttt tactgngtct catgttttgt atatttttgt 420
ttcatcaact aagatgcact gtaacatctc tgaaatctgg atatattatc aatggtttat 480
catagttttg ttagcaatac actgtctttt agtggtgcct aaaataatgg tatagttgtg 540
aggtgatctt agatttgatg aagcacagta tgcaggtagg cctaatgggg gaagatggta 600
atataaaagc aagaagtatt tttttttttgt aatgactgaa agctgtctgt ggatgaccta 660
ccctttnctt taaacacgat tntntcactt ncaactncaa acttgctcaa ctaatncttt 720
aaaaataact tgagc 735

<210> 3509
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3509
tnaaannnnn tngctncnnn nnnnnnttttt aaacaanagc tcttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagggata ttcattaccc tgagaatgaa atgacctgca 120
attcgaaaat cagctgtatc agttggagta gttaccataa gaacctgtta gctagcagtg 180
attatgaagg cactgttatt ttatgggatg gattcacagg acagaggtca aaggtctatc 240
aggagcatga gaagaggtgt tggagtgttg actttaattt gatggatcct aaactcttgg 300
cttcaggttc tgatgatgca aaagtgaact gtgggtctac caatctagac aactcantgg 360
caagcattga ggcaaaggct aatgtgtgct gtgttaaatc agcccctctt ccagatccat 420
ttggctttcg gctgtgcaga tcactgtgtc cctactatga tcttcgtaac actaaacagc 480
caatcatggt attcaaagga caccgtaaag cagtctctta tgcaaagttt gtgagtggtg 540
aggaaattgt ctctgcctca acagacagtc agctaaaact gtggaatgta gggaaaccat 600
actgcctacg ttccttcaag ggtcatatca atgaaaaaaa ctttgtaggc ctgcttncaa 660

tggagattat atagcttgtg gaagtgaaaa taactctntt tcctgtccta taaangactt 720
tntaagactt tgctactttt aagttgatac agncaa 756

<210> 3510
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3510
tntnnatctt gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagaa 60
gtagaggagg aaagttcaga caatttcata agtgtctaaa aagagacagt tntgcgacca 120
ttggncgagg agtaaangtc gcttnttngn ncntttantt cactncaaat nganaaanga 180
antnccagtt tcctgacang cccaacccan tgctnggcca gttcctgagt ccacttaata 240
tatttaagag gaaaagatct nggaccacag gagaatggcg tggattgacc taccagatta 300
tgaccatgta gaagatgaac tttttcctcc tttccacctn cagcctntcc agagagacaa 360
gatggtgaag gaactgagcc tgatgaagag tcagggaaat ggacacctgt tcctgtcctn 420
caaagagaac agttaaaaga aatntcccaa gctggatgct cagagattaa tttcagagag 480
aggacttcca gccttaaggc atgtatttga taaggcaaaa ttcaaaggta aaggtcatga 540
ngctgaagac ttgaagatgc taatcagaca catggagcac tgggcacata ggctattccc 600
taaactgcag tttgaggatt ttattgacag agttgaatcc tgggaagtaa aaaggaagtt 660
canatgaagt tgcngagaat atgacatgag gccttctact gaatagatcc tttctgacaa 720
cttattgaaa gtganatgtt gcttctgagt a 751

<210> 3511
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3511
tacaggctac ttgttctttt tgcaggatcc catcgattcg atcacagggg aatgttagaa 60
gtgttttatt aatttctttg tcagacaagt gtttaggaaa ctctcactcc aggcctaatg 120
ctgtgctagg ctctgcaaat gctaagaggg ggaagttact gtccctgctt ccaaggagat 180
catgggtcta gtgggaaacc cgacacgttc aggtaccttc agatgggcac tcagaagagt 240
aagcccttag ttaatgttta aagatgttta aagatgtctg agactcatag gtcaaagtca 300
gatttcagtt ccaccttatt agacctgcac tgctaaggag ctgctttagg taaggctgtg 360
ttcctagtca ccagggtgtt caaacacagt gctgggggca atgtgggaat agccttcttt 420
tatttaggaa gtaatgtgaa gtcagtttca tgaatagatc ttactttaag cattcattga 480
gggttttggc aagaatagag taccgtatat gaaggtgttt cctaatctnc ctgcaccagg 540
aataatctag ggctcattan agatgtcaaa gatctggtct agtttcttaa cctaaaacaa 600
gagtgtttta attccatttt ataggcgggg agtctgagcc aaacatgtta tgtcactttt 660
ccaagcttca tancacaaaa gtcttctgtc ttcccatcct gactttncca cttcataggg 720
actgtcaaag gcagcn 736

<210> 3512
<211> 772
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3512
gnnntttnnt tttnnnnntn anagnaaaan ctttttgcta cttgctcttt ttgcaggatc 60
ccatcgattc gaattcggca cgaggagaag ctgacgggca tgtggtggaa acngctggtg 120
gcccggcgca gtggcaggtg cccgtgtcac ggacaggcac ggcccctctg gaccgcttaa 180
aggtcttcat gcaggtccat gcctcaaaga ccaaccggct gaacatcctt gggggggcttc 240
gaagcatggt ccttgaggga ggcatccgct ccctgtggcg cggcaatggt attaatgtac 300
tcaagattgc cccgagtcaa ctatcaagtt catggcctat gaacagatca agagggccat 360
ctggggcagc aggagacact gcatgtgcag gancgcttcg tggctggctt cctggctggt 420
gccacaaccc aaaccatcat ttaccctatg gaggtgctga agacccgctg accttncgcc 480
ggacgggcca atataagggg ctgctggact gcgccaggcg tattctggan agggaagggc 540
ccgtgccttc taccgcggta cctcccaacg tgctgggcat catccctatg cggcatngac 600
ctggccgcta cnagactctg aanaactggt ggcttaacan tacaagccac gactcggaaa 660
accaagcatt ctctgcttct ggctgcggac catatcaaca ctgcggcaaa tagccantta 720
cccgttggcc ttgtccggac ccnatcagcc aaccgtggta ttccataaca an 772

<210> 3513
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3513
agnnnnnnnt tttnngcnan ngnaaacttt ttaangaagc tttaatannc ctttctctgg 60
atccctcgag gcgaattcgg cacgagctac acagttccca ttcnttacct taacnttgta 120
ctgagagaga cccaggtctg acctgtatag cagtttgagt cgaggggctg tcaaaggggt 180
tgccaaagtc atctaaagga cttggcacca gaagtagcat tatgacttng gatccacttc 240
tttatagacc aatattggca gccatgaagc tgcttgtcct gggtgcggaa ttcagtttta 300
gtggctgaat gcacagacag caggaagaga gaatagggga caatgaacaa cagagagaga 360
agaaatgcag tgtgtaggga acctgcaggt ggtaacagtt gaaactcata tcaatgatct 420
tgcctattta ccactccatg tgcctactct ggctgtctaa tccagcagta accagtattg 480
nattctaggg ccttccccaa attggagcta cccccagaat ttctcangct tttaattcct 540
gaaaatcttt taaactaaaa cttctangtc agttgtcccc aggggaactg aggctgtttc 600
tacctgctgc attgtcagca aaacttgcta catgctaatt attccacttt cagtgaagca 660
atcaatgagt gacagtagga aataactttg anagttggtt ggttcctaac atggcctctt 720
aataatggaa atgagaccaa attggggacc taatnttgcc aaggaanaat ggnnaggt 778

<210> 3514
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3514
agnnnnnnnt tttnngcnan ngnaaacttt ttaangaagc tttaatannc ctttctctgg 60
atccctcgag gcgaattcgg cacgagctac acagttccca ttcnttacct taacnttgta 120
ctgagagaga cccaggtctg acctgtatag cagtttgagt cgaggggctg tcaaaggggt 180
tgccaaagtc atctaaagga cttggcacca gaagtagcat tatgacttng gatccacttc 240
tttatagacc aatattggca gccatgaagc tgcttgtcct gggtgcggaa ttcagtttta 300
gtggctgaat gcacagacag caggaagaga gaatagggga caatgaacaa cagagagaga 360
agaaatgcag tgtgtaggga acctgcaggt ggtaacagtt gaaactcata tcaatgatct 420
tgcctattta ccactccatg tgcctactct ggctgtctaa tccagcagta accagtattg 480
nattctaggg ccttccccaa attggagcta cccccagaat ttctcangct tttaattcct 540
gaaaatcttt taaactaaaa cttctangtc agttgtcccc aggggaactg aggctgtttc 600
tacctgctgc attgtcagca aaacttgcta catgctaatt attccacttt cagtgaagca 660
atcaatgagt gacagtagga aataactttg anagttggtt ggttcctaac atggcctctt 720
aataatggaa atgagaccaa attggggacc taatnttgcc aaggaanaat ggnnaggt 778

<210> 3515
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3515
gnntttnan nnnnnnnntt ttaaaanatc aagttcttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagc cggagagaag cagcaggagg gcggcggcgc cgtgcgctgc 120
gacacacctg ccaactgcac ctatcttgac ctgctgggca cctgggtctt ccaggtgggg 180
ctccagcggt tcccagcgcg atgtcaactg ctcggttatg ggaccacaag aaaaaaaaag 240
tagtgggtgt accttcagaa gctggataca gcatatgatg accttggcaa ttctggccat 300
ttcaccatca tttacaacca aggctttgag attgtgttga atgactacaa gtggtttgcc 360
ttttttaagg atgtcactga ttttatcagt catttgttca tgcagctggg aactgtgggg 420
atatatgatt tgccacatct gaggaacaaa ctggttatta aatagagcat ctgttgaggg 480
actcttttaa aaccacagcc atgaacagac gttggggcta agagacagac agcctgcgac 540
agtgtggacc tacctgtagc agctagcaaa ggcctctagc agctacagtc ccttctggag 600
tctttatttg catgcaaaat gcaaaggagt cctggtgacc tactccaagc actgcccttc 660
tgaacactcc ttggaaaaca gtaaacatca ttttggaatg tgaacaacca gagactnccc 720
aggagaaagg aaaaaaaaat tntgaagatg caaaatcttg ggtggcttca ccgtcaattt 780
ttaa 784

<210> 3516
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3516
gnntttnnnn nnnnnnnttt tnnnnatcag ctctgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagcacag tccttctgga gccagacccg aagccacagt agcagtgcca 120
gctcagcaga aagtcaggac agcangagga ggaagaaaan gaaggaaang aaaaacncag 180
gaancntaaa aggcttagga ncttangaaa cntgcaggcn ctgaagtgga attggaaaaa 240

nccaaaaccc caancccang aaaangagtc aanganganc aangntaaga gaaggagaag 300
gagaaggatg accaaaangt gaatctgcct gtgtaaaagg cagatttttt aattgcttaa 360
tactaagtca tctgtttnaa atttggtata tgtaagagat tcaagccttg naatatgaca 420
tggaagaccc tgtgctgcac ttaaatatgc ttgcttgatt atttgatttt acatcagagc 480
tttataacac gaacttttgt ccagaattgt gagttgtgcc atgttacatg aganggtttt 540
gctagggcct attattttta ccaccattaa ttagttgggg tggagtttac tgtaatgtga 600
aatttcccat ttgaattttt aatggctggc aaagctgntt tagtcttaaa ttcancggat 660
gattgctgaa tcattncacc ctgtatgtcc ttttggntnc atnaaagttt cagtaacttt 720
caaaaaaaaa nnnnnnnnnn nnnnaa 746

<210> 3517
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 3517
gnntttnnnn nnnnnnnntt ttatannata cagctcttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg aaaggacagt gctacttgta tatgaaggtt atagaacgag 120
cggcttttcc tcggcgtctc tgggaacggg tccggcttag taaaaactat gagaaagcac 180
tggagcaaat agatgaaaat ctgatttact ggccccgttt cattcgacac aaatgtaagc 240
agagattcac caagatcacc caatcctaat tcgaattaga aaacttcact aaagcgacag 300
aggaaacttg ttcctttgag taagaaggtg gagcgtaggg agaaaagaag agaggaaaag 360
gcattaatag ctgctcagct ggacaatgcc attgagaagg aattactgga gagactgaac 420
aagatacgta tggcgacatc tacaacttcc cattcatgcc ttcgacaaag ccctggaaca 480
acaggaggca gagagtgact cttcagatac tgaggaaaaa gatgatgatg atgatgatga 540
ggaagatgtg gggaaaagag aatttgtcga agatggtgag gtagatgaga gtgacataag 600
tgattttgag gatatggata actggatcca gcagtgatga agatcaggat ggtaaatcct 660
ccatgaggag gaggaagaaa aggccttatg cgaaacacaa angcnaaatg cccttganag 720
gncctgcgga naaaccaacc tnttggaaat ngaatncaac nggagacaaa cccgtgg 777

<210> 3518
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3518
taannnatac agctacttng ttctntttga agcnctttnn ananatacan gctacttgtt 60
ctttttgcag gatcccatcg attcgggcct ccccaccccc gctgcacacc tacactgaag 120
gaaggctatt tgcagatgca gcaagaangc agccatctgc aaggcagaag aagagaccct 180
caccaggaac tgaataagtc agtcagtctg ggacttccac ctctagaact gtgaaacaat 240
aaatttctgt ggtgtaagca actcaatcta tagtagtttg ttactatttt gttatagcaa 300
ccaaagatga ctaaccagac aggttatgtc actcgccaag tgtcttggtc tgtttgtgct 360
gctataacaa aataccttag actgggtaat ttacaaacaa cagagatgta tccagagatc 420
cacagttctg gaggctgaga agtctaaaat caaggcacca gcagattcca catctcgtga 480
aggctcactc tctgcttcac agatggcact gcttgctgtg ttctcacatg gcagaagggg 540
caaacaagcc cccctgggcc tcttttataa aggcactaac tctatgccta aangcagggc 600

cctcatgact ctatcaccta ccaaaaggct tcacttcttt atactattgg angggtagaa 660
ngaacttcct ttctagacct tgaaaggtta agaaatttga atctattaaa caagctgaca 720
atngacagat taacaggaga aaaagcntat acatttttta atgtgggcca aatggcaaaa 780
gcttaaata 789

<210> 3519
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3519
tatagnatca gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagcga 60
ataaagcaga aaaggagaga tcgctgaagg aaaagtctcc gaaagaagaa aaactgagac 120
tgtacaaaga ggagagaaag aagaaatcaa aagaccggcc ctcaaaatta gagaagaaga 180
atgatttaaa agaggacaaa atttcaaaag agaaggagaa gatttttaaa gaagataaag 240
aaaaactcaa aaaagaaaag gtttataggg aagattctgc ttttgacgaa tattgtaaca 300
aaaatcagtt tctggagaat gaagacacca aatttagcct ttctgacgat cagcgagatc 360
ggtggttttc tgacttgtcc gattcatcct ttgatttcaa aggggaggac agctgggact 420
cgccagtgac agactacagg gacatgaaga gcgactctgt ggccaagctc atcttggaga 480
cggtgaagga ggacagcaag gagaggaggc gggacaccgg gcccgggaga agcgagacta 540
cagagagccc ttcttccgaa agaaggacag ggactatttg gataaaaact ctgagaagag 600
gaaagagcag actgaaaagc ataaaagtgt ccctggctcc tttcggaaaa ggcaagaaga 660
ngagagagtc cncaaagccc ggccggacag aaggacccct ggaagctgca aggancncag 720
ggaccgcagg gccaacccna ggaggtgccc cggaggactn aat 763

<210> 3520
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 3520
tnannnannc annnnnnnnn nnnnntttga agccattgct acttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagagcaa ttccactcct agctccaccc acaggaaatt 120
gaaagcaaag acgcaaacag atgcctgtgc accaaagttc acgggcaagc atccttcggc 180
cttaatgggc agcattccgt cgtcacaagc gggcattcat cctttcatca atagcgggca 240
gcattccgtc gtcacaagcg ggcagcattc ctttcgccac aagcgggcag catcttgtcc 300
gtcacaagcg ggcagcatcc ttcgccaaag cgggcaagca tccttcgtca tagcggcagc 360
atcctttgcc atagcgggca aggtggaaac cctgtccatc cactgaggcg tgcatagact 420
aaacatggcc agtccaggca ctggaatcca ggcccgtaga acggcgccca cggtcaaaag 480
gaatgagacc ctgatgcact gggcgacaca gacgggcgac acagacttgg agacatcatg 540
ctaagtgaaa agccaggcac acggagcgga cggcgtgatc ctgctcacgt gatgtgtccc 600
gaatgggcac gttcagaggg aagaagggag atggcgcttg ccggtgcccg gggacngggg 660
ttgggagcga cggttgctgg tttggggttt ctttctgggg tgangaantg gttttgatat 720
ttggnccgtt ggtgatgttt gcatacctct gaatatgctt aaganccaca gaattgacca 780
ctttaaatgg atgaattgna tggtattggg aattacccaa n 821

<210> 3521
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3521
gnnntttnnt tttnnnnntn anagnaaaan ctttttgcta cttgctcttt ttgcaggatc 60
ccatcgattc gaattcggca cgaggagaag ctgacgggca tgtggtggaa acngctggtg 120
gcccggcgca gtggcaggtg cccgtgtcac ggacaggcac ggcccctctg gaccgcttaa 180
aggtcttcat gcaggtccat gcctcaaaga ccaaccggct gaacatcctt ggggggcttc 240
gaagcatggt ccttgaggga ggcatccgct ccctgtggcg cggcaatggt attaatgtac 300
tcaagattgc cccgagtcaa ctatcaagtt catggcctat gaacagatca agagggccat 360
ctggggcagc aggagacact gcatgtgcag gancgcttcg tggctggctt cctggctggt 420
gccacaaccc aaaccatcat ttaccctatg gaggtgctga agacccgctg accttncgcc 480
ggacgggcca atataagggg ctgctggact gcgccaggcg tattctggan agggaagggc 540
ccgtgccttc taccgcggta cctcccaacg tgctgggcat catccctatg cggcatngac 600
ctggccgcta cnagactctg aanaactggt ggcttaacan tacaagccac gactcggaaa 660
accaagcatt ctctgcttct ggctgcggac catatcaaca ctgcggcaaa tagccantta 720
cccgttggcc ttgtccggac ccnatcagcc aaccgtggta ttccataaca an 772

<210> 3522
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 3522
aaacagctac ttgttctttt tgcagggatc ccatcgattc gggagaaatg ctggccacag 60
atggtgctgc ccaacaggcc cataccactc gttccagtca gaggtgcttg gcctttgtgg 120
gatgaatgtt cgttggttca aatcaagctt tttccaaatg aacaaganca ctggnctta 180
ccatattttg gcaaggatcc gaaatcaagg gttcttcttt caaagtgctt gccaggggga 240
atcttgaaag aagggtaccc cttgcaacaa aacctggttc cctgtaaacc ctcttcttga 300
agggaatccc ctgcttgccc cacttggcat tttccaagtt tgcccttcct caagaatgta 360
ttaaaccccg aaccagggta cttgtcttgt gcccaagacg atcttgggaa acccggcccc 420
atgggatctg tacttgantg cttgctgagc ttcacccact gagagtttac ctctggagtt 480
cantgatgac ttggatgttg tgggtgatgg tatgcantgt ctncttaact ttgctttttg 540
atccttcact aacccttgaa gatcatttan tcaaagaaat tgcttgaaga cacantggat 600
attttgggcc anatgcaaat ggctggagat nggtgcagat cccanggatc tcgaaattct 660
gagaaagctt ttgnaccatt ggcttaaaat ggattggcta ctgcaaatgg gaagccagaa 720
ccacttttat tanttgatag tttggggaac catttacttt ggtggattna aattctcgtc 780
tttaaaagaa gtatttctga acatntttaa caaaaaaan 819

<210> 3523
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3523
taaanaatca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgagcggg 60
actggtacca ccgcatcgac cccaccgtgc tgctgggcgc gctgccgttg cggagcttga 120
cgcgccactg gtacaggacg agaacgtgcg cggggtgatc accatgaacg aggagtacga 180
gacgaggttc ctgtgcaact cttcacagga gtggaagaga ctaggagtcg agcagctgcg 240
gctcagcaca gtagacatga ctgggatccc cacttggaca acctccagaa gggagtccaa 300
tttgctctca agtaccagtc gctgggccag tgtgtttacg tgcattgtaa ggctgggcgc 360
tccaggagtg ccactatggt ggcagcatac ctgattcagg tgcacaaatg gagtccagag 420
gaggctgtaa gagccatcgc caagatccgg tcatacattc acatcagcct ggccagctgg 480
atgttcttaa agagttncac aagcagatta ctgcacgggc aacaaaggat gggacttttg 540
tcatttcaaa gacatgatgt atggggatta gaaagaactc aagacactcc tgcttgatac 600
agaacaaaaa gagcttaaca ggaccaacan ggcttaaccc agacttgacg taacagaaat 660
gtgccaatag gtaataggta attttctttc tctgacttgg tttggtttct ttgaaataac 720
actgttgtgt nggctngaaa nggaaaaaaa aaaaaaaaaa aaaan 765

<210> 3524
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3524
gnntttnaaa nnnncagntc ttgttctttt tgcaggatcc catcgattcg ccaggctagt 60
cttgaactcc tggcctcaag caatcctccc acctcggcct cccaaagtgc tgggattaaa 120
ggcgtgagcc accgtacctg gcccttggtg gaatctttag ggttttctat tcatacatat 180
aaaatcatat cattggcaaa cagagataat tttacttcct cctttccaat ttggatgcct 240
tagatttctt ttccttgcct aactgctctg tctagaactc ccagcactat gctgaataga 300
gtggcaagag caggcatttg ccttgttcct aaccttagag aaaaatcctt cagcctttta 360
ccattgagga tgatgtttgc tggtagtttt tcataaatga tctatatcag gctgaataaa 420
tttctatttc taaaaaaaaa aannnnannnn nnnnnnnnnn nnnnnnaaaa aaaaaaaact 480
cgagcctnta nactatagng agtcgtatta cgtagatcca gacatgataa gatncattga 540
tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa gctttatttg ngaaattggg 600
gagctattgc tttatttgna accattntaa gctgcaataa acaagttaac accaccaatt 660
gcttcattta tggttcaggt caggggggagg tttggaggtt ttttaattcg cggccgnggg 720
ccaatgcatt gggcccggtc ccaactttgg tccctttagg gng 763

<210> 3525
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3525

ggnnntttnn attatacagt tcttgccttt ttgcaggatc cctcgattcg aattcggcac 60
gaggtggcta tccatcaaca taagtaaaaa aaaaaaacac tttnctccct cccccattta 120
gattatttat taacatattt taaaaatcag atgagttcta taaataattt agagaagtga 180
gagtatttat ttttggcatg tttggcccac cacacagact ctgtgtgtgt atgtgtgtgt 240
ttatatgtgt atgtgtgtga cagaaaaatc tgtagagaag aggcacatct atggctactg 300
ttcaaataca taaagataaa tttattttca cacagtccac aaggggtata tcttgtagtt 360
ttcagaaaag cctttggaaa tctggatcag aaaatagata ccatggtttg tgcaattatg 420
tagtaaaaaa ggcaaatctt ttcacctctg gctattcctg agaccccagg aagtcaggaa 480
aagcctttca gctcacccat ggctgctgtg actcctacca gggctttctt ggctttggcg 540
aaggtcagtg tacagacatt ccatggtcca gagtgctcag aaactcaaga taggatatgc 600
ctaccctcag ctactcctgg tttaaagttc agctctttga gtactcttca attctttcag 660
gacacttggg tggaattcag taagtttcct ntgaacaccc tgaanggtgc catccttaca 720
gactaantgg agacgtttcc agatcagccc aagtttacta tagag 765

<210> 3526
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3526
tttttaaana aancaggntt cctaatnctt gttntnnnga nacaggctac ttgttctttt 60
tgcaggatcc catcgattcg aattcggcac gagattctct caataatggc cagccgaaaa 120
gtacgcgctg ccaggcatct gcctccgcgg agtcattaaa ctcccacagt ggtcacccca 180
ctgctgatgt acagactttc caggcaaagc gccatattca tcaacaccgt cagtcttact 240
gtaattataa cactggaggt cagttagagg gcaatgcagc cacttcctat cagaagcaga 300
ctgacaaacc cagccactgt agccagtttg tgacacctcc gcggatgagg agacagttct 360
cagcacccaa tctcaaagct ggtcgagaaa ccacagtnta aatcagttac tggacaaact 420
tgaaatcatg gtggaagaaa cagacagtgt tagctcatga tttgatttgg ttctacctttt 480
ggccttgagt tcttattatt tacattataa atattaactg gttttatatt gttaagacaa 540
aacactggta aaagtttcaa cacctccctt ttgcttgtat accataaatg ggcagtttct 600
gaaattttgg ataaagcatc aagaactcct ttttctgaaa cgttcctcct tttttagtgc 660
ctaattaata tacttactta cacggaannn annnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnaaaac tcgnnccttt aaaactatag ggngtcgttt acctaaatcc aann 774

<210> 3527
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3527
gnnnntnnnt tnnnnnnnnt ttttaaaana ancagctact tgttcttttt gcaggatccc 60
atcgattcgc tcgagtnncn aggagacgtg cagctgtcca aggctctgtc ctatgccctg 120
cgccatgggg ccttgaanct ggggcttccc atgggagctg atggcttcgt gcccctgggc 180
accctcctgc agntgnccca gttccgcggc ttntntgctg aagatgtgca gcgcgtggtg 240
gacaccaata ggaagcagcg gttcgncctg canntggggg atcccannac tggncttnta 300
atccgggcca accagggnca ttccctgcan gtacctaagn tggagctgat gcccctggag 360

acaccgtagg ccctgcnccg atgctagtcc atggtacatt ctggaagcac tggcatccat 420
cctactcaaa ggcctgtcct gccanggaag gacgcacatt cacctgcccc angactgcct 480
ggagaccccg gtatcatcan tggcatgcgg tcccattgng aaatagctgn gttcatcgat 540
ggacccctgg ctctggcaaa tggaataccc ttctttcgtc tgccaatggg gtgatantga 600
cttcanggaa tactgatggc ttcctacttc caagtacttc aangaggccc tgcagntacg 660
ccctaccgaa accccnttcc ttgnntggtg atgaaaagac acaatgtaat agtncccnaa 720
cccantttca ganaaaggag gaggatccaa cattaaatat tanttataaa aagaattta 779

<210> 3528
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3528
gnntttgaaa nccctttttg atncctcttc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgaggttc ttcaaagcca accnagacag gcttagcagt tttagagctt 120
cagaacaaat tgccaaaagc cagagttgtt tatgctagtg caactggtgc ttctgaacca 180
cgcancatgg cctatatgaa ccgcttggca tatggggtga ggggtactcc atttagagaa 240
tcagtgattt tattcaagca gtagaacgga gaggagttgg tgccatggaa atagttgcta 300
tggatatgaa gcttagagga atgtacattg ctcgacaact gagctttact ggagtgacct 360
tcaaaattga ggaagttctt ctttctcaga gctacgttaa aatgtataac aaagctgtca 420
agctgtgggt cattgccaga gagcggtttc agcaagctgc agatctgatt gatgctgagc 480
aacgaatgaa gaagtccatg tggggtcagt tctggtctgc tcaccagagg ttcttcaaat 540
acttatgcat agcatccaaa gttaaaaggg ttgtgcacta gctcgagagg aaatcaagaa 600
tggaaaatgt gttgtaattg gtctgcagtc tacaggagaa ctngacatta gaagctttgg 660
aagaggccgg ggagaattga tgatttgttc actgccaaag ngtgttgcag cactcattga 720
aaacatttcc tgttcanaca ggaaaacttt ntagttacta ga 762

<210> 3529
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3529
gntttnnnnn nnnnntttnt nnatacagct acttgttctt tttgcaggat cccatcgatt 60
cgcaggcgta ctgacaggtg gaccagcgga ctggtggaga tggcgacgct ctctctgacc 120
gtgaattcag gagaccntcc gttagganct ttgttgncag nnnancncgt naaaaacnat 180
gtnagnnttt ccgttgaana agggaaagag antnttcttn atgtttctga aaatgtgatn 240
ttcacagntg tgaattctat acttcgttac ttggctagag ttgcaactnc agctgggtta 300
tatggctcta atctgatgga acatactgag attgatcact ggttggagtc agtgctncaa 360
aattatcttc atgtgattcc tttacttcta caattaatga actcaatcat tgcctgtctc 420
tgagaacata cttagttggg aaactccttg agtttagcag atttatgtgt ttgggccacc 480
ctaaaaggaa atgctgcctg gcaagaacag ttgaaacaga agaaagctcc agttcatgta 540
aaacgttggt ttggctttct tgaacccagc aggccttnca gtcagtaggt ccaagtggga 600
tgtttcaaca ccaaagctcg agtggcacct gagaaaaaca agatgttggg aaatttgttg 660
agcttncagg tgccgganat gggaaanggt accggcagat ttcctccaaa ggccatgggt 720

acttacacat tgggcattcn aaaactgntc ttntgaccac actaccaggt 770

<210> 3530
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3530
gntttnnnnn nnntnttnaa gntcttgcta cttgttcttt ttgcaggatc ccatcgattc 60
gcccgaggag cggagcagag gcacccaggc agcctgcgcg gagaaattgg atcggcgggg 120
acggcctgca gctcccgcgc gcggggaaag ggaagaagtc ctcccntaca aagcaaattc 180
ncaaacttgg aagaagcant ttacacagga tgtgcagatc tcaatggaag gacacgggaa 240
acgtgaaaaa gcaaggaagt ggggacgcct ccaaaggaac ccagtaattc tccagcaaca 300
gatccccatc caaaagaaat tcaagaaatg tcatatagag aattgtggaa actgatttta 360
accaagatta gagggattca agagacttct gaaaaagaaa gtaaggaaat gtcaacagca 420
attctggata tggttgaggt atttaccaac cagatacaga gttttccaga gcacatggca 480
aatgtggaac tgaagaaatc actggatgaa atccaaagta tactcgaaag cttcaatgat 540
agactagatc aagcagaaaa aaaactctta aaacttaaaa tcttgaagct tttactcaat 600
tcaaatattt aatgggttgt ctctggccat tcangtgaac aaaatctgct gggttaattn 660
ttttttttt tgaaatggga tnttcgcttc tgtcgcccaa gcttggaatt ccattggccg 720
ggaccttngg nttactgnaa gcttccgctt ccaggttnac gccatttttc cttgcttaan 780
cttctn 786

<210> 3531
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3531
gntttnnnnn nnntnttnaa gntcttgcta cttgttcttt ttgcaggatc ccatcgattc 60
gcccgaggag cggagcagag gcacccaggc agcctgcgcg gagaaattgg atcggcgggg 120
acggcctgca gctcccgcgc gcggggaaag ggaagaagtc ctcccntaca aagcaaattc 180
ncaaacttgg aagaagcant ttacacagga tgtgcagatc tcaatggaag gacacgggaa 240
acgtgaaaaa gcaaggaagt ggggacgcct ccaaaggaac ccagtaattc tccagcaaca 300
gatccccatc caaaagaaat tcaagaaatg tcatatagag aattgtggaa actgatttta 360
accaagatta gagggattca agagacttct gaaaaagaaa gtaaggaaat gtcaacagca 420
attctggata tggttgaggt atttaccaac cagatacaga gttttccaga gcacatggca 480
aatgtggaac tgaagaaatc actggatgaa atccaaagta tactcgaaag cttcaatgat 540
agactagatc aagcagaaaa aaaactctta aaacttaaaa tcttgaagct tttactcaat 600
tcaaatattt aatgggttgt ctctggccat tcangtgaac aaaatctgct gggttaattn 660
ttttttttt tgaaatggga tnttcgcttc tgtcgcccaa gcttggaatt ccattggccg 720
ggaccttngg nttactgnaa gcttccgctt ccaggttnac gccatttttc cttgcttaan 780
cttctn 786

<210> 3532
<211> 783

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3532
gnntttnnnn nnnnnntttt aaantacttg ctacttgttc tttttgcagg atcccatcga 60
ttcgcccgag gagcggagca gaggcaccca ggcagcctgc gcggagaaat tggatcggcg 120
gggacggcct gcagctcccg cgcgccgggg aaagggaaga agtcctcccn tacaaagcaa 180
attcacaaac ttggaagaaa cantttacac aggatgtgca gatctcaatg gaaggacacg 240
ggaaacgtga aaaagcaagg aagtgggacg cctccaaagg aacccagtaa ttctccagca 300
acagatcccc atccaaaaga aattcaagaa atgtcatata gagaattgtg gaaactgatt 360
ttaaccaaga ttagagggat tcaagagact tctgaaaaag aaagtaagga aatgtcaaca 420
gcaattctgg atatggttga ggtatttacc aaccagatcc agagttttcc agagcacatg 480
gcaaatgtgg aactgaagaa atcactggat gaaatacaaa gtatactcga aagcttcaat 540
gatagactag atcaagcaga aaaaaaactc tcaaaactta aaatctgaag gcttttactc 600
aattcaaata tttaatgggt tggactctgg ccattcangt gaaccaaaat ctgctgggtt 660
aatttttttt ttttttgana tggaatctng ctnttgtcgc ccagcttgga atcaattgcn 720
ggacctcggn tnattgcaag cttccgcttc caggttcacc cattnttctg ccttancctn 780
ctg 783

<210> 3533
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3533
gnntttnnnn nnnnnntttt aaantacttg ctacttgttc tttttgcagg atcccatcga 60
ttcgcccgag gagcggagca gaggcaccca ggcagcctgc gcggagaaat tggatcggcg 120
gggacggcct gcagctcccg cgcgccgggg aaagggaaga agtcctcccn tacaaagcaa 180
attcacaaac ttggaagaaa cantttacac aggatgtgca gatctcaatg gaaggacacg 240
ggaaacgtga aaaagcaagg aagtgggacg cctccaaagg aacccagtaa ttctccagca 300
acagatcccc atccaaaaga aattcaagaa atgtcatata gagaattgtg gaaactgatt 360
ttaaccaaga ttagagggat tcaagagact tctgaaaaag aaagtaagga aatgtcaaca 420
gcaattctgg atatggttga ggtatttacc aaccagatcc agagttttcc agagcacatg 480
gcaaatgtgg aactgaagaa atcactggat gaaatacaaa gtatactcga aagcttcaat 540
gatagactag atcaagcaga aaaaaaactc tcaaaactta aaatctgaag gcttttactc 600
aattcaaata tttaatgggt tggactctgg ccattcangt gaaccaaaat ctgctgggtt 660
aatttttttt ttttttgana tggaatctng ctnttgtcgc ccagcttgga atcaattgcn 720
ggacctcggn tnattgcaag cttccgcttc caggttcacc cattnttctg ccttancctn 780
ctg 783

<210> 3534
<211> 772
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3534
gnntttnnnn nnncntnttt atnaatacag ctcttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgaggaac caagaaaata tttaaaaatc taagcagtcc tttgctcatt 120
aaaggataaa tcagtagtta acacttttc tacaaagaaa tgggtgtgcc tggatgggtc 180
gtgtaggtga gttttccaag gattatggta acaaatgagt gagacctcta tggagaaaat 240
attgaaggac attaaagaag acctcataaa tggagagaga tatatcatta atggataggg 300
aagcctcaat ggcataagta tgtcagtttc tttcaaaact cacctatgga ttcaatgtga 360
ttccaaacca aatcccacaa ggtctttcct ggaattggaa gccagattct gaaatgtatt 420
tggaaaagta aagaggcagg gttagctatt tcattaacaa agaaggaaca tcaggcaggg 480
agacttgtgt tattattaag gcttattata aattattatt gtgatcaaga tagtgtattt 540
ttggtgtaga gatagttaaa ttgccaatgg attgagccaa atttncaaaa cagacccaca 600
aataaatgaa ctctaattta caacagagac agtactgcag atcatggggg gaaaggatga 660
actattgagg gattggcaac ttttttggta aggctanaca gccttacgtg gggtcacagt 720
gtctgtggaa ntaggcacct ctgctgnggt attgtaagan cactntganc at 772

<210> 3535
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3535
gnnnttttna annnnctngt ttcnngnatc anttccaagc cttngtgcag gatcccatcg 60
attcgaattc ggcacgaggg gattacaggc atgacccacc gcgcccagcc tgtaatttct 120
tatactttgt attttgtact tgtattatgc ttctgaatac gctataatta tttatgtaca 180
tgttttttt cttcaataga ctggtggaac tcttcgaatg tagggactcc tagagctaga 240
tactcaatta ttttttatta aattgaatga cttgaaacta cagatccttt atttaaactt 300
cccaaatttc tgctttatct aggcaactct ttaaattctt ttatctcatg tagatttcaa 360
aggctgaaat aattgagatt ttttagtttg aagaaaagag aactgaggat ttaatgtcat 420
tattattata tttttaatgg actgtttggg agtaagttgc agacattgtt cactttcact 480
cctaaatact taaatatttc ctaaaaacag gacattcttt tttttttta tggagtctgg 540
ctctgtcgtc caggctggag tgcggtggca cgatcttggc ttactgcaag ctccccttc 600
cagattcacg ctgtctcctg cctnactgct cgggangctg angcagggga atcgcttgac 660
ccnggangcg gangttgcan anagcctaaa cgggccattg gactccagct gggtaccaag 720
aaccggacct ccgttggaaa aaaaaaaaaa aaaaactnng cctttanaac tttnggggggc 780
g 781

<210> 3536
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3536

gnntttnnnn nnnnnnnttt taagntactg ctacttgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggtt cttcaaagcc aaccaagaca ggcttagcag ttttagagct 120
tcagaacaaa ttgccaaaag ccagagttgt ttatgctagt gcaactgggt gcttctgaac 180
cacgcaacat ggcctatatg aaccgcttgg catatggggt gaggggtact ccatttagag 240
aattcaagtg attttattca agcagtagaa cggagaggag ttggtgccat ggaaatagtt 300
gctatggata tgaagcttag aggaatgtac attgctcgac aactgagctt tactggagtg 360
accttcaaan ttgaggaagt tcttctttct cagagctacg ttaaaatgta taacaaagct 420
gtcaagctgt nggtcattgn cagagagccg gntcagcaag ctgcagatct gattgatgct 480
gancaacgaa tgaagaagtn catgtggggt cagttctggc tgtcaccaga ggttcttcaa 540
atacttatgc atagcatcca aagttaaaag ggttgtgcac tagctcgaga ggaaatcang 600
aatggaaaat gtgtngtaat tggctgcagt ctcaggagaa gctnnaacat tagaactttn 660
gaagaaggcn ggggagaatt gatganttgg ttcaactgcc aaagtgtgtg cantcactca 720
ttggaaaaca tttnctgctc cagcngggaa aacttatggt tacttggn 768

<210> 3537
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3537
agcnnnnnnn ttnnnnnaat aaactctttg caacttcnct ttttgcagga tcccatcgat 60
tcgcccagga tgaactggtt gcagtggctg ctgctgctgc ggttncgctg agaggacacg 120
agctctatgc ctttccggct gctcatcccg ctcggcctcc tgtgtgcgct gctgcctcag 180
caccatggtg cgccaggtcc cgacggctcc gcgccagatc ccnccactac aggggagcga 240
agtcaaggcc atgttctacc acgcctacga cagctacctg gagaatgcct ttccttcgat 300
gagctgcgac ctctccctgt gacgggcacg acacctgggg cagttttctc tgactctaat 360
tgatgcactg gacaccttgc tgatttgggg aatgtctcag aattncaaag agtggttgaa 420
gtgctccang acagcgtgga ctttgatatt gatgtgaacc ctctgtgttt gaaacaaaca 480
ttcnagtggt aggaggactc ctgtctgctc atctgctctt caagaangct ggggtggaag 540
tagaagctgg atggccctgt tccggcctnt ctgagaatgg ctgaagaagc ggccgaaaac 600
tcttccaacc nttcaaaccc actggcatgc catatggaca gtgaacttac ttnatggggt 660
gaacccagga aaaacccctg tcacctgtcc ggaaggattg ggaccttnat ggtgaattgc 720
cacctgacag ctnntggtga accgtgttca anaan 755

<210> 3538
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3538
gnntttgaaa ncccttttg atncctcttc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgaggttc ttcaaagcca accnagacag gcttagcagt tttagagctt 120
cagaacaaat tgccaaaagc cagagttgtt tatgctagtg caactggtgc ttctgaacca 180
cgcancatgg cctatatgaa ccgcttggca tatggggtga ggggtactcc atttagagaa 240
tcagtgattt tattcaagca gtagaacgga gaggagttgg tgccatggaa atagttgcta 300
tggatatgaa gcttagagga atgtacattg ctcgacaact gagctttact ggagtgacct 360

tcaaaattga ggaagttctt ctttctcaga gctacgttaa aatgtataac aaagctgtca 420
agctgtgggt cattgccaga gagcggtttc agcaagctgc agatctgatt gatgctgagc 480
aacgaatgaa gaagtccatg tggggtcagt tctggtctgc tcaccagagg ttcttcaaat 540
acttatgcat agcatccaaa gttaaaaggg ttgtgcacta gctcgagagg aaatcaagaa 600
tggaaaatgt gttgtaattg gtctgcagtc tacaggagaa ctngacatta gaagctttgg 660
aagaggccgg ggagaattga tgatttgttc actgccaaag ngtgttgcag cactcattga 720
aaacatttcc tgttcanaca ggaaaacttt ntagttacta ga 762

<210> 3539
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3539
gnntttnnnn nnnnnnnttt tatnnntaca gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagac taccccggct acggttcccc catgcctggc agcttggcca 120
tgggcccggt cacgaacaaa acgggcctgg acgcctcgcc cttgcccgca gatacctcct 180
actaccangg ggtgtactcc ggcccattat gaactccttt aagaaagacg acggcttcag 240
cccggtaact ctggcacccc ggatcgagga caagtgagag agcaagtggg ggtcgagact 300
ttggggagac ggtgttgcag agacgcaagg gagaagaaat ccataacacc cccaccccaa 360
caccccccaag acagcagtct tcttacccgc tgcagcccgt ccgtccaaac agagggccac 420
acagataccc cacgttctat ataaggagga aaacgggaaa gaatataaag ttaaaaaaaa 480
gcctccggtt tccactactg tgtagactcc tgcttcttca agcacctgca gattctgatt 540
ttttggtggt gtgtctcctn cattgctgtt gttgcaggga agtcttactt aaaaaaaaaa 600
aaattttgtg agtgactcgg tgtaaaacca tgtagtttaa cagaaccaga nggttgacta 660
ttgttaaaaa caggaaaaaa ataatgtaag gtctgttgta aatgaccaan aaaaaaaaaa 720
aaactcngcc tntaaactnt tntgagtcgt nttcgtaaat ccaan 765

<210> 3540
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3540
nnnnnnnnnt tnnnnctntg aagnnatagc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgagatat ttgtacatgc atatttcaaa gacctgttaa tggtgtccac 120
tttggattct tacatgaaac gattcaagtg gcncattggt aaggcctaan ggaccacgcc 180
aaaangggtt cccaacttat ttaaaggtat ttcaagtacc cttccaaaaa ngttaaatgg 240
catttaagac actttcanga atggttaaac tggcttctaa aacaaaaact ccctaaagtc 300
tggtccctat gcaatatata tttntaatat accatatata ttttttacca taggaatact 360
cacaaaagtg caagccaata ataacattgg caagaaaaag taatacatat ctgctaggtg 420
acaatatcaa acaattcagg ggaataattt tactttaatt aacattaaca gaatttcttt 480
ttccacttca aatcaatcat atttctgtca tctccaacct aagatatttt ttagattgtc 540
tccctattct ttgattcaaa agccaattac agaaactatg aacttgacct aattctggtt 600
tttgacaatt atgagacaga aataaagaaa tgcaagcagt tcttttcttt gccactgacc 660
atttttaat tcatcatcct ctatgatgat ggtgctttca caactgcagc tctnctgtat 720

gtcaaaatca ttctggttnc aggtaaatgg acaaanggag atttgccttc agtgtctaaa 780
aggcaattta cttttcaagc tgncttaatt acctatgggt 820

<210> 3541
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3541
nnnnnnnnnt nnnnnctntg aagcnanagc tcttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggctat gctaaacagc ctttacatgt atggtctggt taaagttcct 120
ttgttccttt tgttttaata aaatgtgtca ctgatttttt agctcaaaaa tcatcactgg 180
taattccaag cccccaaaat atggttaaaa agatttttt tttaatcatg aagagaaaat 240
tagtagcatt ctttctctcc cattatttat tggttttcct cactaatctt tttttttta 300
gtccaaaagc caaaaatatt tatcttggtt ttacatttta atttccattc ttaattgtaa 360
tttttttctt taaataagga aaccaatata atctcatgta taaaaactta aatattttac 420
aagttacata tagcatcatt ctaaaataag aatttttttt gntttctgtc tgcttttttc 480
ttatgtctct tgntgagttt tatattttca gtggttattt ttgcttgngt tagatcatta 540
ttaaaatata tccaatgncc ctttgatact tgngctctgc tgagaatgtc cagtttgcat 600
taaacatccc agtctcatcc ttcaggaatt tgcagtcaat gagaagangg agacaaattt 660
aaagatgagg acagaagcat ctntacagat gaaaattacn taaataaaac attctccatc 720
aacactaaaa aaaaaaaaaa aaaactcgac ctttagaact ntagggn 767

<210> 3542
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3542
ttaagctana gctacttgtt ctttttgcag gatcccatcg attcggtcgg gtctccaacc 60
tcattaagca ccacagggtt cacactggag agaagcccta taagtgcagt gactgtggga 120
aagcatttag tcagagcttc cacccttatt cagcatcggg agaaattcac actgggagaa 180
aaagcctcac gttgtggtaa atggtatgtg ggaaaagccc tttagttata gcttcagtgc 240
tcccgaaagc accagatcat ccacacggga gagaagccgt acagatgcag tgtctgtggg 300
aaggccttca gccacagctc agccctcatt cagcaccagg gcgtgcacac aggcgacaag 360
ccctacgcct gcacgagtgt gggaagacct ttggtcgcag ctccaacctc atccttcacc 420
agcgagtcca cactggagag aagccctatg aatgtactga atgtggaaaa accttcagcc 480
agagctcaac cctcattcag catcagagga ttcataatgg gctgaagccc catgaatgta 540
ccagtgtggt aaagccttca ccgaagctca aatctcattc accaccagaa agttcatact 600
ggggaaaaac cctacacctg tgttgaatgt ggtaagggct tnagccagag ctacacctna 660
ttcagcatca gataatncac acgggcgagc gcccctacaa atgcatgagt gtgggaaagc 720
cttaatcagc gtctgncctn atcancacca gaggattaca ctggg 765

<210> 3543
<211> 734
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3543
gcttgnctnc tnccttttca aatngctngg ctactngttc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagagt ggctggataa aaggatgtgt gggaaagaac tgagttgaaa 120
ttaggagtta gaattttatt ctttggtact aaggaatcat tgaagatttt aaaattaggg 180
ctgacataat cagatttgag tttgggaacc tatagtttgg gactggagga agacaggtgc 240
cagacaccag ttaaaaagct gttattttct aagcagtaga caaaggttta cactgacaat 300
agctgtggag atagagaaaa gctgcgagat ttcagagttt tccaaggtgt aaacaactaa 360
attttgtgat caaaatgata agggccatct aataagctgg ggaatgtggg atctgtcttg 420
gttgagttgg tggattaact ganattaaca gagctggagg aaatgtaaaa agaaaggcag 480
gattgttcat tttgtctttt gtttgtttnt ggggaacagg gtcaaaattt tcattctgcc 540
taangtaggt tttagtcttt ttcaaaacat tctagtaggc aagtctgtag ctgaatcttt 600
ggaagaaagg caaccattag taatattttt tgaagttccc tacctggtta attttttcaa 660
taaaaaactn aggttctcag gttagcnaga atcatggtct taggaagggt ancttgtaag 720
acccaaaatt atnt 734

<210> 3544
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3544
gnntttnnnn nnnnnnnttt taagntactg ctacttgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggtt cttcaaagcc aaccaagaca ggcttagcag ttttagagct 120
tcagaacaaa ttgccaaaag ccagagttgt ttatgctagt gcaactgggt gcttctgaac 180
cacgcaacat ggcctatatg aaccgcttgg catatggggt gaggggtact ccatttagag 240
aattcaagtg attttattca agcagtagaa cggagaggag ttggtgccat ggaaatagtt 300
gctatggata tgaagcttag aggaatgtac attgctcgac aactgagctt tactggagtg 360
accttcaaan ttgaggaagt tcttctttct cagagctacg ttaaaatgta taacaaagct 420
gtcaagctgt nggtcattgn cagagagccg gntcagcaag ctgcagatct gattgatgct 480
gancaacgaa tgaagaagtn catgtggggt cagttctggc tgtcaccaga ggttcttcaa 540
atacttatgc atagcatcca aagttaaaag ggttgtgcac tagctcgaga ggaaatcang 600
aatggaaaat gtgtngtaat tggctgcagt ctcaggagaa gctnnaacat tagaactttn 660
gaagaaggcn ggggagaatt gatganttgg ttcaactgcc aaagtgtgtg cantcactca 720
ttggaaaaca tttnctgctc cagcngggaa aacttatggt tacttggn 768

<210> 3545
<211> 10
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = A,T,C or G

<400> 3545
nnnnnnnnnn 10

<210> 3546
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(936)
<223> n = A,T,C or G

<400> 3546
ttangtgnac nccctggana accacttgnt ttttntgcag gatcccatcg attcgagnaa 60
atngtcctgc antcctatat gcngaatttt ntnnatatct tgacccaaaa taactggggt 120
aaaatatnta gtngaaacct tgtatatatt ataaacttag ctttgtaata ttaagtatga 180
aagcagcana natagatagt ctcagaagaa gaagaaaatg tataaatnct tggggagagc 240
tgtgataaan ngactagact tacctttgag ttcctagccg atccctacct gacagctttc 300
ccagctggga aaaatctgct tgggcaaggg aaaggggaa tatgattatt ggangaactt 360
cccaccttat agggactggc aagaggggat acatgaccag ggaatgaacc ataaaaggga 420
gagaaattgg acatttaaat tttacangga attaagatga gatctaagna taatttgaaa 480
gattttgaaa naaagagcca aatccgagga aagatgtaag gaaagtgatg gggangggaa 540
aaaaaattat gggatggtna agactttcta aagttaatgg ggggaggaaa tccaanggac 600
caccaagggt aaggtttaaa gaaggggaaa gganccaaag gaattttaan ggaacccatg 660
gttttttcan cccccagaac caggggagaa anccaaangg gaaaggaaag ganccggaan 720
ggcttggagc ccnccagggg gggcttncac cgnccctggt taattccccc accccncttt 780
ttgggggaag ggcccaaang gccggggtgg aatccancgn angggcccng ggagaaatng 840
gaccanccca tncccngggc ctaaaccacc gggggnaaaa ccccccctct tnttacctta 900
aaaaaatccc caaaaaaaaa acccgccang gggcat 936

<210> 3547
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3547
tattatacan ctacttgttt tttttgcngg atcccatcga ttcgaattcg gcacgagatt 60
atacagttcc ccacattgaa gttgggaaga agatatatgg agagcagttg aagacataag 120
gggctctggg gaacagcata gttttgcttt aattctccag cttgttctca gtaagggtgg 180
aaggagaaag agaggaagta tcgatttac agacgtcaca tcgtactgct aagaacagac 240
agaaaacttg ttgtaataac ccgtacacac tgtaggagaa ctaaggaggc ccctggtgta 300
gcaatcattt tcccaaggat gacggattgt gaggcaggaa ggtgtgaaaa gaggcagtca 360
tttatataat tttggggttt ccgctgagga aacctgagtg aactcacttc agatgcattt 420
ggaatatttt aataaaaaat acttgatttt ggctgctgca ggaactgctg gaagaaggaa 480
acaatcctag aattggcata aaaacacact gactcattac tcctctttgt tactattagg 540
catcagagat acatgttttg ttgattttag ttacagaaat gagacaaagt tgaatctgaa 600
tacattggct tncttgttca aggagctcct cttggataca atagctattt catgaaactt 660
ctttagagaa caaccatgat acttccaaca agctatttta gaaacaaaaa ttatgctgga 720
tctaattact cctaaaatgg tcattttcaa tgaatattgc actgattct 769

<210> 3548
<211> 883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(883)
<223> n = A,T,C or G

<400> 3548
gnnnnagnna gngnnnttnn nccntnttaa cctttnacan ctcttgnctt ttagcangat 60
cccatcgatt cgaattcggc acgagattta atcttccata agatntttcc tcagtgtctt 120
ttacttcttc tcctgccatc agattcttac cttgattgaa aagccatgtt aagtgcaagg 180
caaattcttt acgtctttat acagagatta acaatctctg ggtgatggga gcgttaagtg 240
attaaccttt gtcactagta natgtgggag gttagaaaag tgctgccctt tttgggtctc 300
agtccctcag ttctgcaatt acaggcagcc tcattattng gncaaatcta tgtaaaattg 360
atancncata tccaattaaa aaggatggtn agnggcaaaa aaaaaagaga gagagattga 420
ttatnaccta gtccttgata gcccaacagg gngaatatag tccataataa ttggattggn 480
cattggataa taactaaaac cntaattgga ttgtccgaac acaaatatta agcttgaggg 540
gatggatacc ccatcttcca tggacgtgga ttattactga tggcatggcc tatggcaaaa 600
atatctcatc tgnggcataa gccccaaact aaggtncccg ccaggaatta aattnaccaa 660
nnnngccctc cgagncctct taaaaaccta ttagnggagg tccggtantt acccgtagga 720
atncccggac ccttggaatn aaggaatacc catttggatt ggaaattttn gggaccaaaa 780
ncccnccaaa cctttagnaa atggcccngt nggnaaaaaa aaaaaanggc ctttttaaat 840
tttgggggga aaaaaatttt ggggggnaan ggccctattt tgg 883

<210> 3549
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3549
actattgaca cctcttgttc tttttgcagg atcccatcga ttcgctccct ctgcttcctc 60
aaacccaggc ttcgctgcct ctgcggagtt cttacctgtc tctcctttcc acccgggttc 120
cctggaggaa gctaaactca gaccaaggcc ctgggctccc caggagttaa aagggaatac 180
gctgtcccaa gattctagaa tgaagagtca acgtagcccg agtggcttaa acctcctgtc 240
cttaaatgca agaaatgttt tctatcgagc cctggacagg tgtctctgct ggcctggggt 300
tttcaacagg tcatgcctgc ctcagacccc agggacaaat gttcttccag ctctaactca 360
ttctatgctt taagcttttg acctatcttt gttttcccag tgccacacca aatgctgcct 420
ggggatctct ctttcttcct gagttcccat ataagaagcc ccccatttaa gaattcagtt 480
ggaatgggtt gtatttcaaa agttgctttg caagttagtt atttggattt caagttgcat 540
tttaccaggg taacaatatt ataatgattg gttaccttcc cagagcaatc cagaaatgcc 600
cacataaccc atgtcacacc tgaaccaccc tgagttcttc tatccttgaa cctcttaagc 660
tttnccctaa ctctaacagg tctcatggtc cactcaaggt gtttcatgct tctcaantac 720
gtccctttcc actgntgtct accctntntc caaacacaac acaaaaca 768

<210> 3550
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3550
tttaaatcta tatacangct acttgttctt tttgcaggat cccatcgatt cgtaacagac 60
taaattttct ctgtaagagg ttatttccta gatagttaat atttttggta ctactttgtg 120
ctgtatttta taactattaa ggaatgttgc agagaaatgc tatcaattgt taaaattttg 180
ccatgaatac agcagcctca ctgaattctc ttagtagttc taatagcttg ccatttgatt 240
ctaacaggtt ttctatgtaa aagatggtgt catcttcaaa caatgatagt ttcatttctt 300
ctctttcacc tcttaccttc cttgtgtttc tttagcattg ggcaggtcct tcagggatat 360
gtgaaacagt ggcagtaaca accagacatc ctggcctctt tgtttttttt tccatgatga 420
agtctcactc cgttgcccag ctggagtgca gtggcacgat ctcggctcac tgcagcctcc 480
acctcccggc ttcaagtgat tctcctgctc aacccccccaa gtacttggga ttacaggtcc 540
tgccactaca cccgactaat ttttgtactt ttagtaaaga cagggtttca ccatgttggc 600
cagctggttg agaattcctg acctncagtg atccacctgc ctcgtcctct ctaagttctt 660
ggattacaag tgtgagccac cacgcctgcc attgnggcct ctttattggt cttcttgaaa 720
atgccctgaa gtgtcttaat acacataatg ttgctgtaaa ncaatgatt 769

<210> 3551
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3551
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ggtcagggag gaaagccaag atggaaaatg gatgggaatg aatgaggaac atgatgtggg 120
ttggggtgtc aattcatggt taatacaaca tgtgtggctc agtataacca gattgtcata 180
agaagctcag gcagctctcc ccctctgttg cctggggctt ttcgcagtta caataaaagt 240
ggaaagatga agaataaggg caagcagaag acacacacat ttgcctgttt ccctcttttt 300
gtccagattg agtagatggg aggcagggct gttacccatg atggtgtttc ataccagagt 360
caatctacta gtttgcttgg ttttataggc gtgattccca aattttgaat ctgaagttag 420
ctgtcagttt aaattcagag ggtccgcagt tgtttttcag gtttttcttg attctgcctt 480
tggaaaccag gaagatgttg aatttacttt tcatctgaca atattgcaca tctgtgaacc 540
caactgatct gaaagtgttt acctcttaac tctgtgaagt tagctggtta ttctggatgg 600
ctgggacaat ggtgaggacc gttataatgg ttactctcac ctgtgctcca gacgctccac 660
ttggtgctag aaatcacagt gaacaaacat ggttcttgcc tccacacact tgcagttant 720
agggcagact gacgacatta aaaagatcca tcggggtggt ataat 765

<210> 3552
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3552

ttaaaccttt tgacacccta cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggtgggg acgagccctc cccatcctga gtccacaggg agatccacag ctcacggagc 120
ctggccgcgg acccctccca cccctgcctt gccggcccct gcacatttag gatatgctcc 180
tgggtgggga ctgggctgtg cccagggcct ctgtccccca ggatgtcttg tggtgcgggt 240
cggccgttct gccccccagg gcacccccctg ttgtaggcac tggctaggga ggggcaggcc 300
tccttctgcc cctcgagaca ctcttgggag atgcattttc cgtctggctc acaggggggag 360
ggtgaggctt tgcaccccag cccctgccca agccactgtg agggtgggtg ctggctgagc 420
ccccggggca acangagcca agcangtgat gtctttgttc tcggctccca cagcagaacc 480
aggtgagggg gcgcctgcca nggccagacc caagtggggc agcctgaacc tgcttccccct 540
gtggccggca tgccccgatc tttacacact ggtgaccctg aaagaagaag gaggaaggaa 600
ccttgcnggg gtgtctgaag gccgcactgt cagcttggcc ggtccaaacc tgtngcttgg 660
aacttggggt ctgtttacct aataaaagtn cccacaagtg ccctnantta aaaaaaaaaa 720
nnnnnnnnnn nntnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt 780
ntnnnnttt 789

<210> 3553
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3553
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gataacactg agaaaggagt atggtatact tggtttgaac tgtgtgctac actaccaggc 120
cccttccaca ttatactact aatttattta aaatagatag gtatcacact gagaggatat 180
aaaaaaaatt tctgcctctt cattttgtt tcttgtttga acagaaaaaa tgaccaaaat 240
attgggagta cttctaagga aaaggcaaca cacattccag ttaacacttg gatgtgaaaa 300
tatcaatgaa tattagaatt tataagtcaa actggctctg ctcgctgatt gcaattttta 360
gttacattca ctattttgtg ctaaatttaa gtcattggta tacgactggc cagagtcctt 420
ggttttaaac attactgaga actttatata tactcttaat gggtatttta tataatgtcg 480
aatgaaactt ttatttttag atttttaaaa aatattttgc actttggact taattttaca 540
ctaaattgta tcagccagcc taagggcatt atgctaaatg taaatctagt tcttggttaa 600
gcttttattg aaagatangt ggtgctgtaa gttaatatat tgtagtgaaa gtgtgggaga 660
aaagttaaat tggcacttaa atcttanttt tcaaggaaaa cgtgtcccgc acatactgca 720
ttatgatgga cttgtctcan gtgaagtgaa gaagtgaaag aatcaagtgt atggc 775

<210> 3554
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 3554
ttnnnannat gnnaaaggng cagccncttt gnaacccttg gtaaagcccc ttgttctttt 60
tgcagatccc atcgattcga attcggcacg agtatctatt ggcagcaaag antntttatt 120
ggtatactac aatatgattt aactgttatt ttggggataa atagtagaaa aaagtgaaac 180
agaatgaagg caggtgtttn ttattctaat gatggaataa tacagagata ctggacgatc 240
tctagcagtt aattattgtg acccatataa aattatacag gtcacagtat aattctctat 300

taccgntttt acaccagtaa gtcttagata aactaagcat gcttatgaat tatgtataca 360
gttagaatgc attatttta cagaggaaca attgcttgta tgtactaaca ctgnactctt 420
ggcttgcctc aagttctact cattattnta tataaaatac tattaggctg ggcacggtgg 480
ctcacgccta taatcccagc acttttggga ggtggangct ggcggattac ttgaaggcca 540
ggagttcgag accaccttgg ccaaaaatgg ggaaaccccn atctctataa aaaatacana 600
aaattanccc angtgtcatg gataccatgc ctgnaaatcc ancttctttg ggaaggctga 660
aggcacnggg aatcggcttt gggccccggg gaancacaag tttgcaaatg gagcccaaga 720
nccatgccac ttggacccna aancctgggg tggacaagag tgcaacactt gnntcanaaa 780
aaccaaaaca aaaaacatca gantantggn ttggngaagc cnanttgc 828

<210> 3555
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 3555
gcnnnnnctn gggaggggng nttgnggctt nnccctttct caaaatanct ggacntcnna 60
ctcgccnaaa canataggnc ggggcgcatt acatgattct gncttaacga agatagaagc 120
atnttattgc ataagttttc ttctgtgtgt gggaatcata tgtgggtgta tatatgttta 180
aggggtatgc atccgggtag acgtttgtgt gtggacatgt gtgtacaggt atataagtac 240
atgtgtcata gccttggtac aggtctcata gccttgcagc actgtgttcc tggcgggagt 300
ggcatcngtc tgcatgtctg aaaatgccac gtgtgcattc tgctgatcac caaggtnngn 360
ggctgtaggc atcctctctt cantgcgtca gaagtctgaa gaacatgtag cngcaccggg 420
gcgncatgag aaagnaacnt gtaggattta tnaactcatt tcttgaagcc actcactgtn 480
tgnttttaag naccaannnc gattgcccat tgccaantac agaanagact tcntttggtg 540
agtacangna tgagngactt ctctccnnng gncnnnctat aatgaactnt cngaatcctg 600
acttcncgca ncagtcncnc ggactcccct ganctgggct nnttccgctc cccacannga 660
aatnangcnn tnccccattc cccaaangnc gnccccccnn ctnccncccc nnccncccac 720
ccncccnccnc ccnccccccc cccnnccccnc cancccnnnn cnccngcccn ncncccnccn 780
ct 782

<210> 3556
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3556
ttanatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagcag 60
cgcccagctc cgaggttgga gcagccccgc cgggcaactt gaatttctgc aaacgaacac 120
agcaccggga gctctgcaga cctgtgtcgg cgcggaaccc ggactgagac atgccttttg 180
aacttctcag atagaggaac cccagtgaag actgatcagt tcttacaatt ctcaaagcat 240
ggcccataaa tatgtgggtt tgcagtatca cggatcagtg acatttgagg atgtggccat 300
agccttctcc cagcaggagt gggagagtct ggactcttcc cagaggggct tgtacagaga 360
tgtgatgttg gagaactaca ggaacttggt gtcaatggca ggacattccc gttctaaacc 420
acatgtgatc gccttattgg aacaatggaa agagcctgaa gtgacagtga ggaaagatgg 480
aagaagatgg tgcacaggat aagaaagctc cagtctacaa acaaaacatg ccagaagatt 540

tttaggcgat gatgccacct gcacatggaa ccaaaagatt tgcagttgga agatgataca 600
atcggctgta aagaaatgcc cacctctgaa aactgtccat cttttgctct acatcagaaa 660
ataagtagac agaaaccacg tgaatgtcag gaatatggaa agacccttg tcaagactca 720
aacctgttca catgaaagaa tncatagtag tgaa 754

<210> 3557
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3557
tccnnttcta atgcttggct actngttctt tntgcaggat cccatcgatt cgcccaaaac 60
catttattga agagacaacc ctttcctcat tgtttgcttt tggcattctt gtcaaagatc 120
agttgtccat aaatatgtgg ctatatttct gggatctctc ttttgttccc ttggtctaca 180
tgtctgtttt taatgggagt atcatactgt ttctattact gtaattttga tgtatatttt 240
gaaatcaaat agtatgatgc tgctagctcc attctttatg cttgagagtg ctttggctat 300
ttagggtctt ttctagttcc atacaaattt taggtttatt tttatgcttc tgtaaaaaga 360
ggccattgga attttagtag agattgcatt gaatctttag atctctttgg atagtattga 420
catattaatg attctaattt cttgaatcta tgaacatgag atatctttcc gttcatgtgt 480
gtattcaaca aattcattat tattattatt antattatga ttattatcat tattattgag 540
acagagtctc aatctgtcac gcaggctgga gtgcacgatt tcggtttact gcaacctctg 600
cctccggctt caagtgattc tcttgcctca ngctcccaag tagctgggat tataggcacg 660
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gccaagntgg gtctngagcc tttagaacta n 751

<210> 3558
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3558
agtnnttnnt ttttgactcc ttgctggnct cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggccaca tagcaatggt ntaactgcag gactcaggtc cacttgccca 120
gcagctggca gggaagggcc atgaggcagt agagtcccta caggccaaga aactgagcag 180
aacccatgcc tccagctcac cagctgcatt gaagccccca gctggcaggg agactgctgt 240
gaatggacag ggtgagctca tccccttgaa gaacattgag ggagaattgt caagtgctat 300
tcacatgacc aaggatgcca ccaaggaggc tctacatgcc accatggacc tcaccaagga 360
agctgtgtcc ctgactaagg atgccttcag tttgggcaga gatcgaatga cctccaccat 420
gcacaagatg ttgtccctgc ccccagccaa agtctggtcc agaatctgtt ccacaggatc 480
tctttcaaat gtctcagata atgctggtgt tcaagggagc cctcttgtga ataattatgg 540
ccaggggtca ccagcagcca acagttcaat ttcacccagg ccctggaccg ccaaacagct 600
actcanctgc ttaactggcc cacaagtaca gaccagagac aaagcaagag aagaagcaga 660
gactgtttgg cccgggcccg agaagaagct tgctggcnaa ggggacgttc caacgaagag 720
accactgtcc ttcgagcagg anttaca 747

<210> 3559

<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3559
gggnttnnnc cctttgaaan cttttataca agctacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg gttgttctag gtagtttcat gcggatgctg acctaaacta 120
gaatgtagaa attagtagga aagtgaatgc ccactaggtg gaaacctgaa agcacgggga 180
cctgcgatct tgtttactgt tatattcctg ctgcgcagct cagggtctct atgtaaaaaa 240
tgagtgaatt tattttctag ctggtgccta caaaataatc tgcaatgtat ccatactggt 300
ttattaatgg taacaaatga accgtactaa tatgagataa taggggaaac tagatatgga 360
gtgtatggga attctatctt tactatttct ggaaacctaa aactactcta aaatagaagg 420
tttatgtttt gaaagcactc tgctcattgc gctcttgtct gaaaagtgaa gcctggcctc 480
aagccacttt gagtatttct cttctgccag ttaattatct taccattgcc tctcagtgat 540
attaagagaa aacccatcct taacattttt cattactttt taggttcaaa atgagcctgt 600
ttggaacaac ctcaggtttt ggaaccagtg ggaccagcat gtttggcagt gcaactacag 660
acaatcacaa tcccatgaag gtccacgaaa agctttctgg ggcttgtagg aagaagtttg 720
ggcagagttt cttccatcaa nggccagaac ccgagatgac cttgggaacc tcctttan 778

<210> 3560
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3560
ttgaancttt atacagctct tgttntttnt gcaggatccc tcgattcgag aaagaaaaag 60
aaaaaagcca tatggcatag aaaaaaaaaa ttctgtcttt ggaggaaaaa ggaaaaaagt 120
cccaggtttg aagccagttg tggcctctta ctaggtatat tattgagtct ttcagctctg 180
tttcaaaatc tagaaaatga gttcagtatt acctgtttaa atttgtgaat aacgcattga 240
tgtacaccct ggattcccta aaactgtctt aactgcgtga gtccagtgga ctcagtgcat 300
gagtctaaat ccttagactt ctatcagacc ttctccccta gcagtttcat ttgctcttta 360
aatacaaaca ttggacactc atgcagaacc acagaaatca tgtagacaaa ctagaaatta 420
tcgtgcactc acaaattata gcttccatta ttaggtaata catgctaaac cctagcaaac 480
attaagtacg tgaactccta ttactaaata gtaatcactc aagtaaactg gacaaaatgt 540
cttacggagg gtcacatctc atgtgaaatt aaaccatgtt gcaggcagtg ctacacctga 600
gattttacac aggtatttac atttcttttg cctttgtggc aatatgtgcc tgttaagata 660
ggctattaga gaactgggca atgagnaacc ctacaccnta aagtacaagg aagnnatgtg 720
ccatatcagc agatttttg cttatttagt tagtaatgaa tcctcaaact ct 772

<210> 3561
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(771)
<223> n = A,T,C or G

<400> 3561
ggtgnttnnc cttgaanttn tatacagcta ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagctcagct catgggaatn tgcctctcac tggtcctcac tgggtttatc 120
ccagtgacca attctaggat gaccagaaga atgattccac tgggcttggg agtgtttgct 180
ggtacctcta atctctgngt anagttnatg gtacctgtgt gctctgtggc taggtcctca 240
gagtcagtcc ctgggcaggt actgtcagcc ttcagttttc cccacagact gtgttcctgg 300
gcctgaatcg ctcagactac atgttccagc gcagcgcaaa tggctcccca ncctgaaaca 360
gatcgaaatc aacaccatct ctgccagctt tgggggcctg gcctcccgga ccccanctgt 420
gcaccggtgg gtcccctggg cagnccccgg catacctgtg gggtgacatg ctgatgggtg 480
tacagtcact ggctaggcca gggaactcca gctatgattg tgctttnctg ggccccgggt 540
cacatgttgc ccctgnccac cccgacagca gttnncactt gtaatgagat ccttggtatg 600
tcaaggagaa aaaggacctc atagctcatc tagtgctgtc ctccattgaa caggcagaag 660
gaacaatatc ttgaaaaccc caaaatanag gaaatgcaag ggacttctgg cttggnggct 720
gngcctggta catcatttct accagcattg atgctccagg ttcaatgatt t 771

<210> 3562
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 3562
ggnnnntnnn ccctttgaaa acccttttata caagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga gggacaaaca gtggcaaaac aacactggct aagaatttgc 120
agaaacacct cccaaattgc agtgtcatat ctcaggatga tttcttcaag ccagagtctg 180
agatagagac agataaaaat ggatttttgc agtacgatgt gcttgaagca cttaacatgg 240
aaaaaatgat gtcagccatt tcctgctgga tggaaagcgc aagacactct gtggtatcaa 300
cagaccagga aagtgctgag gaaattccca ttttaatcat cgaaggtttt cttcttttta 360
attataagcc ccttgacact atatggaata gaagctattt cctgactatt ccatatgaag 420
aatgtaaaag gaggaggagt acaagggtct atcagcctcc agactctccg ggatactttg 480
atggccatgt gtggcccatg tatctaaagt acagacaaga aatgcaggac atcacatggg 540
aagttgtgta cctggatgga acaaaatctg aagaggacct ctttttgcaa gtatatgaag 600
atctaataca agaactagca aagcaaaagt gtttgcaagt gacagcataa agacngaaca 660
caacaaatcc ttnctgaagt gaattaggaa actccnagga gtaatttaag accttnacca 720
agatncatgt atactgnggt acaatgacag ccatggttca tatggttgat ttttattgcn 780
catggt 786

<210> 3563
<211> 838
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(838)
<223> n = A,T,C or G

<400> 3563
gnnagnnngn nnnttnnncc naccggancc acgtgaaccc tttgttanaa cccctngnnc 60

ttncgcaggg atcccatcga ttcgaattcg gcacgcaggg cagcncttnt atctngtnnt 120
ttaaactctg gccngccntt cctaatnctc agaccaacaa gtagtgtttt cccattcgga 180
tcgcttanca naaaatgagg agagtcttgt ggccatcanc tttattgnaa gccgaaccac 240
tgtnagcaaa aataccaagg agaggnctga tcccactntt gnaanaaaaa gaaccatgag 300
ggccctgcnn aatncaactg gaccntgggg atactcactg aagaaggtgn atctatttag 360
gaatgcaaat tgtcttncta ccccagacnc cccaacaana aanacttggg gtgganggtg 420
anatatnnca gccaagnaan aacngtttgc atntntcctt nttggttnga caaagacntg 480
ntnccanatn gtcctcaaag gtacataaat acanacatat gatatttgtg tatatataaa 540
cacatatgtn tagtaanatc cnncatttac cttggggnga gacttgaaga aacnccagcc 600
ttctttctag agagcctctg cttctggtat tnacctgtca caaaagccca tacctggttg 660
tcaaaccctt tccttgtaac tganggagng catnttacga atatgggngt agagtaaagt 720
agccaagtgc ntatnggaaa atttaagccn gaaaaannna attannaaaa attccnaaaa 780
cagcccaata atctnnaggn tggggaaann aaaaacccgn nntnggttnt tttgtntt 838

<210> 3564
<211> 676
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(676)
<223> n = A,T,C or G

<400> 3564
aacctnttta cantcactgg tcttttgcag gatcccatcg attcngtgaa gtggagatat 60
gtgaatgacc ttgntctttt atttgaaata tattttccta tgtcttcatt ttccttcact 120
gtctgtggtg atttatgtgc atcagataag acaaccacct ctcccagnct cgtcagactg 180
gtctcataca ggagaaagat ctcaacaatg tatccngcca gagattttaa gggcttctnc 240
aatctcaaaa acagactgct atatctcctt tttgtggccc actggagcnt ataatgtgnt 300
atgtcctgtc agaaccctca tgaatagnat ggtaggagca agactcttta gacatanctg 360
aaaagcttac ttggtggatg tgtgtatgca gntccttcta tcttcanggn gaagttganc 420
aaagatgttt atctcccact attctgtcta acccgaaaga natatttgtc tccattcagc 480
tgcccctctg tcctggggag aaagtagngg aaggggccca tctgtgtcac ctcttgnntc 540
tgnggctatc tctcantggn tctacactta tanctaatna ttttcaagnt ctgtgcggtg 600
gtgcctcaaa cagngtgaat atccatnaca ggtgggggggg cncgaagggt ancataactc 660
ctcatatgan anntat 676

<210> 3565
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3565
tntnncnntt tgaaaccttt tatacaagct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acggaggcca tacaagagac tccagatatg cagctagaga aacttaagga 120
aggtgagctt atcaacgtgc attcagaaag tggttatgat tacaagaatg aagatatccc 180
agaggaattg acattgtcag aaaacttcac attaatcgaa ttctcagaga tgtctcacaa 240
cattgaaagc acaaaagatg aaatgttaga agctggtgca cagtaaggat aaaggagtat 300
ggcagttcac caaggcatgg aaaagatgcc tgctccatat tgttaagtta tacagtgaga 360
agaaggaggc gaacatagtt cagactactc ttggtaggtt tttaccaaaa aataaaatat 420

tttaagctca atatttttga cattgcaatg tactttaaaa gatgctggga ttaaaggcgt 480
gagccaccgt acctggccct tggtggaatc tttagggttt tctattcata catataaaat 540
catatcattg gcaaacagag ataatttttac ttcctccttt ccaatttgga tgccttagat 600
ttcttttnct tgcctaactg ntctgtctag aactcccagc ctatgctgaa tagagtggca 660
agaacaagca tttgccttgt tnctaacctt agaaaaaaaa tncttcaccn tttaccattg 720
angatgatgt ttgctgttag tttttcataa atgatctata tcangctgaa taaattctat 780
t 781

<210> 3566
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3566
tatagtaata caagctactt gttctttttg caggatccca tcgattcggg caactgtaag 60
aaattcttct ttcaaggcag ttgtcttcgt atctatcatt ttaccatacc tggttaaaac 120
agagtcccag gtacatatta aagcaagcct tcatacatgt tggccctcta tctaaaagcc 180
tcttcccact cctttccctt tacctggtaa tccctgttat tccctagatg cctgctttaa 240
agagatttcc tttggtaaat caccctgaac cctcagacta gtccagacct ctctttgata 300
ttttcctctt gacattcagc atttatccca attgaaagta ataattacat ttgtgtagtt 360
attagattat ctgtcttcct tagtaaaaag taagcttatg ggctgggtgc catggctcat 420
acttataatc ccagcacact gggaggctga ggcaggagga tcacttgacc ccaggagttt 480
gaaaccatcc tgggcaacac agaaagatgc catcaatacc aaaaaaagga aattaggtga 540
gtgttaaggt gcaccagcca ctctggaggc tgangtggga ggatcacttg agcccgggan 600
gtgggaggat cacttgagcc cgggaagtgg gaggatcact tgagcccagg aggtcgaact 660
gtagtgagct gtgatcatgc cactgcctnc acctgggcaa cagantgaga ccgtgcctca 720
aaaaaaaaaa aaaaaaactc gagcctntaa actatagtga gc 762

<210> 3567
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3567
tgaaaacctt ntttacaanc tacttgttct ttttgcaggg atcccatcga ttcgaattcg 60
gcacgagggg aaagaaaata actttgtgaa gccagtgtat tctgttttta aaactgtgcc 120
tgcagtgcaa tactccttct ggtgtatttt atccattatt tcacttgctg gtcgtcattt 180
cacagccagc tttgacatgc ccgtgaggac aggagccgcc gcttcagttg tcactgcaga 240
gccatcgtat gtcagttgca atttccatct gaagctatgt ctttgacttc actttaagca 300
gaaaattttg taccctggtg gtcgagtctt cccttaaaaa ttgttaaatc atttggcttt 360
aatggttcaa taatttgggg tggcttcatg gtgtttcttt tcttcccagt ttaaaaaaaa 420
aacttttttaa gcgtaaaatc tttaaggggt acacatttat aagtctggct aatttctaat 480
atgctaatta aacatttccc attttaaggt tatatacagt gaggctcttc aggacaatta 540
ttttctgggt tgattgggca tatgtttgcc cgtgtaaaca cggatatgat aaagtgtcag 600
taacaatgga aaaggtccca gaggcattag gcatctaaga ngatgccctc agaaacgtat 660
tctggcttga tttgtgttat taacttcaga agaacctttc aaatgtccca atatcgttct 720

tagtgctttg ggaaaaaata tttaacacac tggtaataaa tttgtatcag aag 773

<210> 3568
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 3568
tttgaaccct ttgaaaccna tatacaatct acttgttctt tttgcaggga tcccatcgat 60
tcgaattcgg cacgagatna tagntttatc catacaatat tgcgattgtc tctggtcttg 120
ttgctttcct gcactagatt gtgagcacca tgacattagg gatcatatct ttncattgta 180
ctgttancta cacataacan actgcatgct atacgttggn aaatgttaan tnaatgaata 240
tcttcncagg ctagcttttt tgatcgcccc aacgcctagg ctagttttct ctcatcctgc 300
ctcanantgc tgtggtgatg catcccgcta gcacctgcag agacancccn gntggtaatg 360
ttggccacag nnccagctnt gctgccagtg cccatcgatg nggacatgga ggcggtccta 420
gcttcaagct gacggtgctc ccctgctgat acanaaactc ctgattccaa agctcattat 480
tttgttagnt ttatgccctg tgtctntgta tcaccacccc catngntaaa gcctggtnnt 540
tatgtctgga gaangaaggc aatnggaggg aggaggccta atgngctcaa aatcacccct 600
tttttntatg aaagtgcctc aaactcattt accttggctc tcanancctg aggaatgact 660
nnttttcttg cnanactctt tggttnctca tttaaaatgg acccctgggg gggaatttct 720
tttcttcaat ctgacagaan ctaaattttg nccctgttnt caagggnaan caccaactgg 780
ggcttntact ngggg 795

<210> 3569
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

<400> 3569
gntnnccntt tgaaaccttt tatacaatct acttgttctt tttgcaggat cccatcgatt 60
cgctcagatg ccagtcacaa gtcccaggcc tctcatactt ctgaccgact ggctacaaat 120
caggggttcc cactacctcc tcagattaga taatttgctg gataaaactc aggaaacatt 180
attattaagg gcacaactca gcaacagccc agtagaagag gtgcacggag caagcaccgg 240
ggggacgtgg agtttctgtg ccctcctagg gtggcctcct gcccagctca cccttgtgtg 300
tgcaaggtcc ccgaatcttg tagttagagt ttctgtagaa ctcaatctct aatccctttcc 360
ttttctcttc atttctcttc aggataaggg accgggggggt cggtgctgaa agttccacac 420
tctangcact gggtctcttg ggtgaccagc cccatccaga ngccatctag gagggctgct 480
tttaatcaca gcgttagcat taacagttgt gattgaaang ggcttgtttt gaacaataaa 540
aaatatttct atctcaggaa atcccaaaga tataggaact gtgccaggaa ctagagacaa 600
agatgaaata tgtcttatat cacatttctt ttgaattggt taaagtgcca ataagacaac 660
aaaaaatatat attaacccnt ttatataaca cttggggtta ggtggttata aaataatcta 720
aaagatgaat ttaaaagtat tgggggagga tgtacatagg ttatantgcc aaatacctat 780
gacgttttat ataagggact t 801

<210> 3570
<211> 735

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3570
ttnaanncnt ttgaaaccnt ttttacaacc tacttgttct ttttgcaggg atcccatcga 60
ttcgaattcg gcacgaggtc tcttggtgcg ctttnatctg tcctctaaag cacaccctgc 120
ccctccctcc tctgtcctca tgccgccttg tgcgtggtcc ccagctgttg gtgtcagggc 180
aaggacaaag acccgngaca cctcangtct gagtcctggt gattgccagg ccctggggaa 240
tgggggaaga tgtggtcaga ggctnttctt gtgaccggng caagatgtnt cttntgctgg 300
accggcacct tttgtttgtn ccattggtgg cagatgtgag cnacatcagg cgctttctca 360
gtgnatttca cgagccacan gtggggctna tccaagccgn ccagcanctg ctgtgtgatg 420
agcaagcccc acagaggnan aagctgctgg ctgacctcct gcacaacgtc anccataaca 480
tngcggacga gaccnngnct gatgaccccc gtggnttgaa gcttggagtt ncgatttcan 540
agcangtntg gctatctgan atacanctgt nagagccgga tcccgagtta cctgagggan 600
gtgagctcct accntccacg gtgggtgcgg agnctaagag gaattctgcg gtcttgctca 660
ttgcagagct ccgtcatcat catgcnctat tcaaaagacc aagcggagcg cttgcacgaa 720
gtgttctgca ggtct 735

<210> 3571
<211> 766
<212> DNA
<213> Homo sapiens

<400> 3571
tatattttac aagctacttg ttctttttgc agggatccca tcgattcgaa ttcggcacga 60
gacagatcct ccctctgcag atggtgagca gtttcccact cggctctttt gattgttctg 120
caatttttcaa tgaccatggc acaaatttat ttaaagctga aatacttcac ttctattaaa 180
gcagttggct gggtatattg tttttgctga aattattact ctaggaggta aatctaggct 240
ttatttacta ctttgggaaa gtacatttaa aggccatgaa tcagaaacta ggttacaaac 300
gttaagactc aaaggatctg tatactgagg cctatatttc catgaagtgg ttctctactc 360
tcagcaaatc tagtattgct gaatgttgta gcattataag caggaaaatc atcttactgc 420
acataatcta tccccacaga aacctatgac atttaggtat tatgcaggca tgtgtcttca 480
gttggctgtc tccttatttt aaccatgtgt ccctataaat acttcagatc caaaaggttt 540
tttccacact tcgttataaa aaagtactaa ctagcacata tctgcatttt attccgggat 600
ccacatctcc aaaaagttga ttataaagtt tacagcaagc atagaattca aaatttcctt 660
ttttttctaa atgaccaaca atacaaactt tctcatgtac acacacatga gaacacacat 720
gcatgtcata cacacatcat gcattcatca cacaaagcaa gcacag 766

<210> 3572
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3572
tgaacnttga aaccttntta caactacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gttggccttt tcnattcaga tgtttncntg caggangtgc ctgngatnna 120

ntttggnttg ntnacatgag tttnatatgc atgcgcattt ttggatgcca aacacatagg 180
cagatgaaac taagaagcca gatgctagag atcgcagngc gatgaattga aactagccta 240
actggctcca ctgttggagt cattngctca aactactcca aacttttgtt tgntctactg 300
aaaacattan tnggaaaggt acagngntaa tttanggcng ggaagcctnn atcncgtgag 360
agtnaggtct ntntatgcga tgctggnang gaaggatngg agatgagagt nattttacgg 420
gcgcctatct cctcctcttn ctatcntgcc ctggactgcg anctcatctt tcatannctc 480
ttgcntggtg gtaggcccag caancggatg gattttaagn atctcagaat tttcanttna 540
tcannnntca ctntcagagn tccttttntt tntcaagggt acccagtcta actggttagc 600
ttcttttcaa tagncctcct tactnactta cgcctagtca nggacgaana ntaatggtaa 660
ctganttact ntcctccaac aaancattag ntgattngac tttttacncc tcattcngan 720
ggcnttagac ccctttttgtg cactttacnc aaggatgttg anacctanaa ttt 773

<210> 3573
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3573
ggtgnttnnc cctttgaaaa ccctttaata caagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga ggnaaagctt catgttccgc acctgggggg cggatgttat 120
caacatgacc acagttccag aactgtcaga agataaattt ctgttgttct cagccatcca 180
gtttgtggta ctttgtaacg gcagccctag gaagctgatg caggtgggat tgattcccct 240
gctccagaga aaggactgtt ttcacagaag aggcgatgct tgaactgaat ctgaagggat 300
caatgtggct tcccttggca aggcatggag tgaaggtgga gtatatccca agtggggagg 360
acagcacgtg acatggcgca gggcttatga aacaacatgc cttcttctct tcangtactt 420
aagctacatt agtaagacca gaacttagtg gtgagggttg aagctggctg gacaggcagt 480
taggagtgag tcangcgatg gtgagcctcc gtgccagaac aacttgtagg ctgtggaagc 540
aacccgcaaa gggatggcag cggtgatata tatagttgaa agatcactgt ctgctgtgta 600
gaggatggat ttggaagagt caccanagca ggaataagaa gttaaagggc ctgcaccagg 660
gcttgtagca tagagtttna gaaagtcttg gggagaattg antcaccttg acctactgat 720
tcatttggaa ngtgggaatg caatcatggg ggtaagtcct ctaagatagg acctttnaag 780
tgtanggatn 790

<210> 3574
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 3574
ttgattcnnt ccttggcctt ttgcaggacc ctcgattcgc ccagggccgc ctgcctgagc 60
ctctctgcag ctgctcacct cctgctgagg cctctgcctt cagagctagt ggggcctgct 120
cacacattcc agtagtttcc tctttatttg tcctgaacca agttgtagaa tttaaaggag 180
gtgaagtaag gcgatttcta tggaaaatat atttttcttc tttactcctc atgctgagtg 240
cataagaatt tattatttcc cctgaatgtt caaagtggtg tgtgtgtgtg tgtaaaagaa 300
ccaggagcaa acaatcttaa taggaatgtg cgatcttgtg tttatcttta gcacacttaa 360
ttagctacaa cccgggactg ttgccatttg aacaagttgt taagaaaatc tgccatgttt 420

tgctcttttt caaaaggaat gactttaata accatagcaa cacttactca gttttgtgat 480
ccactccaag attatgggag caagaacaga tactcctgaa agcaaccctc accttctccc 540
cgccccctgc cctcacaagt cctgcctgtg tgaactgaag ggtttggaag ctctggtttc 600
taggantgcc cagaagctag aaagactang gtgtctagtt attgaggggc aattgtcant 660
ggcagtgtgg gggcacccca ntggtattcg aggcactgga ttgctttttg nctcc 715

<210> 3575
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3575
tntatanata cagctcttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
tctcatcctg aggccacttt ctagggccat ttctggcacc agatgtttta tttcagctcc 120
cccaaaagca aaaccctgag gcagggatct tggttgaagt ggggagggga tcccagaaag 180
tggggtgagg gtacggaggc atgaggtagg aaagggaaga aaggagataa aatgtgtgtt 240
aatgagcagg ttagcactgt ggaccaccac gctcaatccc actgagacgt gaggaagctg 300
ggaatgtatc caccaggcct taatttatca agatgaggat tactcctgag atgttaactc 360
cttgttgttg gacctaggct gaacatgctt ccgtagccaa gaaagggctt caggtgaaga 420
gacacagaga accttctgca ggccacattc caggctggga taaggggaat tgggtgtgac 480
atcaatagca tctcatccca cagtgaacta agaagataga agagcaaatg caaggaatat 540
ttgcatgctt tcaatactta ctcatcaaag ggtcgactcg acttanaaga aattacaaat 600
cctgcttacc attttcagcc caatatgctc acgttggcca agccacagct gcctttaaat 660
agtaccaact cttgaaaaaa aaaaaaaact cgagcccttt anaactatnn tgagtcgnat 720
tacgtagatc ccgaccntga taagatccnt 750

<210> 3576
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3576
tttgaaancc ctttgctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggcgaaaca ccactgcaag gtgaacagcc tgggttacta gcanaaaaac atcattcagt 120
ctgtaaatat ttatgaanat ctgtganagg cactaccctt accctggagc taacctgtga 180
cccagagagc aaggactctt gcttttacag aacacatatt cttgtggaat gagaggggct 240
atcatcaant aagcaaatca ttcnatgnan tgtgttantn tattttccca ttgctttaaa 300
gaaatgcctt ttnctgggta acttataann aanagaggat nnattggctn atggntccac 360
aggctgtacc ataagcatgg tatcatctgc tcagcttctg gggaagcttc angaaactta 420
cagtcatggc aganggcaaa tgggaagcca gcactttaca tggncanana aggaggaaga 480
ganagagaga ggcacgaggt ggtacacact nttaancaac ctgatctcgt gagaacccac 540
tatggtgaga acagcataga nggaatgatg tttaaccatt catgantaac caccctcatg 600
atccaatcnc ctgcaagcat gnaccaactt caacactggg gattacaatt tgatgtgaaa 660
tttgancagg gacacaaatn caaactcatc actaagtatc agngctttgg gaaaaaaata 720
cgtnnntcca nncntgatag atncctnnt 749

<210> 3577
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3577
tntatagana cagctcttgt tctttttgca ggatcccatc gattcgccgc tgcctgcacg 60
gcgatgagaa cagcgaggtg tggcggagcc tgtgcgcccg cagcctggca gaagaggctc 120
tgcgcacgga catcctgtgc aacctgccca gctacaaggc caagatacgt gcttttcaac 180
atgccttcag cactaatgac tgctccagga atgtctacat taagaagaat ggctttactt 240
tacatcgaaa ccccattgct cagagcactg atggtgcaag gaccaagatt ggtttcagtg 300
agggccgcca tgcatgggaa gtgtggtggg agggccctct gggcactgnn gcagngattg 360
gaattgccac anaacgggcc ccnatgcagt gccaaggtta tgtggcattg ctgggcagtg 420
atgaccagag ctggggctgg aatctggtgg acaataatct actacataat ggagaagtca 480
atggcatgtt ttccacagtg cancatcnca ccaaaatatc agataggaga aagaattcga 540
gttatcttgg acatggnana tatgactttn gctttnnaac gtggatatca gttctggggg 600
nngnttttng aggactccaa agggctggtt attcccagca nttnatgctg tatatgggnn 660
cncagaantn actttggtnn nactnggnaa acctttgtac ggnnacaann gnnnncttgn 720
natnnctncn nnangnnnga naaat 745

<210> 3578
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3578
aaatngctag gctactcgtt ctttttgcag gatcccatcg attcgaattc ggcacgagcc 60
cagctctttg ggaagctgag gtgggaggat cactcgatcc cagnggntgg agacttgcct 120
gggcaacatn ntgcancctn ntctctaaan atatntnttg catngantng cccgncatgg 180
tggtgcacgt ctatagcccc agctacttca gaggctgatg tgggaagatc ccttaagcct 240
angaggtcng aggttgcagt gagctatgat ngcaccatta cnctccagcc tgggcgacag 300
ancgagactc cgtctcaaaa aaaaaagaaa anngactntn nncgaangga gacacgtnaa 360
agtcttgcta attgtcatat ccactcccaa ntntagcntt tctggatgat gnccattcct 420
nctgcaatnn ccttatnatc catctnaacn ttttgcaacc tatgaactgn ttcgtanant 480
taattactac caatacaccc tatgtacagg agcatangga aatcaanaan antgangaat 540
tnnantctat taaaggccac nagaatggnt nacacctgta atcccaacac tntgggaggc 600
cacngcgagt ggatcacctg agatcangag ttcgagactg gcctggncaa catngtgaaa 660
ccccngtncc tactaatggt ncaaanatta ccaagccgtg gtggcacgtg cctgtgancc 720
caagntnctc nggaagctgt agcangagaa at 752

<210> 3579
<211> 725
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 3579
gtgttgaatc nttctcncat naaacncttt gganacccac cgattcgaat tcggcacgag 60
ggtgattggg ctggttctgt accgggtgta ctccgtgggg ggcgtnatct ggcaaagcct 120
tggaggtggg actgtggagg caccattgat tgaactgtgt cccctgcagt tcacatgttg 180
aggcccaaac ccccagtgtg gctgcatttg gagtagggca gtaattatgg ttaaatgagg 240
tcgtatgggc gggtgctgat ccactaggat taggatcctt ataagaacct gccaccttct 300
ctctgccacg tgaggacatg gggagaaggc ggctgcctcc cacccaggag gagcccttac 360
tggacactgg gccctggctg caccttgacc ttggacttct agtccccaga actgtgagaa 420
gtagatttct gctgattacg ctttcctgtc tgcggcctga gctaagacag cggcgcttgg 480
ggagaagcag aatttgagga gctcctcant ggcaggctgc cctggccctg ctgtcagcag 540
aggggaatgg ccatccatgc tggcccctac cagccgggcc ttcantgagc tccccgggta 600
ggtgaanctc tctaactctg tgtcccccgc aaacaggccc acgagccaac gcctatgggg 660
tggantgaaa attangaaga aacattaccc gangggtcac tctntttnan aagacctcaa 720
tggnt 725

<210> 3580
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 3580
nggtnagtta atttagcctn gtgaactctt ggaacnccga ttcgaattcg gcacgaggag 60
cagagatggc cacagaagcc agagaagctg gacgaggcct ttttggcaac aaaagagtga 120
cttaacgcag ttctaatgtc ctacattttt atgctcttat cctgcagtta caggataagt 180
caagatacac ggtctacaaa gaaattttgt tctaatttta taatagtaga gatggggtct 240
cactatgttg cccaggctgg tcttgaactc cagggctcaa gcaatccgcc tgcctaggcc 300
tccctaagtg ctggattaca ggcatgagcc actgaacctg gctgtacaaa gaaatttatg 360
gcagagagat atgctcttta ttttggggag gtggcatggc attatcaaaa tagcatgggc 420
tttggaatga aaaccttggt gaccgtgagc aaaggaagca tcatttgctt gtcttcaaaa 480
gagggatagt gcaacttaac ctgcaggagt aaatgagata acaatataat agtatttatt 540
aacagagtct tgctgtgtac ctatagtaca tcaagattcc atttctactt tttttccttt 600
ttcactgnct aaaagtttta ataacntttt aaataagatg atggtatatc aaaagccant 660
tataggctac taaatatttt taattatttc ttaagaaaaa aatttaagct aaaagaacca 720
aatgggatat ttttttg 737

<210> 3581
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 3581
gtntttatcc tgctcttgca ntcgtaggac cctcgattcg aattcggcac gagccctcct 60

tgcccagagc aggcattgct catccactag gcacttcttc ctgccaaggc acctcttcct 120
gccaagtcag tgtctcacga tccctttcaa cacagccacg aggaagccat gatacatcaa 180
ctggcactgg caaataaaat caaacctatt tgcctatcca gtcttatccc actttgttgt 240
tttctctaag tagttggaaa acaacatgtc cagagaaaaa taccagaact tattctgagt 300
atgttcttca gagcaaacct ttagaatctt aatgatgttt agacactcag gaatgagtga 360
accagttgca ctgatagaat caaaacaata ctgcaaatat tagtcatgtt gcctattatg 420
aaatatatct gtgtgtgtgt atagatatga aaaaaaaact ctaaagtctg agttaaagag 480
ccctgccagg tatagttaaa tgctctctaa cctatnaaga attcaattcc atttggcacc 540
tccaaatctg gtatccagaa ggaagaccag agaagcagcc cccgatgcaa tttgcaagat 600
gtgttcctgt ctgggggtgc cacacgttaa cagcagctta aaaaaaaaaa aannttnnnn 660
nnatnnntaa nnannntnnn tnnattnnaa ctnnnnnnnn ttcttncnnt ttncnant 718

<210> 3582
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 3582
tnncttaatc ntgctcttgc atttctgngg acccatcgat tcgcccaagt gaaaagactg 60
ctgtcagata gcacttgcct tccccatatt attcagctac tgctgacctt tgaccctatc 120
cttgttgaga aggttgctat tttgttatac catatcatgc aagataaccc acagttaccc 180
cgcctttatc tgagtggagt atttttcttt atcatgatgt acacaggttc caatgtgctt 240
cctgttgctc gatttttgaa atacacacat accaaacagg ctttcaagtc agaagagaca 300
aaaggacaag atatttttca gagaagtata cttgggcaca ttctacctga agcaatggtt 360
tgttacttag aaaattatga acctgaaaag ttttctgaga ttttttctagg agaatttgat 420
actccagaag caatctggag tactcctggg ctggcaggcg aaccgactgc ggaggcgcta 480
cttggactgg aggaaaagga ggctgcagga caagctggcg gcgacgcaga agaagctgga 540
cctggcctga gactctgcgc cttccgccca ttctgtcccc ctcatggcca ccttgccatg 600
ttcgcgccgg accccggtcc cgncggcgcc cagaaccagg cttgccacac agtccccgnc 660
tgccatggcc ggntcttnct ggaatgttgc ttgttgaana tgcatataga ctacccggaa 720
a 721

<210> 3583
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 3583
attgggtncn gctcnttgtt ctgctgcagg atcccatcgn ttcggataat acttgtggat 60
cttgatgcta aggagcctgc tccttatgca tcaagaaaca cataaccagg tacagaaact 120
ctgcagagta ctcatgagtg gcaggaggag ctgtaccaca agaaggaagg gctcagggaa 180
ggggacatgt cttactcact tgttagcttc cacggatggg atgtggcagt gctcatgaaa 240
ggatcttgga caagtgtcgc agcagaacag ccgtccccat ttgttgcaca cctcacatat 300
atttgagttt tccggctaga aggggagatg tagacatcac cgggatcagt gagacccttg 360
gaccctagaa tatgtgacct ttttatgtat caagggcaca cttgtaaatt tctgtcctca 420
aaatattaaa gattgctgag tggagatctc agaagacatt ttggtctgcg gcaaagttca 480

gtagatagtg gctgtgtgtc aggccagaaa agttttcttt atgaaaccag agattctgac 540
atgatgacta gtgacaaaaa taggatgaat tagagatttt ttgagcaatt tattaaacag 600
ctgggaaaac ctggcccaga aatagtgtct tttctagctg ctacatcgta tnctttaaac 660
tgacttgnca agggtgattt actgagaatt taatatgant ggaataaact tctgagatat 720
cnc 723

<210> 3584
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 3584
tggtgcnngg tccttgctct tgtnngctgc aggatcccat cgattcgaat tcggcacgag 60
gtccaggcca ataatcagtt ggttaagtga aaaaagtgtt taaagtgaag aattataaag 120
aaagtcatta tggatctcaa acttttactt taattgaaac cataaaaaca tatattcact 180
caccaatgtt ttatgcaggg ttaatgcctt ctctttaaaa ttggacttct gattggattt 240
ctacctcatt tttcttatgt aaacacttat agttcacttt tgatatttat gggttttgat 300
ttttgaaaca aagggaaaat gttaaaacat atactgttca gtaatgccac ctaatccatg 360
cgggatatgt cccaggaccc ctagtggatg cttgaaacca cagataccaa acatgattac 420
tgtcagtcgg aacatttttt ttttttgga gacagagtct tgctctgttg cccaggctgg 480
agtgcnntnc nnnnnnntnn ntnnnttnna antantnntt cnnnntantc cnnttaaann 540
tttcnnatnn tttctnnnnn ntncnnnnnn tcttattnat ntnnnntnnn cntntannnn 600
nnttttnnnn ttcantnant antcttttтn caccttnnat tnttcnnttn tcnttttnnt 660
nnnnnttntn ntnttnnttt nnttnnntnt ntnnnantan tntnntnnnn ctcntnc 717

<210> 3585
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3585
aaagggnntn attagttatc cctttccaat cccgtaggat cccatcgatt cgaattcggc 60
acgagatgcc tgccagctga gaggcagttg gattccnttn gcngagcagg catttcagca 120
gattcagcag tcagagtgca ccaagaaggg tgctttagtt tggagtttca aaaggccata 180
ctgtaatagt gaaccagaaa tcaagcagcc ctcagaaaga ctgaaacgca tctacggatc 240
atctcaatct gattgcataa aggtggttca agatttatta gtgcttttta ctcgcctctc 300
caatttttca tatataatgt ccagcaccac atcaaaaata acccagcata gatggagata 360
agacactatc actaacacaa tagaaataga tccacaaaag atttagatca gggatcagca 420
catttattat ataaaaggcc agataataaa tatgttatgc tttgttggtc acatacagtc 480
tcttgnatat tctttttcta tttttgntct ataaccctct aaatatataa aaactattct 540
tagcttggag atcactcaaa cactttctct ggcataatca ganatatctt caaactatgc 600
ttcaaatgtt caagggaaat aactgataag attgaaaaat tccanggaga ngcacaanaa 660
gtcattanaa aaaaaagccc ctanaactat agtggagtcn tattaccgta gatcccgaca 720
tggntaagat ccattggtgg agttcg 746

<210> 3586

<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 3586
aggggttgga ngaagccctt tgaattccnt cggacccatc gattcgaatt cggcacgagg 60
ttctgagcag ttagtacgtg gcagttgtat tattagagga agcctgtctt gttttttttt 120
aaataagctg atagagtgag gattctttta atcaagactg tttgggattg aattgccact 180
cctgcttacc agagtgtagg cagtttttct taaactttcc aagaagactg gtgtcctcat 240
ctaaaatacg aaatgcttac agtaattgcc tcatggggtt gtttggggtg actaaatgta 300
gtaggattta ctacatagta agttctcaat acattgtagc tattattatt agttcggtag 360
aaagaatgtg cagattctta tgagtttaag taggctttcg gggagataga ttgactctgg 420
tcttttaaaa gttaattttg aagttgcagt tttgtgatta agccttaaat ctgttattct 480
ttccttctga aatccttaaa aacagaatgt ttagtagaag gtgataacca gatttcttta 540
ttccaagaac tctttgctct catgtctaac ctttattttc ctggtactta ctgatgccag 600
aagcttctct tagtnaatat aatacatctc ctctctccta atttgctccc cgtctttcct 660
tgtaagggaa aagtaaattt actttccaag cctnanggtt atttatggat tangtgaacc 720
actgaaat 728

<210> 3587
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3587
ttttgaaacc ctttatacaa gctacttgtt ctttatgccg gatcccatcg attcgaattc 60
ggcacgaggg cagagtaagt acggtaattt ctgcacccga atgggtagtg ttgcctttga 120
agtagtcacc ttgggaagat gtatgtttat tccagtgaag ctgaccttac acagaacatt 180
cctagaaccc tctttagaaa ctgtcaactt gtaagggtct tcagtgttgg taaatctttg 240
tcctttaagg gtagatctat tttttgagga atgatttttt tttttaacag ctaaagagca 300
ttagaaaata agtctgctaa ataaaatggg tgaagcagct caggatgatc ttggtgggca 360
ggaggagggg ttggataaaa cacaaggtct gactataaag ttgtgaggcc tcttgccttg 420
catggcttca aaggtaatcc caaaggggaa ccctaagtgt tcttggcaca tgcaacatca 480
agaaaataac tccaattatg ctaactcttg agtgcatatg ttctagtgta tttggttaaa 540
aaggtggctt tgttcatttt cagtcatatt tcgtataagc agaaatggaa aactccatct 600
ctgtgatttc tcccaangga aagatctcat ctactgctta gagaattaaa atgaaaagca 660
cttggtgtca tgtctacatt agccccccc ccccccaaaa tgtgccaatg ggtaattcct 720
ggatacctga gtcttncccg tttnggaaaa ntgggtnaag gaccctntaa aactatagtg 780
agtcgta 787

<210> 3588
<211> 744
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3588
tnnncttnat ttnnanccnt tggntctttc tgcaggatcc catcgattcg ggagatttca 60
acttaacttg accactgcac tccagcctgg gtgacagagc agacaagact gtgtctcaaa 120
taaataagta agtaagtaag taaatatcct gtaggtatct atgtgactca aggctagtca 180
ctttcctatc tatgctccag ttttctcata tttgagacaa gagacttgat tttagcataa 240
aggtgagagt tgaagtaatg agtgtgaaag aggaaaggga gaaaacatac agagaagagc 300
agaaaacaca agcagctggt aggcagagaa tgcagaaatt caagttagag ctgttggaag 360
atgtggtagg ctgactaatg gtgccccaaa aatgtctaag tcctaatccc cagaacatgt 420
aaatatgtta ccttacaggg taaaagagac tttggggata tgattaattt aaggatcttg 480
agataaggag attagcctgg attatccagg tgagcccaat ataatcacaa gcatccatat 540
aagacaggca anagagcaga atcagaatag gagatgtgat gaaggaagca agagattgca 600
gggattccag gaaggttctg tgagccaang aatgccaggt ggacccctng aagctgaaaa 660
angcaaggaa aatggattct tcttctcann agcccttccn cttaagggac ccagcccttg 720
ccagcaaatt tggccaactt cact 744

<210> 3589
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 3589
tttaaanctt taaacaagct acttgttttt tntgccngta tcccatcgat tcgaattcgg 60
cacgaggtac ttcctaggag tggttgcatt tgggaatgga attgttaaaa cttgatgctt 120
aggagcgaat gcagactatt cattgggtgt ttggggtggg ggaaggggggg gtgggcanag 180
gaggtatgca cnggagaggg gntctgngct nctcnnatta ttgcacaacc nctaaccatt 240
gttctataac tgcatnaaca natnataacn gggccttncn ngatntatct taacgcttan 300
nttttncnan atatanatgt aactaatcac tcnctttnng taatnanctt tnccntnntt 360
ttgtaagaac gccnctcctc tgnnactgac ctttnttact tccccccccc tgccncctng 420
accttcctgn tntttctcac gtngatngtg gcanttnngg antaacatna atgntnaaag 480
gcntngnttc ttatntaaaa tttnncactc tccacnatnn ntttangatn aaaaccnnct 540
nntnttncan aaaancgttt tnctanttnn aannaccctt tttannattt ttnnaacaan 600
aanctnttat ttttnnttnc catnctaacc ttttacaaaa ntnnnggtta accccntttt 660
ttatataaaa nctnnntnnn ttatnaanaa ttaannanta tttngtnaaa nnccctttna 720
aaaataantt naaaangccc tnnttnnatg caannattnt naatntgttt ancccccncn 780
tttnncncat nggnnttgtc ctngcnttna ncaatntacc ttcattttaa aaaaangncc 840
canattnttt tnnnacct 858

<210> 3590
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3590
tgtggtnana ngaactcttg caatnccctt tgcgntnncc gcaggatccc ancgatncga 60
attcggcacg agggccacnc cgcctgtgan gnatttnngt nnctntttnn tgnacctggc 120
atcctnnttc cttccccncc tngcnggcac cgccnaggac cgncggccgg gggacgagcn 180
cggagcngcn gccaggtaga acnatanact anatagcact gaattaacct gcactgaaag 240
ctgngnacct gcatnatgtg cactcatgan gnangtgacc ntgtcnnaag tgcaagtgca 300
agtccagaac cnatctgctg ntntnacngg gagccaaana ctgaacanga accagtctnn 360
acggtnacan ncnangatga ntatccctnn tacnactanc tcnctgcccn ttgaaaatgc 420
nggtngaccc attcaaaact tatgntngac ccatctncan atatgacatg caccagtgca 480
agntgnacaa aagcatancc cctctgtaga actaaagcac ctgtgcctna aacttgtaaa 540
aaaacccaat ggtttaaatc cgggaaggac ccttaacnca tcnggantgc cngtttaacn 600
antaannтac catcatgaan aaggaggtgn catatnccac cgngggtann ttgaccccaa 660
ttgccaaatt ncccnnttta ctttatcaaa gtnggnanct ttntggnngg agggnaannt 720
atnttnantg gcaaatgcna naacnnccaa aagntncnaa aaaacnn 767

<210> 3591
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 3591
gnttntttta accntaagga ancctttgat gcaggatccc atcgattcga attcggcacg 60
agggcaaata gccctaggag tcccattttt ttaagctgag ggaaataatt ttcaagaagc 120
ttgtcttact agtagcatca ttctttttta ctggctcaca gcttggaagg ggtgatggtt 180
tttcctatga aagctaacaa catttgagca gatccagtgt gctggtgagt cacagtgaaa 240
gtgtggagtg ctaaggaagc ctcctggtgg aaatgtaagt tcagagaagg tctgcagaaa 300
atacagggtg aaatgttatc aaggagccag ggtattattt aagaagagga gggaggggaa 360
aaatanaaaa tcaaatacac taatagaagt aaaattccct attcagaaaa actagtgagg 420
gctgagctcc agtaatcaga gagaagtcta atcangtcac tactgncatg ggaggacata 480
gtcactctct ctttcangag cctatgaagc ttgcgagagc tcagctangg aataagggtg 540
gccaganaca gcancattaa ctggcacaaa tctcaagggg cctgtggggc ctgaaaaaag 600
gaggatnaca ggacatgctg acagtaaatg cttcattctg tgcctaacaa ttttccactt 660
ncctgnngac tttcctcaaa tggatttact taaacttttc ccaaccttna acaggttaac 720
ttgcntccan ct 732

<210> 3592
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 3592
tncnntttaa tnccatcanc tcttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagggttc atgcagtaag atttgttgtt tatttgtaaa tagaatggta ttctatttca 120
aacttttaag acaaacctgt tgccgcaagg ctgatgcaca ttggatgatg actgttttct 180
ggttccagat cttgtctttg tgatatagga gttatggaat gagccctgga caggatccta 240
agatccgggt ttgttcctac ttctactcat taatagcagt ttgacattta atataggaat 300

aatgttaact tgtcacttaa aacaagattc tcttcatctt gttttcaaga tttcaagatt 360
cttttaaaaa ttagcatgaa gtatgggata atgattgggg aggaagtatt tttaaaaagc 420
cttcttgagt ttttatgcat attacatttt tattcaataa aaaattcccc attgttttat 480
tgaaatggat tagttgtcga tcctctgaat tagacatatt ctttaaaaat aagatccgtt 540
gtcagccatc taaaatgttt ttataaattc atacttacat tctttttgc cggttgcagt 600
cagcctttag tgccaagaga gaacattaca gcatggatga atgcaattgg tttgatcatc 660
actggcctcc aagtgagtta ataattgnga attggactta agngatgaaa aacaagccng 720
ctgttncctg tcaggnctct agaactatag tggaggccgn ttaccttnat ncccgccttg 780
aatnaggaat nccttggngg agtttggaca aanccncaac tnn 823

<210> 3593
<211> 1035
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1035)
<223> n = A,T,C or G

<400> 3593
nncnnttnat tccatcagct cttgttcttt ttgcaggatc cctcgattcg aattcggcac 60
gagcaaagga ttgagagaga aaacttggct ttattgaaaa ggcttgaggc cgtgaaacca 120
acagttggta tgaaacgttc agaacaactg atggactatc atcgcaatat gggctatctc 180
aactcatcac cattgtcaag acgggccaga tccactcttg gccaatatag cccattaaga 240
gcttccagga catccagtgc tacgagtggt ctcagttgta ggagtgagcg atcancggnt 300
ntcccttcnn nngcatcnta tntnaatacn tntccctntt ncnntngttc tgtnttnttt 360
tatannnttc nnnccnntnt nnncctcttn tccctgtncn ntttgattnt tttanttntt 420
ntntttnnnc tcnttnctnt tcnttttact atcnnatcnt ctttcnttnt ttctttnttt 480
ntanttctnt tnnntccttt ncttcacntt ntantncttc gcctntttaa cnntnttntt 540
tatttntcnt tctngtaatn tttcntttat atntntntnt ttcanntcnn ttaattcnnc 600
tctantnngt cctttccnta ttntnattng ncctannata ntttcnatan nttctcntnn 660
nnnctnnttn ctatttntnn naattcnngt ntgtntcatn tcnctnctnc ttnctnntnn 720
ttttttnttna tnntatnttt nntatcttcn ntctnncttn ntanatntta tctntntntc 780
nttctncnta taaactatac tnttnatctt nctcnnttnt cntatctaat ctncantnta 840
ttantttctc tantntntca tacctcganc nannctcntn acgntntntn nnatntnnnn 900
nnncttanna tnttcatnta anatattatn atantttatt tctnttctan ntntctcnnn 960
atanntnnct nnantctant tncnttnntt ntatcntttt naangtattt tttttnanta 1020
tctantnnna tnccc 1035

<210> 3594
<211> 992
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(992)
<223> n = A,T,C or G

<400> 3594
cggnangnnc gtnaacggaa ncccgncnnt tgcggatccc tcgattcgaa ttcggcacga 60
ggaactagtc atgccaggna ctaaattttn gggggcagtg agggatctgg tgcagaanca 120
acctgatcaa tgggacagga cagggagtct caaaatagcc ataactgcat ataaacatct 180
agtatatggn taccacagta ttcaattcaa gggggcaaaa tagagacttt ttaataaatg 240
gtgttggaat aaattatagt tatttgntca aagagttata attttatgca ttccttacac 300

ccatgcacta gatgatcctc caaatggatt aagactgaaa tgggaaaaga aaaaaanggg 360
gggaattccc tatatcatct gggnctaagg gaaaaaattt tttccaacct atggacccaa 420
gttcccacat ggtaacctgg aaaaaattaa aaaaacccng gacctcntcc tcctcntaat 480
aataatatta ataantnnnn aacctttcc aatggggcca aaaaaaaata aaatccccaa 540
tttaaatgga aggggnaaac caattaaaaa aaagggaacc caaaaattaa aattaaaaan 600
ccanggggaa aaaaaaaaat aatttgggga ngggaataat taattaattn aaccaaaaaa 660
cctnccccag gaaaattcca ttaaaaagga accattcctt naaaaataaa tgggaggaaa 720
aaaaaaaatg ggaaaaaaag gcccaccaag aaaaaaattt ncgccaaaaa aaggnatgga 780
cctgggacaa cctcaaaaaa gggtattaaa aaaaatcccc ttaaaaatat gtaaaagggg 840
ttnaacctca cacatactag ggaaaaatta aaataaaaat tattccggag aaaaaagcca 900
cccatcagaa tngacaaaaa agnccnaaag cctnggacaa nagacccttt tggccaaggc 960
tggccaggan gggaaaaaaa aaaaacnccc ct 992

<210> 3595
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 3595
nncnnnttta attncaatca agctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagc ttcttttcat ttttcttaaa ctaatttctc acaattttca tttttgtcct 120
gagacttgaa gggaaagtaa gttttaatct agaccatatt atttagttac atctaatctc 180
tctagacaaa agacagtctg gagagtactc tttagttcta tttattaatt ttgtctctag 240
attgagccag atttccccat gcatagctgg cattttattg gcctctgcag aattgctttt 300
tctggattgg actttggtaa tccatatgaa aatctctatg aaatttaatt gctcgccagg 360
tgtggtggct cacacttgta atcccagcac tttgggaggc tgaggtgggc ggatcaccag 420
aggtcagggg ttcgggacca gcctggccaa catggtgaaa ccccgtttct ccccagaaaa 480
tacaaaaatt agctggtcat gagggcacac actgtagtcc cagctactca ggaggctgag 540
ggggaagaat tgcttgaacc caggagatgg aggttgcaat gagtgaagat cgtgccactg 600
catccagcct gagcaacaga gtgagatctt gtctcangaa aaaaataaat ttaattgctg 660
tggatctgta aanggtgttt atcgtaacag ttcataatat tctatttnaa natgcgtggg 720
agaaattttn tntggancca gttatgcctt tnctggaatg ntggttgggt ttaccttaag 780
gccactnaat ttcagctgat ggtttttctg gt 812

<210> 3596
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 3596
nncnnnttta atancaaaca nctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagct tcctccaggc attataatat taggttaatt tagaggagca tatttatatg 120
tggagttaca ttgtgttggc cattcaggag actgactgtg aaagaatcca aactttatat 180
ttctgccttg ccagtttttt tttccttttc ttcactccat ttgagacact cttgacctaa 240
tccagtaaac tctaattaat agtcttggta aattctgttt caagccatcc tgagtagcgt 300
cactgacacc cgatctgttt cagtaaggtc aaattagcat cctttactat ttttctggca 360

tttaaatgaa tgactttgct atggtttttc aagtgtttat agtaaatatg tccatttgat 420
ggaaatataa atatgcatta agtgtaagtg gctaggcaca ccctgctgtc acttttatg 480
gtaatcaagt gtctttcact ttctgttgtt tttaataggg accagctgac aacgccacat 540
taaaaccaca gggactcaaa agataactcc cccacccccc cacccggcac tgcttttatc 600
ttgcaaaagt attcatgttt ttctcttagt atgccaatta cacccgttct ctgacatttn 660
cacttatgta ctcatgggaa ggaatgaatg ggttactcaa actgggacca ttgaatttgg 720
ggacacctgg tggactccac tggccttaag anctacangg ttanttggaa acagtggggc 780
accgtgggtt gacttggcct tttntttgcc agngggtttt gggccttgan 830

<210> 3597
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3597
nncnntttta attccataca gctcttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagaga aactacttct atgatttcag ctggagtctg aagatacttg tttctgttca 120
agtcccactt taaattatgt cttaggagac tgaaagtgga atcttctgag cattcctaaa 180
tatctgctta gaaatatcat gtgataaaga gggaccttct taatacactg atgttcttca 240
ctaaatggat ggccacaaga aaaataaagt aaatgtctta aataatttaa ccataaattt 300
tctgtcatgt gatactggaa tatgggatac ttttcatgtt tatatatata tatatatatg 360
tatatatata tacatatata tatatatata aacatgaaat atatatatat ggctcctttg 420
tgccccatgt cattttcaga ttatggtagc atgctgatac agcaccatga aagaactcaa 480
ggaaaatata tcaatgtaag aagttcactc ttagacccag tgttctgagg tcacatgggt 540
ttggactgtc tcaatcagaa agattaatga ctgttatcaa gaacatgaac attggcttcc 600
tccatagaga agaaaatcag tatctgagtt gcataccagg cagtattaaa aatctaacan 660
gtctgtttgg cccattgata gatctcaaat ggngtctcct tctgggtatg gattttgccn 720
ttggttaccc tttctcaatg taatggaagt attttacaag ccaattggng gnggaaatgg 780
tgctcttgnc ttttcntgnt tacaaactac tttcacattg 820

<210> 3598
<211> 856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(856)
<223> n = A,T,C or G

<400> 3598
gnnnnnttta nttccaatac anctcttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagga tagaataacc aatttaaaat gtcttataga taaaatctag aatgaagctt 120
tggtaagaag tctgagctac gtacataaga ttatcagcaa catatatgtt aaggtggagc 180
catttaaaga aagaacagaa gggacctatg atttactgat tgttgaaaat caaaataaag 240
gaggcagaga aaataaagat tgtgagtcag caggactttt gtcttatttt caagtggatt 300
tattgattac ttttcttctt acagccaagt gcaagatttg tgaatgggcg tttgaaagtg 360
agccactatt tctccagcat atgaaggata ctcataagcc tggagagatg ccttatgttt 420
gccaggtatt gccttttttct ccagggagtt ttagcagttt tgctctcagg aagaatacaa 480
agaatctact aatgaatatt gttgaccacc tactgcatac actcagttta ggaactctga 540
gtaggtacag aagaaatagt aaacacagtt tatcttcang gtttncatgc cnggagaaaa 600

acataaaaag aacatgttcc ctacnaaaaa aatttttttt taattacctt gggcatngng 660
ggtgcaccac tgtagtccct agcttacntn gggangcttg aaacaaggaa ggctcgcntt 720
gagcctcaaa aggataagtc cctaacttcc tcaaggaagg cttccggngg aanctatgaa 780
tcatgcctnc aancctgggg caacaagtgg agaattttgg cttntttaaa anaaaaannn 840
nnnnnnaaaa ctcggg 856

<210> 3599
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3599
tttaacnctt tttanancct cttgatcttt tgcaggatcc catcgattcg aattcggcac 60
gaggaagaaa gcagatgcca ttttatctat tngcacatca ggactgacag acatgaaaaa 120
attggccaag tgggcagcag agtccaagct cgacccaaat gaccccaaca atgccccttt 180
gatgcagctt atctcggttg ctaccagngg tgaatcctat gtccctgatt tctttagact 240
ggagcagctg caacaggagt ttaactttgt ttcagatcaa gaattaaata gatccaaacg 300
atttaggctt cttcatctta gaagccaaga ggtgccagaa ttccgaaatt ataagcaagt 360
tccagtctat gaccgagaaa ttatggaaaa ggtattccag gactatgaga aacggttacg 420
agacagaaat gtaatagaaa ccaaggaaca catagacacc catagggcca tagtagccaa 480
gtacctncag caggttagag aatcagngat aaatcgtttc ttaattgcaa aacaatattt 540
tnttttggc tgntatggat agnagaagaa gaagttccca atttcancat tttgggncta 600
agccttttca agctngccan aacaaaancn gaccactgng gncaaggnga aaaaggnngg 660
nangaangtg ancnncccca aancctngnn tnnnnggaga cntaaaannt ggctnnngaa 720
nattngnnnn nancttacna cnttccaann gnnggaaanc nnnnnttnnn nnaannncaa 780
nnnccnnnnn ggntttnnng 800

<210> 3600
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3600
tnaacccttt aacaagctat tgttcttttg cacgatccct cgattcnaat tcggcacgag 60
gcgggcgcga ccggaggcng tttccgttac tatggcaatg acggcaggga ctacaacaac 120
ctttcctatg agcaaccata cccgggaaag agtgactgta gccaagctca cattggagaa 180
tttttatagc acctaatttt acagcatgaa gagagagaaa ccaggcagaa gaaattagaa 240
gtggccatgg aagaagaagg attagcagat gaagagaaaa agttacgtcg atcacaacac 300
gctcgcaaag aaacagagtt cttacggctc aaaaggacca gacttggctt ggatgacttt 360
gagtctctga aagttatagg aagaggagct tttggagagg tgcggttggt ccagaagaaa 420
gatacaggcc atatctatgc aatgaagata ttgagaaagt ctgatatgct tgaaaaagag 480
caggtggccc atatccgagc agaaagagat attttggtag aagcagatgg tgcctgggtg 540
gtgaagatgt tttacagttt tcaggataag aggaatcttt atctaatcat ggaatttctc 600
cctggaggtg acatgatgac attgctaatg aagaaagaca ccttgacaga agangaaaca 660
cagttcttca tttcagagac tgttcttggc cattagatgc cgatccccca gntgggtttc 720
attccntcng gatattnagc ccgacaaccc ttttnttggg ttgcccaagg gtcatgtaaa 780

attn 784

<210> 3601
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3601
gnaacctana aacagctatt gaacttgtng cacgatccca tcgattcgaa ttcggcacga 60
gannaaaggt gtgagccacn gcgcccggnn tanntaagaa nnatnantnn gnncttgcng 120
nanaacatct gtnntnncaa cttantacna acaaatatna nnattaaacn cttcactttg 180
ncttnnnaac tgntcnaaac actgncactt tggcttnaaa actgctccca caatntngct 240
agcatttttg gngattcaac attcatgtca aaccaccaca ctagggctcc ccagttnctt 300
nattnactca ttgttgcatg cacanatttt ggtatgatct atctcagccg gtcctactcc 360
ttnggggatt ccttacacct ccaaaatttt gaattataag cnttttctc cnaganctcc 420
ctcattnntt tacttatctt aatcattctc ntccaacanc acttnatnta ctttgggaat 480
gccaangaat ccgatntctt nttcactcgt cattacctct ntgcctgctc tntcttttct 540
tggntgttat ngacccagtt tagaggatgc agagtncttn aatataatca ctactttgaa 600
aacatcctca gctgttttgc tcctnttgac tttgcttggc aaaactcagn cntggctaaa 660
acttntggcc atttgcacct gcctcaaaca ctggngctgg ctacaaacaa ntgctaccag 720
catngactgg ntccacttng naattcggac cncacctcat gtaggnnctc ac 772

<210> 3602
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 3602
ctaanncngn gngnctcgna ctngccgaac naaanaggct nnggcgcatc tgtagnaatt 60
ggctttccgt ttgcatattt aaatgaactt tgtggctttt gttaagtata ataaaaagca 120
tggagtcaaa tataagccaa gagtattaca gagactttta ggctgactca gtatctcaag 180
ttctgtgtag attcatctaa acactgctgt tatccatgct atactttacc atgttatccc 240
aaaagggaat catcagcaaa ttttaccaga aactgctgaa ttcaagatat attcaatata 300
tattatactt ctgacatcct aggaagccta tccaaagaat acattacttt gatagaattt 360
gttctttatg aaaattcatt ttgactctca ttgataactt tattccattt tgggggagga 420
ctgaggagtc agtgggatgg gaacagagct aactacaaag tctttgagtt tagatgggca 480
gcagaagggg aaaggaagta ggccgtggga tatataagga cttttccaat ggaaaacaat 540
tgtcagtgga acctctatga ctacttgttc aatttcagaa ttaaacttcc tgtatatttt 600
aggtggaatc aagctgagtt ctagtcaaaa tgctcgcatt atttcccatg aaaaatcccc 660
caaacaccaa gcagacagaa cagtggttga taaacccatc atattccatt tctgaagaaa 720
atcatcaagc cccaaatctt gttttagaaa atttctcaag aactaattct n 771

<210> 3603
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 3603
tgnnnnttga ttnnngcnnt tgtctttctg caggatccca tcgattcgaa ttcggcacga 60
ggtttctttt tttcagagtt ttgctgctaa gaaatatctc ctcaacattt gacttcatng 120
tggccaataa tggtctctga attgattcag acattcacac agcttgaaga agatctaaaa 180
gatgaagatg agtcattgag aagcaccaac aaagtaaaca gaacgaaagt ttcagtcccg 240
gatgcaaatg gaccctcagt gggggagata ccccagagtg aactcatctt gtatttatca 300
gcttgcaaat tcttggacac agcgctttct tttccacctg acaagatgcc attatttcaa 360
atttataggt gggcatttat tccagaagtg gacacagagg gccctgcctt cctgtcggat 420
gtagaggaga atcaccaaga atgcaaaccc cacactgtca ggattctaga acttctaaaa 480
ttaaagtttg gggaaatcag tagctctgat gagatcacca tgaagagtga attcccgctt 540
ctgcgccaac attctgtttc cagcatcagg cagttgatgc cattcttcat gactctaaat 600
ggtgcattta agacccagag acagctgcct gctgatagcc caggaactcc attcttggac 660
tttcctgtcc agatgcccaa ggatcttaaa acaactggga agaatgcatc gnaatatgaa 720
tttctggaac cn 732

<210> 3604
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 3604
ttntttnaat tttcnaatnc ttgctctttn attccgnagg atcccatcga ttcgaattcg 60
gcacgagggt agcacaggcc tgcccttgca cccatgctgt acagtgcggt tactagactt 120
gtggccgttg ttgtgctgtc ttctcattag catgcaatat tcacttgact gaattccttt 180
ttagctaaga gaaatattac agggcatgat cattttaggt tattaaggtg tctaactcaa 240
tatgtaaact gctgaaaaga attatatgtt tntatcagat aatctcaaca tttcaaaaga 300
caacacattc agactacttc ccttttcccc caacttttat ctaatgnctg naacccccat 360
gactagtgnc cnaaanangn gttttagtna aattnnagtc acccgtggat nacaaangca 420
accctggatt cccaatcctg cttgtggggg ggtttnntng gccaaatnga nttaattttc 480
ttgggcaana aannttttnc ttcttaccat taccnggaac cccantantt gcccaaactt 540
ttggnnaatt ttttttaagg aaaaaaaacc tggaaatngg gggttaaatt cttggnaaaa 600
nttnttttnt tttaaaaaac ttnccatttt attttaaaaa aaaccccccn tttaaacctn 660
gggggntcct tttnccttnt tggaccttaa nttaaatgga anngatttgg ggaacccaat 720
anantnaata nnantatnnn aanaananaa ttnattnatn ttntancnaa ntaaaaaaaa 780
aacccctttt naacnttttg gnggggccgt ttcccnnaaa cccnanctta tnanaannnt 840
tnttaatttn ggcaanct 858

<210> 3605
<211> 1718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1718)
<223> n = A,T,C or G

<400> 3605
nctctaaaaa tatctttttt nattataaaa ctttcnaaag tcttatngga cnttngggna 60
actccttaaa aaacntccnt naaaaataaa ggnaggntct ttnnttgggg ncctcccaaa 120
nantttcnna tactctaact gctcancnca cnctcnacca tcactcaaca tntatntctn 180
tacacattnt atctcncana cnnantacna ctctnattac tctnctatat atntacnaaa 240
ctactntcct natnntactc tataccnata ctctctctat cntctatctn tntcatactt 300
anagnngncn natatcacta tactanatca ctctnnnctc atacaccant ntnccntatn 360
tatntcntca natctcattn nttatntnac natannctac acncnntnac atctaacata 420
nntnnataac natctcannt tatctnntnt ncaannctcn nntatcactn cnattcattn 480
aannacttan accnccnntc annnnnnaca ncnncacntt anctnntctc cctannctna 540
ccctcncata catattnnnt annenccnat ccttacntna caantntcat cctancncnt 600
tcnactntca ttctccnttn ccttnatnac ccaactcnca ntcacaanat ncntccncac 660
cactcttntc antacncaac ctattcatnc nncatnatan tntntanntc ncatacacna 720
ccccatncta tnatcaancn ntcantcctt cntttntaat catnnanccn nctcnnctcc 780
tatnatgnnc tctgccccta nnntatcatc ttcacnacaa cncnactctn nctnccanac 840
natcntnata nacncantnt cactntattc taacatnant nnanaccacn tactccatan 900
tcnntctaac atactnnatt aanaatanat tactnctcnt atntcctnct atctcnatca 960
ctcctccncn ctcattacac atctcttata atctncnnat ncncatntct ntcatctctt 1020
ntatcntctc tatnnnactc tcctatcnca tntatcnaan cattactntn tntatanatn 1080
acactctcnc atcnctcata ncactatntc nctttnttata tatntanatt atcatcgtat 1140
acntcnctac tctcnatcac tcatnatact atanactnta tnccncatat cacanacana 1200
cctntcatnt ntcacactcn ctntnntana ctatntcnca ctcctcacan ctctcatatc 1260
tctatacatc nctactctnt ntntnctntn tnatcntctt ncattntntn ctctatcntt 1320
tcnntcatat ncgntntcan atntnacnat catctctncc atctntctct ngtctntnat 1380
tncttccacn atctctcttc annttacac acacntacat tctatnttct ctctatcttc 1440
tnctctnacc tntctcnctn anacnacata tcttatatcn nncatntcat nacnnctact 1500
atcatacnca tantacacca tatntntnca tctctctncc antnccntat ctctatacnc 1560
tctatatcnc ntttcatata tanttacnac atnnctatan attcntatat ctctaccata 1620
tactntcttc tactctatca ngtaantatn ctaanntatt attatatcnc ncantctctc 1680
tcacncaccn ctctatcnca tcntntctcc tctatccn 1718

<210> 3606
<211> 1015
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1015)
<223> n = A,T,C or G

<400> 3606
gggggntttt aaannttntg ggcttgttgg gttgcaggat cccttcgatt cgaattcggn 60
acgagactgg actaatatca ttttaaataa tattgctntt tagcttcaaa agacagagcc 120
tccagcatat tattattatt atagtaatct gattctttag caattcagag aactcacctc 180
attagtgctc ccttgctcta tctgggcctg tgggaaaata cccttgcatc tttctatggg 240
natggnccac nggancncca tctgncttta acatttttga agnattggac ttttnaagga 300
agcngnacnc aattcccntg gtncntncna ttctagaanc ccgnaancgt ttcccngncn 360
anttaaaggg gaanttntcc ccccttgntt gtttgccncn ccccngtttt ttacagnngg 420
gccggttttt aaaaaagana ngtgnttntt nttnaaaaaa ttannatann nntcnntttt 480
nggggccatn nccctttntng nncnnnnngg tgtatgnacg aaccnnannn atnantntta 540
ntnncnnntt ttnantttte ccacgnnctn tnnttncaat tatcnantct cnggtactcn 600
gggcctcnat cncaantnta nataccccct nnnntgcgnc ncnananatn atgnnncncn 660
ctataantnn ggantgttgg nnnccnaana natnntntan tnatangtan tgtnnntctn 720
nnnnctatac ccnctgtngn ttgtgcancn ctcgngtacn ctnnnnacan natnngntat 780
aatanntngt ctcccnntag ntgntntana gtgacnntcc ttntttaang naccatctnt 840

cggnnancgt nactaacctn antttancan ctcntcntat naaancgtna cccccgctnt 900
gnaatggngg gaatngnatn nnnaagtnnc ntnacaangt nnngtcttan ngtntgcctt 960
cnctcgtatn tntannttgc gnnacanngg gtgnnnaann taaaggnncg cgccn 1015

<210> 3607
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3607
tggnntttna aatttttnat gcgttggttt tgcggattna tcgattcnaa ttcggcacga 60
gcctagttgg ccatcagact ttcagcaact tttatcatcc agatagtcac caaatgaaat 120
aaaatagaaa aatcccttga gcaatgaaac aattgtgaat gaacacaaag tccatgaatt 180
taatccttat ccgtttgctg agccaagcat gtgcatctgc agtgggtggc ccaggctggc 240
agcacagata ccaccatttc ccttttcttt gctcagggca tggcctgttt atctcgttgc 300
accagatgan gggttggaag gatgatggtg gtggttgttt cagatctact gacagcaatg 360
agaaatcaat gacagttgac aggaagagag gacccntcca caggcaaaag aggaatgccc 420
agcaatcttg gtccttgcng tgcaatactg gccttgaggc caagtcagca ggggattcgt 480
aagtcactaa cttctaactg aggcagggaa agtaccatgt tctggaaaan gtnccaagaa 540
acnnggaatn gangcagtgt ancaagaagc agattttggt gcccaataga tttgaatcct 600
ggttctgctt cttnctttgt agagtatgat attgggtctt ttnctnccaa agctnttntt 660
aaagacttaa tatgtncncc aaatcttttn ggatgtctga cttttnaatg cttnacaata 720
ggnatttgct ggnattatta 740

<210> 3608
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3608
tnttcnaant tccnngctct tgtcttttgc aggattcctc gattcgaatt cggcacgagc 60
ttggaggctg tttccagcta gagaaagacc tgcttatttc tcactgaata aggttccaac 120
aggctgccaa atcctgtgta tgcctgtacc caaatggaag gagtgccttt cctcaattca 180
taaaaaagac aaagacagtg gtagggatca gctattatgt cagtacatga aaggaacccc 240
ctatctcaat caaaatggta aaggaagctt gtctcaaata acagcaaaga aactcagttt 300
accagactat aaaagttctt tggtcaagaa gataaagagc tctncagaat aagaatacct 360
atacatgtat ggatgtgtgg aaagtcgaca aaatgtgtnc aagcaagttg aattctggaa 420
actttgagtt tagcaaatag gagggtaaga aggctgttac cgtatttgag gaaccagatc 480
ttgaagggtt catattccat aataagtata atatgaatat taattttgna atagaacagt 540
ttctacctgt ataaaaagga agccttaaag agatngaagt tagagattta ctcatanggg 600
ggatgattgg taactactta cttatttccg gaatntcaaa agaccctant ggaatngggg 660
gattntangg ggaaaaaaat ngacctcttt tctcaaagat gaaactgnaa attttttttac 720
cttaagaccn ttgnaanaat ggaaattacc tttttaacct tgg 763

<210> 3609
<211> 730

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 3609
cgtnttcaaa ttttnaactc ttgtcttttg caggatccct cgattcgttg gtgtgtaaat 60
aaaactttag aaagggtcta ttgaactttg gacaggcaag ctccatgagc tctccctcac 120
tctttgaggc aggttaaagg gtacggccat gaccaccacc ttaatccttc agggactatt 180
tacaaaagat tgaaaaatgt gcccagggcc cgtacctgcc cctctgtgga actagcccaa 240
ctcaagtggg ctggcaggca agcctggctt tcatggggac agaagagaga gtttgcgggg 300
agcttggcat ttttcaacac atgctttttg gcttctccta ctgnattgna atttccatga 360
tatttggtgg gaaaaatgga cacccggnct cttttgcttt ttgnctgctg cttttcagct 420
attggggatt ctgcgccttg ggataatgaa gcangctgtc atttncttcc cctaaataat 480
gcattacaaa gtggaaatgc aaatttcctg tgcaagctct aaataccagg tggtatttcc 540
ttaatatatt gnttttgacc tttggggaaa ttggtattac nagctgactt tggaaattaa 600
aatacatcaa ggncctcatt ttaaataaaa caatcgatat cttaattttt aaatcagact 660
ngattcnatt ccnggaaaag acatncatat ttgctttatg nggtnaaagt ttggaattca 720
ggaggacaat 730

<210> 3610
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 3610
ntttgaaatt tcgntantnc ttttnttttt gcaggattca tcgattcgaa ttcggcacga 60
gatacgatgg ggtgcttggt ggatgggcca tggaggtccg tgagctggaa ctgggcacac 120
gccatcccag agggctcagg atgccccagg aaggaaagaa gggcaacaga ctacacgatt 180
ggacgtgtgt ggttgactgg gatgaagttg gagggagggg cagggccttg caggggattg 240
gtactgatcc cagggaggaa agtgttgggg cttcatgaac tangatgaaa ggagcccctg 300
accatgacaa ggggcacatc caggatttnc gccaccctga atttagtaga nctaatangc 360
cctggttgtt actnttgggc aaggaatgcc gtnaaccttt ganggtncgc acccacttgt 420
gtgttgccct cttgtnctgn cggggaaaca tncacccctt gtcttaacca ccaaactttg 480
cttgtgtnnt cancaanggt tgncctttcc caangactta ctgnatgtac ccngacccta 540
agccttgcct ttcacatatt nggagctttt ggattcatnt gactttgacc ccntctgctn 600
tcacttgngg cctgaactgt tgatcaatgt tggcanaatn aaccnccttn tnnanctaaa 660
gctactttac catccatata atgggattna aaaaaaaaaa aaaaat 706

<210> 3611
<211> 885
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(885)
<223> n = A,T,C or G

<400> 3611
ttnttcnaan tttcggantn ctcnttctat tgcaggattt natcgtcctt aatttcggca 60
cgaggcaagc tggagagctg cagaggctgg tagcgtggct cagtccaagc acagaggcct 120
cntnaccatg gaagctgatg gtataactca gtctgaggat gaaggcttca gaacctgggg 180
gactacaggt gcaagttctg gagaccgaat gctggagaac cttgagttct gatgtccaag 240
agaaggagaa aaaggacttc ccagctccag aagagggaaa aagcaaattt ggctttcctc 300
tgtcttcttg ntctatctgg gtcctctgct gantggatgg tncccaaaac ttttgggtga 360
aggtagggct ttcttaccct gntcatggat tcaaatgcca atctcttttt ggaaacactt 420
tttccagnac ataccccctt naaataaaaa tnttttancc ttgtatcttc ttnttaaaaa 480
ntaataaaaa aatttttaat attnntatnt tncnntnttn nnnnnccntg ttnaanntnt 540
atttttnntn anngactnaa ntcnntacnn tnnctcttcn ntannatnna antntcnant 600
tnancttnna ntnnatcttt tntanntnan ntanatcnnt tntannncnt tnnatantna 660
ctatnntctt tgtttantnt cacanttatc tnntctctnt nntatgttnt aattctactn 720
tnnntattta aaatgtcnat ntntatctnt nanaccatnt tnncncanan tntttatcta 780
nttctananc ctttatnntn ttntcnttat ttnntgtctt gtntntatcn attttnttat 840
ntncnnntan tnctntantt nttannattn antananntn tnccn 885

<210> 3612
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 3612
gnnnttttaa atccagctct tgtcttttgc ggaccctcgt tcgaattcgg cacgagaatt 60
gataataatt agacaaactg aactaaattt ttttaacaga tacctgagtg ccaagcttaa 120
cagatacctg agtgccaagc ataataaaca ggaaatatac acttcaaaaa agaaaaagaa 180
aaatgaatgc atacttatca aatacttgct gtaagagcat taagtacttt acataagtca 240
aatcatttaa tcctcatgac cctaagaagt tattttaaag atcttttgag aatgagaaaa 300
aaggatgagt aagggtaggt gatctatgta aaacaaataa attctagtna ctggcaaagc 360
tgagatttga cctaaatcaa tctgccagaa gttctgagtt attttccatg tgcctcacat 420
agcagaaagg gagatggcat aagcacatnt caggcctaga ggtaacatat actctggcaa 480
aagcntaaaa ggtctatgaa attttacagc aaggaaaggc tatttctaac agggaggact 540
cagaggaaag gaagccaccn tttaaagttt gggtacctgg aatnaatttc ttaagacntt 600
tccccagatn ggaggacccg gggaaagaaa gaaanccttc ccaggaaggg ccaanccngg 660
agccatggtg gtcaatggtg gtggtttaan gggccngaaa aaaattnggt ggggaaaccc 720
cnacccccag gnccngggaa aaaaaannnn nnannnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnanaaaanc ctc 793

<210> 3613
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(870)
<223> n = A,T,C or G

<400> 3613
ntttnnnnnn tttagngggc cnttgcgntn gntctttctg caggatccct cgattcgaat 60
tcggcacgag caacagtccc aaccagtcga attagaccca tttggtgctg ctccntttcc 120

ttctaaacag tagatacttc tgatggattc tcggcattaa ctcctgtttc aaaaaagtgt 180
gaacagtttt atgaatttga aagaaaattt gggtagctct ttatagcatt cattcttaaa 240
gatcagtcca gaatanggtg attctaaata aacccaatng aagaatgaag tatctctaca 300
gggtagtaac ttggattcct cttcagggag aaaaagggag ccttaaattt gcaagcctct 360
taacctaaag gggtttcttg gntncctngc cttttccaac cccccnnaaa tggcnaagtt 420
gttgggggcc ctttncccat tgnnnaaaag ccccctttgg ggaccntttt ttaangggng 480
gngttanncc cncnttttnt aaaagggncc ccntnggaaa cccggtggan ttttttggat 540
attcncnaaa agnggcaatt tttttattgg ngcnntnttc cccttcaaaa anttangggg 600
gnaatttttct accataccnc ttaagtttnc acccttnngg aaaatttttt ttttaaangg 660
gccccntttt taaaatttcc cagacaaggt taaaaaccna tnttanttat tntttnaaag 720
ccntttnnaa aaggtattat ttttngnnna agggcnntaa anttttnagt ccttannccc 780
tttttttcnc aaaanctanc cnnnaattaa ccgcntttt ggggcctaaa anaactnggn 840
catttttta aanaaaaggg ccntnttaat 870

<210> 3614
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1046)
<223> n = A,T,C or G

<400> 3614
ggcgggtcct ccgnggaaaa acccctttn gggaaattcg gggtagnnga aaacnctttg 60
gggnaaacct ccgncgcnna aaangcgcng agnnnngngg aacggngnnc cacnngcann 120
nnnntnnggn gganccccnng gnacgggttt nccnccttn nancgngacn ngngggcacg 180
ggggancngn gcacnagnan canaangcac ggagccggcc nnaangngan agtaanncnc 240
ctaangaang tagangannn aaacatggnt ncnccacaag gcangagcag caccttgggg 300
ctgctggnaa gcccnnnatn atgggggncn ncttggacna ngtncnggca naaagggggc 360
gggggcatnc naanccnnnc ccctcnncat nngcaancnn cnnancgggg naacccaacc 420
agngcgaaat anccancggn gccntnaatg cgcnaaacca nggggcanca cggagggncc 480
tnngcgcggn nacaaggcnc acccctngna cacgngngng gggnacnnca cncccanacg 540
agcnggcanc gnanccccnn ncatnanggg acccctacnn nnnnggggcg nnannntnng 600
cgnnggggggc acantaccan nanacaccgc gngcganaca nncnttccaa accacggacg 660
aaannaccnc gggagnatan taanaccnac nnccaaannng gnncangcac aatcggcaac 720
ccntgggnnn ntncntnang ggagcccgga ncccccccacc cagnntccnn ganannncaat 780
gnncnccnnt cnannaccnc nccnntaanc cnggggcnca gngggnaang gnngangccc 840
ccnnnacggg ggncnttana gnccctaaan antnaccccn ngnntncaca aacnncaana 900
agnggcnann ncccctcggn ganncaaaag nncgcgancg cnnnnancnc cnnnangntc 960
ntcngnncnc nccacnnggn cntccgcncc gggagnncan nggnnnnccc ctncnctncc 1020
naaaagcngn gcntcnnnca acccnc 1046

<210> 3615
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3615
agggctgctc ttgttctttt tgcaggatcc catcgattcg aattcggcac gagaaaagga 60

gccagaactt gatgattttg aaaattctca gcctttctgg ttggcagagg gtgatgaaat 120
tgagacacgg caaagatcaa ttcaagagcc actccgggga gaatggcggt ctaaagataa 180
agccaagact gtgcctttaa agcctgctgt taagacctga naaggtagtg ccttagcatc 240
ctcttcagtc acactcaagg cctctccgtc aaacaatagg gcttctacct ttttagcagg 300
agcccaaggt agaggtanaa gagttcctct tggagagatc tatgggtata gcttttgnct 360
attgcngtga gatatgcnng aaatccactg tagctaggac tgacnngaaa agaacngtnc 420
naaatgaaaa gagctgtcgg caccctagc attctgctgg caggaaccag ctgagaaagt 480
gctcangact acacatgccc ctttcatcaa aagggaaaga tgactcanaa gttggaagca 540
ngagcctaga natgaaggcc aaaagtcatg ggagaattct ttttccaatg gttgagancc 600
taattcangg aactttcaag nggtttgncc ctggctngga attcannaag tccagtattg 660
ggatcaatgg actcttttg nngccccccc caantttcct gggcctttcn ttttggtang 720
aaaaaagggt ttttnccccc ttt 743

<210> 3616
<211> 906
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(906)
<223> n = A,T,C or G

<400> 3616
gnnttnnttt ttctaagggc ttgctccttn tntttctgca ggatcccatc gattcgaatt 60
cggcacgagc ccacacntgc catattgaac cgtttctgca ctaatcttct ncacgggcac 120
ngcgtggagg gaacgtctag gggaaanggg agagcttgac ctccatctag gttacttta 180
tctggnnaaa aangaacact ttttggactt antgtaatng ctntngnccc tgtaaaaggc 240
aangctancc ncttaacttt cccanntnna ccttttnagc cagggaacca aatgnaaagg 300
gttaatggtn tnncatggaa caggactact ttgcttcccc tttggnggac aaantttccc 360
tagaaacaan cttacccttn aaaacaccca aaaacnttcc caancccccan cntggnttgg 420
gcattagnga agcatggtng gtncccaaac tttacccaaa aggggacntt ggggagccca 480
ccctttntga cttcttgtgg gaaattactt tntannngag gaacctggac ttggccttgg 540
antanaaaaa ccccttgtaa atttnccctn naanttancc nnattccccc taaaagacnt 600
tttntnttgg gaaaganttc atttngcctt gntacntatt tccctttttt tgnggtggca 660
ttaaaattaa ttttatttaa accttggttt caaactggac caacatttgg gttttcttnc 720
caacttangg gaaatttttg gaanttcnaa aactgnttcg ccttttgaaa gancttngct 780
tttttttgg naaaanngtn ttnggaattt gggctgttaa ccnaantttc cnttnttgg 840
aatcccnnna ggangggcn anatatcttg gggcaaaaaa aatnnctngg tacccctttt 900
tggntt 906

<210> 3617
<211> 1235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1235)
<223> n = A,T,C or G

<400> 3617
ctaatnctgt aacctanntt tcttgacgcc nncntcgcnc taaactacnn tgnctnnggn 60
nctccncccc tacnccaccc ctcacccccn tcctttnnnt ctccgnngcc tnccccccccc 120
ctcccnnctn nntgcccnnc nccctanccn ccccncnnct tcnnnctcgn cnntcnctct 180
ccnttcccnc ctcncccccc tcctcncnnt ctnnccccct cccccccctc tccgcacctc 240

tctntccccc tcncctgtct ccccencect ncccttcccn ttcctctncc ccnntacttc 300
cnctcctccc ncactcccte ctctcnncen ctncctntnc tncencteen ccccccctcc 360
ccctctcacc cncettcccc cnnnncccct cccccctctc tnnntctcct cnncccncnn 420
ctcctccttc tccctnncan ncccccctcnc ncccctctacc ctnctcccct nntcctcect 480
ncctacctcn accttcccte nnncentccn acncnannec tctcntctnc tccntnctct 540
cnctnettcc ctcctnccta tnccnncntt ctcccentit ctccnnctcc tcctcccicc 600
nnctcctcct ctcnttnnat ccctctcttc ccnncncntc tcngcnntct ntcntctctc 660
ttcatcatct ctctcacatc tctctctctc tctctcnctc tccactctct tctcntnttc 720
taccctctct cnctctntca ctctctcect ccctctancc ttnctctctc ctcncccttn 780
tntcctncct ctctcntccc tcntccttcc ccnntcctcc tctctcctcc ntctctctcc 840
nacctcctcc tccccccttca cttcctcccc tctcctcttc cttcccccncc tncctctccn 900
cccctncncc ttcnngncat cccccctctt ctctcncctc ttccnnncce ttccttctcc 960
tcanctcacc ctnctncctc ctcctcttcc cctcctctcn atccccccce ttctctctcc 1020
cctctatccn tctccantcc tcncctctcn ctcnnctiac tacacnctcc ctctcccccc 1080
ntntcctncc ncctcctatc cctctcnatt cctccnettc tccttntcnc ctcnttccct 1140
tctcntnctc ctctcccctt ctntcctnct ccctccttcc ntctncncct cctctcntct 1200
ncttcttnct cnctctcccc cnntctcctc ncccc 1235

<210> 3618
<211> 999
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(999)
<223> n = A,T,C or G

<400> 3618
ggntatttna antttctaa aagcttngct actttganct ccgtnggatc ccatcgattc 60
gaattcggca cgagcccaac cccaggtgtg ccgcgtgctg cccttgagag ccctgcccen 120
cgctgtgacc ccggagatgc ncgccctggt ggtagactgg ctggtccang tgcacgtagg 180
agtacctggg tctggctggt gacacacttt atctggcggt tcacctgctt gattcctacc 240
tgagcgctgg cccgngtgcg tntacatngt ctgcaactgc tgggcgtggg cttgcctgtt 300
tgtggcgtgc aaaatgggaa aagtgcgtgc tttccngaga cccnacttnc tnttgnntct 360
tgnnngcgga nnntcttttt ttannggggng ggaactttat tgnnctnccc aaacnntngc 420
anttcntnnn nccnccnctn gaatttttcg ggcttnanta ccaaannccn gnnccganng 480
nttgtancct tncggacttt tttggnncnc ntccttttnc aangganatn aaatcccccc 540
aagttgaaat ntttancatt gtgncannen taaatttnct tgggaanctt ggtantttig 600
acttgganag ncnccnaatn gccnnnccng ggattttgga aaaccccggg ttnnctnatn 660
ngcnnggttt ttgngnnatt ttttttnnacc cttngggngn ccaannnnnnn attttggntt 720
tctaaaatng gggggcctng gggcttttca atnggggttt tcatagcncc cannnaaaan 780
tnttttttaac aatatacccc ctnanngngt aaantttgng ggnanaaccc ccttttttnat 840
aagnccccin ttntnaaaaa atttttntta aaatggnnan atcnnntnta tttttanacc 900
tntanganaa atttctcacn tnaacatttt tgtnatatan nnggatnnnc anaatatttg 960
gtnanccaaa aaatatttta tgttggacnc cnaaaaann 999

<210> 3619
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(879)
<223> n = A,T,C or G

<400> 3619

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gggggttang nccattttga tgttacagga tacttgtaag tgacttttg ccattctctt 120
ttgttaccca tggcctttgt caccccctg aatatctctt ttactcagtt ctcactttct 180
gttgttgaca tacttgttga catgtnccac cantccatga aatgaaatac catatcttcc 240
ttgtgtngat atnacttttg tgagtattta agacatatat nntnaacnaa tgtaaaactt 300
nnnaaatnga ttctcttctc atnaaaaaac atttaaaggg aacattnana atatnctnnn 360
nacntttctc tgaagacctt acnatttcta ttacttcaaa actcccnnta natcancctt 420
ctactacnag agtgaangga anaccctaac anatctnccc tngtganttt taccttgat 480
ctacaangcn ctcctttcac nnttcnnggt cnttcttacg ntanccgnat cctntttcct 540
ctntttcccc anccatcctt ccccnataat tgccccntcn tcnanttaac cctcnctctt 600
tgcnttgnaa cccctcgccc ccctccntcg cnnccctttn cttnangatn ctccccctng 660
ccatccnnac ccttcgcnnt aacccccanc ccctctncta ccttttcntc caaaaacgtn 720
cctnccatcc cctantcggn nantctngnc cctcnannna tncntacctc tcaanctcnc 780
cantcaaacc nccacattcn cccanannac aaannengnn naccnnnnta ntccatntnt 840
acactctccn nanctcactn ctcnccnnnt acnctacct 879

<210> 3620
<211> 959
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(959)
<223> n = A,T,C or G

<400> 3620

nngttntttn aattttcnna agncctncgc tttcaaacct tggatcccat cgattcgctt 60
ggggtgagtc tcatcttcac cctttcacca actgtcctgg taacaatctc ccttccattt 120
ccttgttctt acagcatacc ccatagaatc aagcctcgtt attgccaggg ctgaactgac 180
ttttttgttt ttgtttttgn tttaagcagt accattgngc accttgggaa aattcctgtg 240
ttgatctaat tttaccatat tcttcactcc actgaccact ccaattagga tactcctggc 300
actcttggnt ttagagaggc ttagatatgt ggctatttat cctttggnc ttnancactn 360
ggnttttgnc ttttanctaa accnggantt ttcctgggga nccaaaaact tgnnaaatng 420
tttnttttcc cnaggaagtc ttcaaattnn gggaaaaccc cccaangcct tgtgnggggt 480
ttttggccan ncnaagggcg ttantattnt ngnnctnata atttttcggg gttggaaaaa 540
cccaactctg gttgggnttg ggggaatggn nccttttnaa aattttggcn ggggngnatn 600
tttcttggaa taggccncct tgggaaaacc cccaaaatnc ttggaacagc ccgcaaataa 660
anatttgggg nccttcnctg ggnncnttct ttaaaanaaa nggcctttgg gnancctttt 720
tnggggggaa aaagntgggg gccctattta aatttcggaa aacggaaata cgtntccctc 780
ancaactttt naaaanaann tncataaagg nnaanaaata acctttgggg ngccccttt 840
aagaaacccc ttttaatntn gngaccnnnn nattttaacc cttngaatat cccaggancn 900
tttggtttaa aggaanccnn ttttggatcn aaaatttttg gggacaaaaa ancccccct 959

<210> 3621
<211> 839
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(839)
<223> n = A,T,C or G

<400> 3621

tggnnttttg aaattncntt agggcctgct cttttcnaat cngtnggacc catcgattcg 60
tcctatttta cgtggttgtt gagaggatcc gatggaatga ctagctgaaa gtgtttgtaa 120
aagtcaggat aagtaaagca atgctgcagg aacaaacaat ccccaaattt cagcagctta 180
ctacaaaaaa atatgtattt ctcactcatg ttcatgtcca atgtgtgtta gcaaggagat 240
actgtctctc acagtcatgc aagacccctt gctggggaag ctgcacctnc atatatgctt 300
ctaccatcac cagggcagag gagagggagc atggtggatc atcactggct cttaagactt 360
tacttgngng acatatgtna cctntactca tggntnatnn ggccaaccaa ttacatgggc 420
atagnctnac tttaaaaagg gcaggagaag tgcaaactta tcatgggccc caaggagaag 480
agaatcanag tatttctgaa cagntttaat ttttggccag accttgaaag tncttaagaa 540
attagcttcc aaaaaatatt atggaatatt tttcaattct tccaaagcca gcctggtant 600
ttnggattca ccaaccggga aaggtccctg gnaacttctt aaaacttggc naggggaggc 660
cttttacctt ggaatggtnc aannaaattt anctcnattn aaantttcaa accaaggggt 720
caaaaattcc aaccgaatgt tnanccaant ggggncncca aacctttgaa acccccngnng 780
nncccncttt nacttaagct tacttgnnnn accngaactg ggnnnaaaan ntnntcccn 839

<210> 3622
<211> 874
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(874)
<223> n = A,T,C or G

<400> 3622
tnnnnnnnnn aagagnnnnn ntttgaanct aatgctgggc tacttgttct ttttgcagga 60
tcccatcgat tcgaattcgg cacgaggcgg ctggcggcaa aacctctcga tgagcccctg 120
cccgatgccg cgggggagag gccgngacgg gaccgagaag tgggctggga gcagaggtcg 180
cggatgtggc nagcgaggcc ggggcccatg cngggaccgg aaggggcccn ggagtggcng 240
gcacgccagg gtcagggtgc cggncgaggg angggcccg gggttnggga aggggnccng 300
gtgagggagg ttaaacagcc ttgcaggcct nngggnaccg atgttggacg gcnccngcng 360
natgtgcgag ggcccgtccc gcatctcggg gcccatcccc acatacngac gctctgtcct 420
gacaactnca tgctgccgac tcngctcaag ggcgcctcga tggaaaccgc tgaactggac 480
ttgctgactt ccnacgggcc ctggacacna ncgntgccnc tnggcccctg gcattangtc 540
cnggnggccn gaaaaggatn ctggnagnnc cggtncagcg ccngcctttc gggngacntn 600
ncttnnntgc naacttcgag ggggggatct taaccttaag gttccctggg gngccctttt 660
ttttaaaaga nnggaaaagg gacnccctta angggncccc nttgaaaaaa agggatntaa 720
acccttggan ggcccggggt tncaannggg aaagaaattt tcaaaaaaan cctcnttttt 780
taaaaaaaaa aacccnnggg aaacnctntt tancccnng ggnaannnct angggggnc 840
caantncccc aaaagggncc ccccctttgn aaaa 874

<210> 3623
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3623
agagnnttnn tntttgactt tnatgcttgg tctactngtt ctttttgcan gatcccatcg 60
attcgaattc ggcacgcagg tnngatcctg cactcnnttt anngagccct tgncnnaatg 120
ccntgnngga gaggccgnga gcgggaccga gaagtgggct gggagcagag gtcgcggagg 180

tggcgagcga ggccggggcc caggcgggga ccggcagggg cccgggagtg gcgggcacgc 240
cagggtcagg gtgccgggcg agggaggggg cccggggttg gggaaggggg cccggggagg 300
gaggtaaaca gccctgcagg cctcggggca ccgttgctgg gcggcgccgg cggcatgtgc 360
gagggcccgt cccgcatctc ggggcccatc cccccagacc gacgctctgt cctgacaact 420
acaggcggcc gactcggctc aagggcgcct cgagggaaac gcgctgaact ggacttgctg 480
acttncgacg ggccctggaa ccacgtcccc gtggcccctg catcggtccc ggtgccggag 540
agatcctgga gcgcggccac gcggccgtcg gggacgtgct gttgcaactc agggggggatc 600
tncctaggtc ctggggcctc ttntcaagan gaaggaccct taaggaccat gagaaggaga 660
acctgagccg gatcaaggga gatttaanaa acctttaaaa gaacanganc cccaacccng 720
ggancaaggg ccaagccaag gccccttna 749

<210> 3624
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3624
agagnnnnnn ttgtanctna tgctggnnta gcgtnctttt tgcaggatcc catcgattcg 60
aattcggcac gaggcctccc gacccccccc ctccccctcc ccacctatcg tcatgacggc 120
ctctccggat tacttggtgg tgctttttgg gatcactgct ggggccaccg gggccaagct 180
aggctcggat gagaaggagt tgatcctgct gttctggaaa gtcgtggatc tggccaacaa 240
gaaggtggga cagttgcacg aagtgctagt tagaccggat cagttggaac tgacggagga 300
ctgcaaagaa gaaactaaaa tagacgtcga aagcctgtcc tcggcgtcgc agctggacca 360
agcccctccga cagtttaacc agtcagtgag caatgaactg aatattggag tagggacttc 420
cttctgtctc tgtactgatg ggcagcttca tgtcaggcaa atcctgcatc ctgaggcttc 480
caagaagaat gtactattac ctgaatgctt ctattccttt tttgatcttc gaaaagaatt 540
caagaaatgt tgccctggtt cacctgatat tgacaaatgg gacgttgcca caatgacagg 600
agtatttaaa ttttgagaag agtagttcaa tctctcgata tggagcctct caagttgaag 660
atatggggaa tataatttta gcaatgattt cagancttat aatcacaggt ttcagatcca 720
gagagagtgg attncaagtt 740

<210> 3625
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3625
agtnnttnnn tnangaatcc ttgctggnnc cgcgtggctt tntgcaggtn gcccatcgat 60
tcgaattcgg cacgaggcct cccgacccct tttctccccc tccccaccta tcgtcatgac 120
ggcctctccg gattacttgg tggtgctttt tgggatcact gctggggcca ccggggccaa 180
gctaggctcg gatgagaagg agttgatcct gctgttctgg aaagtcgngg atctggccaa 240
caagaaggtg ggacagttgc acgaagtgct agttagaccg gatcagttgg aactgacgga 300
ggactgcaaa gaagaaacta aaatagacgt cgaaagcctg tcctcggcgt cgcagctgga 360
ccaagccctc cgacagttta accagtcagt gagcaatgaa ctgaatattg gagtagggac 420
ttccttctgt ctctgtactg atgggcagct tcatgtcagg caaatcctgc atcctgaggc 480
tnccangaag aatgtactat tacctgaatg cttntattcc ttttttgact tcgaaaagaa 540

ttcaagaaat gttgccctgg ttcacctgat attgacaaac tgggacgttt gccacaatga 600
cagagtattt aaantttgag aagagtagtt caatctctcg anatggagcc tttcaagttg 660
gaagatatgg ggnaatntaa tttagcaatg atttcaganc cttataatcc anggtttcag 720
atccngagag agtgnattac aagtt 745

<210> 3626
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 3626
agtnnttnnt tntgactcnt tgctggnnna gcgggctttt tgcaggaccc atcgattcga 60
attcggcacg agccccaccc attagttntg tgggcctgcc caacaccttc ctgggttcac 120
atccggccag acaagaaaga agccaaaaaa ctttccgtct accactgcgc ctcctcatgc 180
ccaccccatc ctattagcct aaaatggaac gggctaatta gtttatttgt atagggaggg 240
gtttcagctg cctggacaaa accaggagtc cactgtccaa gcttcttctg ttttcctgag 300
ctcagaagaa aaaaagtgtg ttagactaag ataataccgc cttttgaata tctcggcttc 360
atatttgcct ccatgagtga gagggccaag tgttatctgc aagttgaatc ttctatattc 420
aaaaatctcc atccctttt tctgccagcg cattcccaga tcagccgttc acttgctcta 480
agcctctata atctatgatt ttctttnctc tttaacctgc tctttccatt ggccagttta 540
ttcatttctc agctacagct tcagaggggc tcaccttcng gcttccgncc caagggcatc 600
tggaggcttc agttctgntt tctctgctga gtcaggagcc agcccacttg atttggctcc 660
cgtgtatctt tgngtctctg ctcantctnc tgctagtgtg ccttgggtgc ctcatcaatc 720
tctttccatc ctggg 735

<210> 3627
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 3627
agagnnnnnn ttttngncta atgctggnnt actcgggctt tttgcaggta gcccancgat 60
tcgaattcgg cacgagcccc acccattagt taggtgggcc tgcccaacac cttcctgggt 120
tcacatccgg ccagacaaga aagaagccaa aaaactttcc gtctaccact gcgcctcctc 180
atgcccaccc catcctatta gcctaaaatg gaacgggcta attagtttat ttgtataggg 240
aggggtttca gctgcctgga caaaaccagg agtccactgt ccaagcttct tctgttttcc 300
tgagctcaga agaaaaaaag tgtgttagac taagataata ccgccttttg aatatctcgg 360
cttcatattt gcctccatga gtgagagggc caagtgttat ctgcaagttg aatcttctat 420
attcaaaaat ctccatccct ttttttctgcc agcgcattcc cagatcaagc cgttcacttg 480
ctctaagcct ctataattta ttgttttctt ttctctttaa cctgctcttt ccattggcca 540
gtttattcat ttctcagcta cagcttcaga ggggctcacc ttcgggcttc ccgccccaag 600
ggcatctgga ggcttcagtt ctgntntctc tgctgagtca ggagccaggc ccagcttgat 660
ttggctcccg tgtatctttg ngncnctgct cantctctgc tantgtgcct ngggtgcctc 720
atcaatctct tccatcctgn g 741

<210> 3628

<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3628
agagnnnnnt tntanctaat gctggnatag ctgggctttt tgcaggatcc catcgattcg 60
aattcggcac gagcttgatt aggtctttag gggccgaggg actagccagc tgcacaggtg 120
actggatggg ggaggggcan gtgaggtggg tctacagagg tggcttcgcc tttgaccttc 180
atgctggtct cggctgaggt gacacgctag tgacagccca tagggggtt acccttattg 240
agtaaaatac ttcagattga cagctcaatc ttagtttgcc tccagttaat cttttatgct 300
tagggattaa atgtgtggtt ttttntttgt nnnnnttttt tggagacgga ntctcgntct 360
gtcacccang ctggagtgca gtggcgcgat ctcggntcac tgcaacctct gcctcctggg 420
ttcaaacgat tctcctgcct cancctccca agtagctggg attataggcg cccaccacca 480
tgcctggcta gnttttttatt nttagtanan atggggtttc acccntgttg gccaggctgg 540
tctcgaactc ctgacctgct ngatctaccc acctnggnct cccaagtgct gggattacag 600
gcgtgagcta acatgcctgg ccaggggatt aaaatattca aacatgttgn gtgtacccag 660
atatgctgnt aatttangaa aaacagtnca atttctatga aatgggtggg gactatttnc 720
tgtantcaat acattnggga tat 743

<210> 3629
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3629
agagnnnnnn ttgtanctaa tgctggtnta ntctgtnctt tttgcaggna tcccatcgat 60
tcgaattcgg cacgagcttg attaggtctt taggggccga gggactagcc agctgcacag 120
gtgactggat gggggagggg caggtgaggt gggtctacag aggtggcttc gcctttgacc 180
ttcatgctgg tctcggctga ggtgacacgc tagtgacagc ccaatagggg gttaccctta 240
ttgagtaaaa tacttcagat tgacagctca atcttagttt gcctccagtt aatcttttat 300
gcttagggat taaatgtgtg gtttttttttt tgtttnttttt ttttggagac ggagtctcgc 360
tctgtcaccc aggctggagt gcagtggcgc cgatctcggc tcactgcaac ctctgcctcc 420
tgggttcaaa cgattctcct gcctcagcct cccaagtagc tgggattata ggcgcccacc 480
accatgcctg gctagttttt tatttttagt agaatggggt ttcacccgtg ttggccaggc 540
tggtctcgaa ctcctgacct cgtggatcta cccacttggc ctcccaatgc tgggattaca 600
ggcgtgagct ancatgcctg gccagggatt aaaaatattc aaacatgttg ggtgtaccca 660
aaatatgcct ggtaatttag gaaaaacagt ccaatttcta tgaaatgggt tgggactatt 720
ttctgtagtc aataccaatg gggatatct 749

<210> 3630
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(750)
<223> n = A,T,C or G

<400> 3630
agtgtnnnct ttgaaacctt atgctcggta tagctgggct ttttgcagga tcccatcgat 60
tcgaattcgg cacgagagca tgccctaaag agggaccagc tgtagtaggt cagtttattc 120
aagatgtcaa gaactcaagg tctacagatt ccattcgtct cttagctcta ctttctcttg 180
gagaagttgg gcatcatatt gacttaagtg gacagttgga actaaaatct gtaatactag 240
aagctttctc atctcctagt gaagaagtca aatcagctgc atcctatgca ttaggcagca 300
ttagtgtggg caaccttcct gaatatctgc cgtttgtcct gcaagaaata actagtcaac 360
ccaaaaggca gtatctttta cttcattcct tgaaggaaat tattagctct gcatcagtgg 420
tgggccttaa accatatgtt gaaaacatct gggccttatt actaaagcac tgtgagtgtg 480
cagaggaagg aaccagaaat gttgttgctg aatgtctagg aaaactcact ctaattgatc 540
cagaaactct ccttccacgg cttaaggggt acttgatatc aggctcatca tatgcccgaa 600
gctcaatggt tacggctgtg aaatttacaa tttctgacca ttcacaacct attgatccac 660
tgttaaagaa ctgcataggt gatttcctaa aaactttgga agacccagat tggaatgtga 720
gaagagtaac ccttggtcac atttaattcn 750

<210> 3631
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3631
agngnnnnnn ttttanctaa tgctggncta ctngttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgagagcatg ccctaaagag ggaccagctg tagtaggtca gtttattcaa 120
gatgtcaaga actcaaggtc tacagattcc attcgtctct tagctctact ttctcttgga 180
gaagttgggc atcatattga cttaagtgga cagttggaac taaaatctgt aatactagaa 240
gctttctcat ctcctagtga agaagtcaaa tcagctgcat cctatgcatt aggcagcatt 300
agtgtgggca accttcctga atatctgccg tttgtcctgc aagaaataac tagtcaaccc 360
aaaaggcagt atcttttact tcattccttg aaggaaatta ttagctctgc atcagtggtg 420
ggccttaaac catatgttga aaacatctgg gccttattac taaagcactg tgagtgtgca 480
gaggaaggaa ccagaaatgt tgttgctgaa tgtctaggaa aactcactct aattgatcca 540
gaaactctcc ttccacggct taaggggtac ttgatatcan gctcatcata tgcccgaagc 600
tcaatggtta cggctgtgaa atttacaatt tctgaccatt cacaacctat tgatccactg 660
ttaaagaact gcatangtga tttcctaaaa actttggaag acccagattt gnatgtgaga 720
agagtacctt ggtcacattt aattn 745

<210> 3632
<211> 1304
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1304)
<223> n = A,T,C or G

<400> 3632
gnnagcgttc ncncttntng gaaaccnttt cnaantngct ggggaacncc gaaatcgcnn 60
nnagggtcgc natgcgantc gcaaagtcat accaaaactt cacttaagta gtccctattt 120

ttactccagt gcttatnnca ttatctagca gaatgtacct tcattngatc cactatttac 180
cantgattaa agtggagcng tcngtggagt tatacgnnac tnngnagact tntgtctanc 240
gaaatacann anacaaccnc anaggaccat aantttnatg cctatagaac atnnnangaa 300
acaggagcag gatcntngtc tataatatan caaacttgnt tnnacatacc tancnacaac 360
ctacaaatgc tcttanaacc ancctanctn antgctnccn agttttnctn ggntnaactc 420
cnactnttng gngcaantgc aggntcacnt anctncnatt cccnantgna naaactnnnn 480
ccccnnanan ctntnntnta gctcannnct ctttaacnac ntnnnnatnc nttntannat 540
cagccaggnc accnacanta nttcanttcn ttnnccaatc annactgnaa tntnncnctt 600
nnctntttnc ncttctnnct aacatcacgg ctatncgcnt aaatnttcta cactcacggg 660
tgananactc ggnctnacan tctncgggag nctatacctn tcgcnnnnca cagtntgcgn 720
tatnncncaa taagaanaan atctncnctc nnananantc nccnttcctn aaccannaca 780
nnntgnntct catnnacnnt ncgtaangcn agtacncgcn tantcancat actnacatan 840
nagtntatcn aactntncnc ttctntnanc tananacgtn tcacncttnc ntatanaact 900
cntattanac tcanacnngc tcctnngnga tngtnctctc tatnganann nnnncannnc 960
tanngnnnat nactccgacn gtacacctat ataatagant ctntacncct ctattcatca 1020
gatnnanttc tcanagantt nnnnntaaca ttatncncac tanacnatgn tcanccctna 1080
nattcggnnc nctacacntn ctacnccatc tcnagcntnn tacttctcac aannnancct 1140
nctntacncn ntacanatan tatcacanat ccncgnaant ntntntncnt cntagnngta 1200
canactncan tctatntcta cnnataaata tntcctatcn nctcanatcn cncntntant 1260
cngntacgnn tntcgcannc nctcctcatc ntntcngnac ncnt 1304

<210> 3633
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 3633
cnaaatncct gctacttttg atttccngna ggatcccatc gattcgccga tttacagatt 60
gaagcggtaa attagtggtt ttatggtatt tctgtaaaca gggataaagt ggaccctgac 120
aaattcaata ttgtctgaag agacaatcta ttctggttct gttggacttc agggtatttt 180
tctttttttg taaaatgaaa actacaaaga aacctgactt ttcaattttt tatacatgta 240
attttctaga aatctaggaa gtcatttaca catccttata taccatgagg ggcaaaagta 300
agctttcttc ctcccaaagc aaaactcttt ttccttaagg agctggaatg ccaccttgaa 360
attctgagtt ttgagctttc agtcattttt tggctggaat aggtgggtga aatttcctaa 420
gtctgctctg tgatgtnccc ctgaagggat gcancatgaa ccattggtcc ctttatgcga 480
tcatgtcccg ggctgcactn acanggtttg gggcanaaaa aanccaaaca tttcacccac 540
aggcaagctt gcttntcggn aacccccnaa gctgggtcct gcgacagaat ttggtnaagg 600
acccttnacc gnttggtcac tggctgcatt tgnngccaan accccccccc gcctnattnn 660
gaggatttta aaatttggan tgggttggct ggccttgcac ttccgnanct tatgcctaaa 720
aaaaattttc ct 732

<210> 3634
<211> 1278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1278)
<223> n = A,T,C or G

<400> 3634
ctaccgcctt atgntatcgn nctttccnna anananangc tnggcgaatt cggcacgagg 60
atctatctct tctccctgcc cattaaggaa tcagagatca ttgatttctt cctgggggcc 120
tctctcaagg atgaggtttt gaagattatg ccagtgcaga agtcnnancc ncccccccnnc 180
cncntcnnca cncccctcnc ncnttcctnn ntcccccctc ccnnntccnn ccnnnnnnct 240
nancancncn ctnacncnct cncnnctcnn ccncccncca ncncccnacn ccaaccnnnn 300
ccnnncnnnc ncaccancce tnntnnccce ncnnatntnc tccnanccnt acncncnctn 360
ttccntcntc tcncnntcnc cncnccttnn cacnnctctc ntacctccnc nctncntccc 420
nncnncnncc cccntctann acncctannc acccccccnn atacanctcn ccnccncent 480
tcncccccncn ntcanntcnn tnntccncnc tnnnncctcc ncnnntttnn nantccaanc 540
nacnnccnnt nccntcttct ntatcnctnc cttaccctcc tccctactcn ctctcncctc 600
cncctctccc tcnncctcnt ctnncntctc nnnanctctc ctcnnccccnc cncactttcc 660
anccttctnn ncacacccat tccnntacac nnncncnncc ctnncctcnt cacnnnntct 720
cncnctcctc ncnnanncnn nctncannac ncncnctccn ctctannann cnccnnncnn 780
ncnccncctn cncncatctc tnnctctnct cntntncnca tctcnntntt ctntcnncnc 840
acncacttcc actnntcnct cctcctannn ncanctcnnt tctncccnnc acnatnatnn 900
accncnnnnc tncatcnnnn tnatcccctc tctcnctctc nnttcanncn cacnacttcc 960
ctcccnnntn ctatcncant cnttcacnnc nctcttccnc tntatatntn ntacnctcnc 1020
ctctcacctt cacatcatna tacnacnaca cntctatnna nnctcncnct ctancnctnn 1080
ntacnnccan nnncnnctnc accnncntcc tttccncctn tctctnctnn catctnnnnt 1140
nantctntca nntctctntc ntnctcttnn actctncncn nctnncacna ctntctatnc 1200
nnccacnaat cancatcnct cctctctnnc cntctntctn nnctctntac tnancacatn 1260
tntcnctntc tctcccct 1278

<210> 3635
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3635
gnnnttnnan nccnnnttnc aaatngctag gctactngtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc tgtttcctca agaaaatgaa gagggaagga tggctcangg 120
aaagttaatc agagggaaaa tgtcactctg tanagagtaa aanatttang atgatgatac 180
gatctgggaa aaaanggcat agtgaanacc acttaaanac aaactgaanc ctatgaaggn 240
gcatgctatt tccccagagc tgaaaagata agtgaaatng tgtatgaact cttaagtgga 300
ggtgaagcag aatttattag ccaccaacca cataagtgat tatgaagtaa ctgagaaaca 360
ggtaacattt tttcccacat ggacaaaact ttctctttct agaatattaa gtctctatga 420
tgagaaatga agtagcatct caagcagttt ataaatctac canaatatta gaatcacctg 480
ggacctttga acgtactcat gcccaggtct actntattca tttattnttt tgtnnagatg 540
gggacttcaa ctcctggtct caaatgatcc tnccacctcg gcctcctaaa gtgtgaggat 600
tacaggcgtg agccctgtgg ccagccctac taggtctgct ttggaccaat taaatcaatc 660
tctgggggtg gaacctgggc tttaagtatt tttaaaaatt ttcctaggtg ggtctaatta 720
atactcggat tgagaaccct gctacacatg gaatnttatt cc 762

<210> 3636
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(770)
<223> n = A,T,C or G

<400> 3636
tnacnaatta ntntgctctc gtnctttccg naanaannng gcgnntcgtt gagacggagt 60
ttcaccatgt tggccaggat ggtcttcaac ttctaacttc gtgatccacg ctgctgggat 120
tacaggtgtg agccaccgcg tgtggcctct gggcaccttt tgaagctgaa gcagagagag 180
aaggcggcag gcatcagcgt tttcttctat gaacttataa gatcaaagac tttaagactt 240
tcactatttc ttctaccgct atctactacg aacttcaaag aggaaccagg agtacggaag 300
gagcatgaaa gtggacaagg aacgtgacca ttgaagcacc acagggaggg gttcaggcct 360
ccggatgact gcaggcaggc ctgggtaaca tccagcctcc cacaagaagc tggtggagca 420
gagcgttccc tgactcctcc aaggaaagga gactcccttt cccggtctgc tcagtaacgg 480
gtgccttccc agacactggc gttaccgctt gaccaagggg ccctcaagcg gcccttatgc 540
gggcatgaca gaaggctccc ctcttgcctt ctattcactt ctcacaatgt cccttcagca 600
cctgacccta tacctgccgg ttattcctag gttatattat taatgcaaca gagtaatatt 660
aaaagctaat gattaataat gtttataata atgatggata attggttcat gatcatcgct 720
gtatctaatt tgnattatga ctatncttat tctattntct ttatatactn 770

<210> 3637
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3637
tnacnaatta ntntgctctc gtnctttccg naanaannng gcgnntcgtt gagacggagt 60
ttcaccatgt tggccaggat ggtcttcaac ttctaacttc gtgatccacg ctgctgggat 120
tacaggtgtg agccaccgcg tgtggcctct gggcaccttt tgaagctgaa gcagagagag 180
aaggcggcag gcatcagcgt tttcttctat gaacttataa gatcaaagac tttaagactt 240
tcactatttc ttctaccgct atctactacg aacttcaaag aggaaccagg agtacggaag 300
gagcatgaaa gtggacaagg aacgtgacca ttgaagcacc acagggaggg gttcaggcct 360
ccggatgact gcaggcaggc ctgggtaaca tccagcctcc cacaagaagc tggtggagca 420
gagcgttccc tgactcctcc aaggaaagga gactcccttt cccggtctgc tcagtaacgg 480
gtgccttccc agacactggc gttaccgctt gaccaagggg ccctcaagcg gcccttatgc 540
gggcatgaca gaaggctccc ctcttgcctt ctattcactt ctcacaatgt cccttcagca 600
cctgacccta tacctgccgg ttattcctag gttatattat taatgcaaca gagtaatatt 660
aaaagctaat gattaataat gtttataata atgatggata attggttcat gatcatcgct 720
gtatctaatt tgnattatga ctatncttat tctattntct ttatatactn 770

<210> 3638
<211> 928
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(928)
<223> n = A,T,C or G

<400> 3638
ctaannatta attanntagc ctaaatngcn naacnntgnt tnngcttngg gcccaancat 60
ggnncctnnt aagtaagatn tntnnnnggg agctgganaa tcagnactgt cccagccgat 120

gggtngttcc nactgggagc anangaagcc ttgaggacct actcacanat angaattgaa 180
gattatcttn aaaacaatct tccactantt ctgacnatac ttggagcctg ntccacgtgc 240
atnccacctt gggaagcctc tncaaagagc tttcngagct nacactgaca gntncanttt 300
cccncanaac ccacnatagc ctngctgngt ctgtctnccc ggcangagtc catnctcact 360
gccgggacac tcatnacant ctccacgntc tncctcttcc cancctgnat ggagcctccn 420
nggctnnnga acgntnccca agtcaatnct cacnnatncc ngnagctgcc tntnagcact 480
nntcttggcc canctccctc cttgacanaa tcatnaccca ncatgacncn cactnngcca 540
tnccnntcna cantttttnn tcntcattnc atnttntctn cccatngnna cntcnnaacc 600
nnctagtana ccccancant ctcgnnatct ncncaaccng nncancnana cntttgntct 660
ttntncnntn tgatcntcca cctnntcttn tctnncnatn tncaataatc ntaattccta 720
nacatnctac tcttaaacnt ccnttnctta nnttcccaca catctgttna tacntatccc 780
tncctnccca tgnntnnnat ctcanntccc cnngncctnn annatnttac tcagccctnt 840
cctttatnna nntcnntnca ccncgnnagt nnnnccatan cnnanatttn nncancacan 900
cnctctcntn ttttcaaacc tncncccg 928

<210> 3639
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3639
gaacntatct ntgtgtagct cgnantnncc taaatanaat aggctgggng aattcggcac 60
gagagtgagt ggtcttacca aaaatccagt atccttgcca tccttgccaa atcccactaa 120
accaaacaac gttccttctg tgcccagtcc tagtattcaa aggaacccta ctgccagtgc 180
tgcaccattg ggaacaacac ttgctgtgca ggctgttcca acagcacact ctattgtaca 240
agccacaagg acttctttac ccacagtggg cccatcagga ctctatagtc catcaactaa 300
tcgaggtcct atacagatga aaattccaat ttctgcattt agtacttcgt ctgctgcaga 360
acagaacagc aataccaccc caagaattga aaaccagaca aacaaaacaa tagatgcttc 420
tgtcagtaag aaagcagctg atagcacatc acagtgtgga aaagccactg gcagtgattc 480
aagtggtgtc attgatctca caatggatga tgaagagagt ggagcttcac aagaccccaa 540
aaaactaaat cacactcctg tatcaaccat gagttcttct cagcctgtgt cacgaccatt 600
gcaacccata caaccagcac cgnctcttca accatctggg gtgccaacaa gtggaccatc 660
ntcagaccac catacactta ctacctacag cttcaactac ccgngaatgt aacacatcgt 720
ccagtaactc angtgaccca caagaatncc ctgtaccaag agctccttnn aaaccaccan 780
n 781

<210> 3640
<211> 924
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(924)
<223> n = A,T,C or G

<400> 3640
ctaacnaatt antgngnang ctcgtncttn ccgaacnana nnggcggggg cgaattcggc 60
acgagattta gtcactagct ataatacatt tagtgaacaa atgtagtctt gcactaaaat 120
tagagaatac ctatcctttt caagaataca taaaataatg accatatata taccacagag 180
taagctgcaa ccaattctag ataacttaaa tacagaccat gtttggaaat ttaagaaaaa 240

aaaacacatt tataacttgt ggatcaaaaa agtcatagaa cttagacaat acttggaact 300
gaatgtaaat acaaatgcta ttaaaatttg tagtatgcag ttaaacagga cttgtatacg 360
catttatata tctaaatgca tgtattagta aagaaaaaca aatagaaaat taagtttcca 420
actgaaaaag ttagagaaca acagatccat cagaggaagt agacagaagt tataaagagt 480
tataaaggta accaggcatg gtggtgcaca ccctatagcc ctagctactc ngnangnnnn 540
gnnggtnncn aggnttgctt gnncncnnga atccnacngt ccnnncngnc cnattgatcg 600
gcnnctgcnc aatngnnctn cttctancct caccccctngg tcnaccatan ggnganncan 660
nncatactcn tcngcacanc ctatttcctc nananggtng gntcctccnn nnnatcttnc 720
ncnncntctc anctancttn ncatnttnnc tanntcnant cctccatatt ncnncntcnc 780
ccnactactc gntnacgnct cnnctttctn caanannngn gancctntna nnngncaaca 840
tncntcngtn ccncnncntn nnctnnntnn nccnnncttct nnctctctnt ttcnnngcan 900
annccanntn ngnctcntcn ntct 924

<210> 3641
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(868)
<223> n = A,T,C or G

<400> 3641
ctaaaanaag gtngggggaa ttcggcacga ggtcaggctc tgctggacac tgcatgtcca 60
aacgtcattt tacccatgtg ccagcgacaa ggtagattcg cttgtnccaa ttttgcacat 120
aaggaaacag ccttagagag gttaggttgc ttgtgcaagc ccagggtagg tggcacccag 180
tctgccagtc tgcaacgcac tggtatcttn cagccagtag accttgctcc ctgggtgccc 240
agttctggat ctcaggaaan gtggattaag gctcctagtg gcgggacctg ggtggggatt 300
tgctgccctc tggtggcaga agggacatca ccctgggtgt gagacttgtg ggcatctgtg 360
aggcggtctt ttcatccnan ggaagccgga cctcaaatct gacctcagcc ccaggaaggt 420
gccancanga nggtgccacc tangagggtg ccaccagggt tccgccnggg tctgctgggg 480
ccctgctcca tcttgnntga nncacataan cnctcaagct gtcacnagac ccagggnttn 540
actgtctggg ntttgannec tgtgnnngcc ccctgagccn atttgncttt ntctcctctt 600
tggggcccct cannttccc nttttcantt tannanttct ncnnantnna ttaannctcc 660
cnggggccaa actntatncn taggaaacnt ncactncctn annaatttaa atttatnntc 720
tacacttcaa ctctnccatc tnnnaactgc ctnnacncna atntatttcn tnctnnnnct 780
ccnctntcta natcatcnnn tctatcntct tatatnntca ctnnnctnat nanaaaaact 840
annengtgcg tctttcntta gaacncct 868

<210> 3642
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3642
tnnacaattn cncntgctac tcgttctttc cgcaatannn nntgctnttc gaattcggca 60
cgaggccagt ccctggacag ctncgacgcc atgaatatnt tgcccangaa gagctgncac 120
gtncggaaca nggacaatgt ngnccgcntg cggngtgacg aggcccaggc ccggnaggag 180
gagaaggagc gtgagcggag ggtgctgntg gctcancaag aggcccgtnc anaattccta 240
cngaagaaag ccanacatca gaactcactg cctgagcttg aagcagcaga ggcgggagcc 300

ccaggttntg gccctgtgga cctgtttcgg gagctgntgg aggaagggaa aggagtgatc 360
ataggcaata aagagtncga ggaagaaaag cgacaggatn aaaganaggc nngagaaagc 420
tctgggcatn ctgacatacc tgggccanag tgcatcngag gcacagactn aacccccttg 480
gtaccagctt cccccagggc gaggggggccc cccggccngt ccagccccag atganangat 540
caagancctc tggaccctct gcgggagatg cataagcatc tggngaagaa gagacagnac 600
ggcggtgatn aangcagtnn cagctnaaag gaaaaggacg ggtctnagaa gcattaccca 660
aggagccttc atacnttgac cagcttngaa cttgaaccgt ntgctgaggg aaatcagctg 720
tatangtctc nggcataagc ccctgctggc cccnggttcc aaagcccngg cacttacang 780
gagggnt 787

<210> 3643
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3643
tnnacaattn cncntgctac tcgttctttc cgcaatannn nntgctnttc gaattcggca 60
cgaggccagt ccctggacag ctncgacgcc atgaatatnt tgcccangaa gagctgncac 120
gtncggaaca nggacaatgt ngnccgcntg cggngtgacg aggcccaggc ccggnaggag 180
gagaaggagc gtgagcggag ggtgctgntg gctcancaag aggcccgtnc anaattccta 240
cngaagaaag ccanacatca gaactcactg cctgagcttg aagcagcaga ggcgggagcc 300
ccaggttntg gccctgtgga cctgtttcgg gagctgntgg aggaagggaa aggagtgatc 360
ataggcaata aagagtncga ggaagaaaag cgacaggatn aaaganaggc nngagaaagc 420
tctgggcatn ctgacatacc tgggccanag tgcatcngag gcacagactn aacccccttg 480
gtaccagctt cccccagggc gaggggggccc cccggccngt ccagccccag atganangat 540
caagancctc tggaccctct gcgggagatg cataagcatc tggngaagaa gagacagnac 600
ggcggtgatn aangcagtnn cagctnaaag gaaaaggacg ggtctnagaa gcattaccca 660
aggagccttc atacnttgac cagcttngaa cttgaaccgt ntgctgaggg aaatcagctg 720
tatangtctc nggcataagc ccctgctggc cccnggttcc aaagcccngg cacttacang 780
gagggnt 787

<210> 3644
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3644
tnanctatng ntgtgtnggc tcgnnctttc cnnannaaaa gggctgtggc gaattcggca 60
cgaggagtgg atatgttcgt ggagacactg tggaaagtct ggaccgagct cttggatgtt 120
cttggacttg acgtctccaa cctgtcccag tatttcagcc cagcctcggt gtccagcagc 180
ccggcccgcg cgctcctgct ggtcggcgtc gtcctcctgg cctactggtt cttgtccctg 240
accctgggct tcactttcag cgtcctgcac gtggtgttcg gccgcttctt ctggatcgtg 300
cgggtcgtcc tgttttccat gtcctgcgtg tacatcctgc acaagtacga gggcgagccg 360
gagaacgcgg tgctgccgct gtgcttcgtg gtggccgtct acttcatgac cgggcccatg 420
ggcttctact ggcgaagcag tcccagcggc cccagcaacc ccagcaaccc cagcgtggag 480
gagaagctgg agcacctgga gaagcaggtc agactgctca acatccgtct caaccgggtg 540

ctcgagagcc tggaccgctc caaggacaaa gtgaaggtca accggccggg cgggtccaca 600
gttaccagca cgcttgtctt agaaaacgaa aacngaggaa aaaaacccca aaaccccaaa 660
caatcttaan taaacacgac tgagcaaana aaagttggcc ctgtgtaagg gctattttca 720
cccacccggn aagtttttag gacncatttc cccagaagaa ccggaaaaga tcatttgacc 780
ctnggaacn 789

<210> 3645
<211> 1098
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1098)
<223> n = A,T,C or G

<400> 3645
ttacttttcc tncatccagg nctaantagc nctaacnngn ttnanntngg gnnttcgnta 60
cnantcanct ttcnnagtna ccataagagc aaggggaact cgtacnacgn nnacgtngcg 120
ctgcancang nggacactgg aaactcttac ctttgcnggt acttnaanat taaangcctt 180
actgangagt atctcacccc tntacaactc ttctttgaan ganaacntaa tcatcntana 240
acacnctncc ttaactcnna agtcgnatgc anatcaacat nntnatccna aacaccnngg 300
gcancntttc tngctccttt atcanccncc nnaatcattt aacntcacna tcnacattcg 360
ncnatcatnn cagcnagaca nantgnanac ctacatctnt anntanntgc antngnncan 420
tcnncttgnn tcccctancn cacctntcca naagatatcn ttngnngcnt tntnncnncc 480
ccactatact nacatccncc ntnctcagca antttantnt cnaccctccc nctnanganc 540
nnncntancn anccttntcc caacnantnt aacaancntn accannccan gntctntnnc 600
tctntccctc acantacana aatntctcaa nanctccccn acncnanctc anctnnntng 660
tacaatccac tcaatctcng ngcnncccac cnantcttta nctgggnaac ctttnctcac 720
atactancgc aanacaatnn tcgcgntnnt tctcnnanac acatctctcc ncanctnncn 780
tnatacnact atcatcntcn atnnncactt anngaccaaa nntacactng anacnactac 840
tcgccanttt cantanctnn tantatcgct ngtccactng catctctanc atnnntnnac 900
aaaancncnt ccncncctan aactntcact ntcatctanc tctananact ntctcnactn 960
acccntctta taccacaann ncccnanctn ntgcnctcct catantntnt ntatncnttc 1020
nntactactn natntananc tactactcca cctcnnacat ngcttntcat atncatatcc 1080
tcatccttct cnnctncn 1098

<210> 3646
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3646
ntaannngtg ngnggtcgnn ctanccnaac nanataggct ggggcgatga tgtaaagtct 60
gaaatataca gctttggaat cgtcctctgg gaaatcgcca ctggagatat cccgtttcaa 120
ggctgtaatt ctgagaagat ccgcaagctg gtggctgtga agcggcagca ggagccactg 180
ggtgaagact gcccttcaga gctgcgggag atcattgatg agtgccgggc ccatgatccc 240
tctgtgcggc cctctgtgga tgaaatctta aagaaactct ccacctttc taagtagtgt 300
atcaaaatct aaaccaagga gtctctggac aagaagctgg gagaggcaca aactggacat 360
ctctctctct catatccttc ggcattgggt tatctatggg agcaaggagt gggcacgctt 420
ctctgttaca aatagaaaac gattccagtc atacaggaca catccactcc aaangatatt 480

tccaaaaaca tacctctgac agtnactttg atagatggtt tggcnaatgt atcttctggg 540
tatccacacc tcttggccat gaaatttgca gctcctccct tccataaatg aaagtctctt 600
tcccccacca tnttgaaatc tnggctggca ctgcgacttn gantcgnttc aatacnaatn 660
gtnggangaa ngtgactgtt tnncntttcc cancctnggt tttcaagagg ccttnttaaa 720
tgccnngttg gaaccttacc ccncccctgnc cntngtnnac tgaccatggc tggaaaantg 780
acc 783

<210> 3647
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(823)
<223> n = A,T,C or G

<400> 3647
ctaatnanng tgggacctcg nnatnnccna aananaatag gctggggcga attcggcacg 60
agagtgtgat ctgcagggag agaaccaatt acagtatgct tggagagggt gacatttatt 120
ctgctgaacc tcttctctgc ttcacataac gttggccact tcacctttcc tgagatgtct 180
ctgaggatgg gcatatttta aagacttgag cttacatcat cgcatcttga aagaaccgag 240
tataattgag ttgctgatac aagtgggtac ttgcaccagg tccgggtcac ccacatctct 300
atggaaacac atgtttgctt taaagcccag caatcagaag cagatcctta taggagccag 360
cattgggtca cttttagaaa aaggcattta tttatattct caagccagca nagacctatg 420
aaatgaaata attttcaaat tcantagaaa aaccatgccg tacgtgaatg ctaataaaag 480
cctgccgtgc gtcctnnctc ccctgtgctn gcactgcctc agatccgcct gcatttatnt 540
ttanctgtcc tttgctcttn tgtgcccatt tgcattctgc ngctgtgacn aagtnggttt 600
ggccctttta tgcnnaaatn ggttaatcnt tcatttnatn anncattttg cccancnacc 660
taaaaantgg ggaaaaatnt caaaagcntg gggaactggc cnntcaaanc ngnnnnttnc 720
tggcggttcc tngctnttng ccctcngttc ccttgcaagc cnttntccca nccancentn 780
cccccaangc cnncttngaa cnctttnncnn gccnttanca anc 823

<210> 3648
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3648
nnctaacngn tnnttaaagg agntcgannt ngcctaacac aaataggctn gggggaattc 60
ggcacgagtg agtacttatg aaaaattgtg agaaattcat tgtgtgggat tttcaccatt 120
actacatgta tttggaaata aaaattgtat gactatgtat atgaaacttg ttcatgttct 180
aaaaaatacc ctccatttat aatatgtttt taaaatttgc cactgagaag tacaaatttc 240
cttcttattt catcttagtt atcaacccag agtcactgga ggcaatgcag tgtagtggtt 300
aagcgtgcag attctgaagt tagacaagat ttgggttgga atcctgactc tgccacttac 360
tagctgggta ttcttggaaa ggtcagtttc cccatccgta aaatggggat aggaatggta 420
ccttcctcat atgattgntc tttttttaa gatttaatga ataccttgat gtattcgtca 480
cagtacttgg gcatagtaag tgttcgataa atacgtantc ccctgtgccc ataactgtaa 540
tattttacta gcactaaatt tgtctactaa ttcttttggt tagagaatct cccttgttaa 600
atgactattt tacagaatgt tttgaactcc aaatcaagcc taccacgatt aatnatatta 660
agaattttat tttaacttta taagggcttc taacagtang ttaacccaat tttaaaangt 720

gaaattcaan gtgttcccta ttaaaacccc tattcctgaa tgtanataat ccattattnn 780
nct 783

<210> 3649
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 3649
ctaatnnnng gtantctgng ttctttccgn annanaacnn nctnnggcga attcggcacg 60
aggcttcctg ctctttgtat tttggctaaa ggcggtgaag tgagaggcgg agggggattt 120
aaaaccagca gaaaaaggct tcttgttggg ctgatggtgt ttgtgcgaga agctgangtg 180
ggcagggagg agagcctang agagcggtag ggctcatggg caggccgttg gtgtacgcct 240
tggccctgcc tgtccccagt cccaccactg tggactccag gccatcctca gtccaggtgg 300
tcactgtggc ctgggccaca tgctggcgat gacggggatg gccttccaca tgcctgttct 360
ctggaagagg ggctcgcgtt gtgcccaact ggggacgtcc tgcccccaac cccccaaaac 420
gctgctttct tctgccctna agaggcccct cagaagagag gaggctngnn tgaggggcnt 480
tgagataaac cccgaaaggc cggnttcctg gcttcgtgtt ttaaaactca gtgctgcttg 540
cnaagtgctt tgnctattgc attnataatg accaacancg nttggttgac cacnttgatg 600
gnccganggg gtgccangca cttgttccca agggccncac ttcgtgttgg ttntttggtc 660
cgnttaattc ctncttgaca aacctattta caccggtttc ntcnttcnnc tntcnagcna 720
ancccaatt ntgcaacccc ggnggaaaac tnaangnccn caccggattc accaaaaatg 780
ccnacnaacc ttgntatttc caancccntn ancctctcct gnncccc 827

<210> 3650
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3650
ntacnnatan tntcgnngnn actcgnnctn tccnaacnca ncnnggctgn ggcgaattcg 60
gcacgaggtg gcccaagggg cccacaataa ataacacagt cactcctatt ggtacagcaa 120
tgccaagatt tagaagttat ttcataggag ctgggacaaa ggtcaaacct ctctttgggc 180
aagaccgtat tctttattgc atagctttga aaagagattt tgtattaccc aaacatttat 240
tttaaaaagg caccccccata tatccatcac tcgaactgta catttctaaa tgtacattga 300
cctttggtat attagtctag caatccagat tttgcctctt gttaagcgta tcagggtcct 360
ggcaggaagt agacgacaca ctgaaggata actgtcaaaa gtttaatgaa gagactattt 420
acaaaggtgt gggcaaagtt aaggggaaca acaagtaaga gatggtgtag catcttagac 480
ctagcaacag cagaaaataa ttgccactcc taactctgaa gagataagga gagggaatac 540
ttagcagaac acagcaagat tgattagtaa agcacagagc tcctgacgag gagatgtgac 600
cttcaggaga ggaatactac ccccaagcta tggcccagca gggaaagagc ataggtaata 660
cattctctga ctcccacttt ctgatttcct ctagtagctc cctttggcca aattcaactg 720
attattagag agtaggaatt ccagttgctg cagtccatag aggttagtct cccnat 776

<210> 3651
<211> 776

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3651
gtactaatat ntnaagntnc tcgtnctttc cnnacncanc nnggcggngg cgaattcggc 60
acgagatgtt ttgggaaata gcttgtgaga ggtaagaagg attgcaaagt ttttccaaaa 120
tattttatga agttagtgaa gtcagttgaa atgtgtattt aaacatttga agggatacag 180
ttaacatttt tttaatgaga ggaaaccatt gtctgtagtt cagaaataag atggagtgtt 240
ttacttattt aaggggtaat ttaaaaagta aacaaaagca ttggcctaca agagaaaggt 300
gatgttggat tataagtgct ttttctaatc gttaatatta atcaacaggt gagtatattt 360
tccgtttcca agcagttatt aatttacatt ttctcaaatt ataagtagct tcctgcttct 420
ccaaaagtga ggcttaagag gatggctatt tcatcataaa ttagaaaaac gactacaaat 480
atgaaatggt taatttttg gtactaagat aatgagacca tccagaattt tatgatcaaa 540
acatggcttt tacccaggga gtatctgtag ttgagccact ggctctataa cattgttagt 600
tctttgtatt ttcccaatgg aggttttacc tcatggccat aaaaataaaa gagggttgaa 660
tgtgaaaata actgcatttt gaacatctca nacccttcac tcataaaaat tacttaatgt 720
tcctcttcct tgaattacat atttttccat tgtaataaaa ttcctgtttt gaaann 776

<210> 3652
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(846)
<223> n = A,T,C or G

<400> 3652
naactaatna ccangaccnc nanntngcct aaanaaaagg ctngggggat tcggcacgag 60
ggggcttatt tcatccctac agtctcgacc atagaagaca gctacaccca agggggccat 120
tttagaggcc caccctcagg ggcacattct ctttctcagg gatgttcctt gctgagaaaa 180
agaattcggc gatatttctc ccatttgctt ttgaaagaag agaaatatgg ctctgttccg 240
cctggctcac cggcggtcag agtttaaggt tatctctctt attccctgaa cattgctgtt 300
atcctgttct tttttcaagg tgcctagatt tcatattgtt taaacacaca tgctctacaa 360
tttctgcact taacacaatt atcacagggt cctgaggcga catacgtcct cctcggctta 420
cgagatgaca ggattaanag attaaaacag gcatangaaa tcacaagggt attgattggg 480
gaagtgataa gtgtccatga aatcttcaca atttatgntt agagattgca ntaaagacag 540
gcntaagaaa ttataaaagt attaaatttg gggaactaat aaaatgtccn tgaaatctta 600
aaaaanacta ntcacactcc ncccncaact nanncccCac nctccnntnc cntcncnccn 660
accctnnnac tcnctcctct ccncntnnac cccttccccc nnntcntccc tncttctcnt 720
cnnctncnct ctcctncnct catnccccctc actccttctn nnccttttcat ntcntcancn 780
anntcnncct cnntnttcnt ncnctctacc ntnnccatnn cnatnnctcn ntntnccttc 840
tctcct 846

<210> 3653
<211> 782
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 3653
acctattant ntgatgtcga nntnncctaa ananataggc tggggcgaat tcggcacgag 60
gcgggaccct gcctctacta aaaaattaaa aatagctatg catggtagca catgcctata 120
gtcctagcta ctgaggaggc tgaggtggga ggatcacttg agctcaagaa ttcaaggctg 180
cagtgagcta tgatggcact actgcacttt agcctgggtg acagagtgag accctatctc 240
acaataaagt aaaataagaa ttaacacact cataataact atttagttaa taggaaactc 300
tgtttaagcg atattgctta tatttctctc tcatgctttt gtaggtctgg actcatcctc 360
tcaattatcc acagagtata ttgttagtgt tttgtttaag ctacctttta cactcaatta 420
aaactattta ctggaagtag gctaaggtna tggggtgaga atagagatgg tattatatca 480
tgaaatctac ggaagagttt gtagtcntag ttcccctgcc cccacagagc ttattactct 540
tgaagaagct ttgacnaatt ctacatgact tattcccccc actttaacaa gacctgctat 600
actaaaacta taccncagtt tttccaagag aatantgctt ctaaattata ttanctctgg 660
ntcccatata nnctnnanca ttnctccctt tctcttattc naaagttagn ttntnattan 720
gactcttntg ancatatnnn nttannntnc gnncncccgn atantcnggt tcccctntggg 780
ct 782

<210> 3654
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 3654
gtacctatcg tntcgtgcat gtcgnantng cctaactana attggttngg gcggaagagc 60
tgaagagtag gaggtggcag gactaactaa aagtgggaca gtcacttgtt atagtgaagg 120
tagaatggac agaattgggc aactaattaa gagggagaac cctctaggag aacaggagaa 180
cgcatccaaa cctggaaaac caggaagaga agatccttgg tgagaagcag tcaatgagtt 240
tgctttggga tatgttgagt tcccaaactc atcatgaggt gaggcttcca ggtagcaaat 300
gaatcacttg agaccaggag ttgaggagca gcctggacaa catagcaaga ccccatctct 360
acaaaaaaaa aagattttaa attagccagg tgtggtggta tgtgcctgta gcccaagcta 420
cttaggaggc tgaggcagga agatcacttg aacccagaaa tttgaggctg caggtgagct 480
atgatcacac catagcactc cagcctggat aacagggtaa aaccctgtct cttaaaacan 540
acaaacaaac aaaaaaccac caaaatcctt atgtatctgg tactatagtt gtctttctca 600
ttttacattt gacactgaga gacagagagg ttgangagtt tgggcangac acacagctna 660
tacatggtag agtcaagcct tgagttcang tctnctggcc ccttatttcc accccgaact 720
ttcaccatta tcatattgtc nggnangctt ggagactctt gaatcccttt aactcacccc 780
t 781

<210> 3655
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1017)
<223> n = A,T,C or G

<400> 3655
gaactaatnc ctcncnnngt ctaantngcc naacnngntn gngttngggg nattgngtaa 60
tanantggca gntaccaaag atggntgtct nnagttncta aatgacatgt tgatcggngt 120
catgatatct gcaaatantc ttgtctttct tnacctnaga acaaatgtna agcattgatn 180
ggagcanaca caacagttac gaantntnct gcntggcaac tgactnaaag cnaatntact 240
antcctctta aacttccaaa anagtatnca ntactacngg atggntctct atncacangc 300
ncttngtctg tnacntcnan natntcacnt atctaanaan ananntcnna atgatnaatc 360
tcaacnaccn ccaanannaa gttnncgnac cgtgnnagtn gtncancnta anttgancgn 420
cacttgcctt tnctntcccc aggcanacga atattnctcc ctttttaagc ccntccangg 480
cncaacggct cctncnntcc ncanatcgca aagnttaann annncntcct nccctcttca 540
attantcact accttcaaac tcnctcancn cattnccgnc cctccntctc ngcntcacct 600
cgtcacccnn tcttcctnca agtncnccct nntaanccnn acnnttccc nnnaacccct 660
ccncgnttcc tnnactcact gnnctccatt ntctcccnct ncccctncaa annnatnctc 720
cctcnntant tcccanctct nactccagcc gctancacac ntctcgctca catctaatcc 780
nacgncattc actnctctcc ganatnancn atcgcgtnta tangngaacc taannnctat 840
ctcacnctnn antctcncta atnccancnn taanctnttt gctncagcac anacacntct 900
ctctacactc ncnatacnac ttntanccat ttncntanta ctccatctac anactctctc 960
atnncaccac ncatctctna tacaacncct ctntctctct ctngctanca cancact 1017

<210> 3656
<211> 908
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(908)
<223> n = A,T,C or G

<400> 3656
ntaangnntg tactcgngnt anctngccta aatananann gttnggggng ctgggtgtng 60
gtggattaca cgcgtgagcc attgcaccca gccttaaggg accaggactt tatctttnta 120
ccctgctgta ccatctttag ctttttatct ttttattctc atgcttttgt tncttcatga 180
tgttaggatg gctgccataa ctccagggna tacaccaatc ctctaaacaa gaaacaaggg 240
gntgagacaa aacactctga gaaggttntc ngggaacaaa agacctccaa gctgactctg 300
cttnataact cattggctna aactgagcta tatgcccata cttanagcaa tcactgacaa 360
aggggaatag caccaaaaca cctctggctt atcntagatc aacctcgatt nattnntctg 420
ggtttngggt tggggccttc ttnacctgng aagcaaagaa cctcttgcca gcttgtccac 480
ggctactcan gttcnntnta cccaacaann ggctatnggg ttagtgacta actttnccaca 540
gcncngcana tacatttcgt atagtaacnt ntttccaaga ncttcntaan ttcacccntn 600
gaactatccn gcancanatn annnctnttn ctanttnnat cannntggtn tcaaactcan 660
anggnttttc annccaannt nnntntntct nacatnnccc nnccctncaa ntccccnncc 720
gtcntcactc ntcntccacc cctnnacccc ttntcaanac ctctacntnt tcangctncn 780
cttnccnnnt nntccctcat nanctcactc ntcactntnc tctccnnccc nncantaccn 840
tctctnnncn gtcctcctct ctnnntccct ctctctcanc atatcttcct tncncatctg 900
tnnccncc 908

<210> 3657
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 3657
aatcncngta cngngcgnan tngcctaaan anaaggttgg ggggccctct gcttcctggc 60
tgaccttggt gtggccctct gatggcacta tgtgtcctct tctctgagct ttctgaggat 120
gacaagccgt cttttcaatg ggactccctt ccagacctgt tggtctcacc atactggaat 180
catcataaag cctgtattgt aaaacatcat tggtgnctaa agtttgcaca atgctatggc 240
ccccacatta agggagtctg ggtgagatca ctncattgcc cctacttctc tgaccanaaa 300
acacaagagt tcatgggaga caataataac aacaacaaaa acaatacaag aacacantng 360
tacctcntta ttggcacant aacttttcaa angctggcat gaatnaaaag nncccaagtc 420
ncaagacnag gtgnnctgga nccactgctc agnactttcc gacagccnac gaaagcacat 480
cnaatgaaca angccttgca ttantgggac gnttnnngat atacanccca nggaatcatg 540
cncctgttag tccangggga cnagccctnt nccatgcncc cnctantgct caaaccnntc 600
atnggcanct tgctncattt cgtacnnnng tnggcccctt naatgaaata tcgaancaat 660
ttnttaaacc cncccnggcc ttattgnnac tttctnaaan ncccatcncc cttgncttca 720
tannncntnn ctcgcccttg nntgcaattc tcccctngcn ggacntctaa tgcnntcaaa 780
actcnancgc nnnnggtcnc aacacttttt anccntanna caggggntta gncccaanat 840
ttccnacc 848

<210> 3658
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3658
caatgcncna accaattant aagntactcg nnctttccgn acncancnag tgcggnggcg 60
aattcggcac gaggctgagt attttttttca agtgtatcat ttgcctgtta acttaaaatt 120
ctattttccc cctaattcta tgtcccagtt ttggttagtg tgctctggga tttttgaccc 180
attccatagt aatagttatt actactacca ctacagtaaa ttcttacaag aactttccat 240
gttttttggg aggaggagga ggagtagtta cattcaggat catatacata attgtttagc 300
ttcagttctg tatttatata tgtcacttgt aactgactgg gatacgttct gagaaataca 360
ttctcaggta atttttgtca ttgtgccaat atcatagagt gtacttataa aaacccaggc 420
tatatattat aacctattct gggcttcaaa cctgtacagc atgttacttt actgaatact 480
gttggcagtt gtaacacaat gataagtatt tgtgtatcta aacataccaa aatatagaaa 540
aggtacagta aaaataagtt taaaaaaaag gtacaccaaa ataatcttat gggaccactg 600
tgtatgtggt ttgatgtcat tatgcagtgc atgactgtac tataaatgct tatggccagc 660
ccttttttttt tttgaggcag agtcttgatg tctcgcccat gctgggagtn cnnnnnnnnn 720
nnnnnncnnn nnnnnnnnnn ncnntnnnnn nnnnnnncnn ncncnnnnnn nnncc 775

<210> 3659
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3659
aantnctnna acttatnntn tntngacctc ganctnncct aannagnnng gntngggcga 60
attcggcacg agataaaggc ctagtttttg tatcccaata gatttttacc aagcttcccc 120
tgaagaaagt ttagaatgag catgatggga aaagggagaa attgtatgct gcagatagag 180

ggaggaaagg ccaactaggt ccaacaagta aaaagaggac tagtctcaaa ctattaaata 240
tatgatttac ctagcaaaag ctttaagtca cagctgaatt acactgggga aacaattaca 300
gactttacaa tggaaagaag catcttcaat gttggctgca atcactgaca gcaggaatac 360
tcacttttga aaaaaaaaat tggctattgt tttctgtttt ccacatctta gtttaatatt 420
atgttcctca aacactatga agttgagaac tgaattgatt acctgggaaa ttctggtgaa 480
actgaggtgt ttgtttcatt aattatccat gtcatttatc ttcttaactt aatcaaccta 540
aatttagcct gaatattatt tgttagggac tgaagacttc tagagagcag agagcacctt 600
tttttaatta aacaaattcc tttgataata ttttaatgtg actcaagaat ccagcactat 660
ctatatatgg acccctctgc atccatgaaa agaagtcctc atccaattct gtgaatatga 720
gactaaaata caattccaat tatgaggnat tttnttttaa gtcctaatgc aggaagaa 778

<210> 3660
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 3660
ctaacttatn tntctaganc tcgannntngc ctaaananct aggncngggc gaattcggca 60
cgagcactac atgaagtccg gggtttggtt aaaatatctg tcttatttat gaaaggctga 120
aaagagaaaa gagctattca ctacccgaga ctataagttt tagctgataa aaacacagcc 180
tcatcaatag ctattgaatg aagccacttg ctgagtcagt aactgaatgt ctatgtatga 240
tatttccagt atcatgatta aaatggagcc ccgaaatgtc attataaggc ctagttgtgg 300
actgggggcc cagatggcca agtgggagca actctgaaac cattaaatag gaggagagag 360
agaaattaaa aacctttttct attcaaaaga aacctataac ccaaattcta aaatttatag 420
agacatataa tattaatata acaaaatcag ccaccaaaac attcatttct ctggatgaaa 480
ttaattttat ggagcagttc aacaaagact ttattttaaa aaataaatta tgtatttatt 540
tttgactagt aatagatgca tgtagtacaa aattcaaagg tacaaaaagg gtaaacagtg 600
aaaagtaagt ctatctccac ctctttcacc tagccaccca gtttccctnc ccaaaggcaa 660
ccactgttac ccatttcttg ctatcccttc ctaaggataa attggttgca ttattccaaa 720
cattatntan tatatacacc acaccacacn actcaccaca tatggtacca ttttttttatt 780
attcaaatgg nn 792

<210> 3661
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3661
ctaatnctgn acnaatnggn tnngctactc gtnctttccg naanancnag gcggtgcgaa 60
ttcggcacga ggtgggctct cccttaaaga cacatggcca cagacacctc cttcgcatat 120
gtaatatgcc ttcccctgcg gccttccgtg gtcacagcaa cagggactgc tcacccccctc 180
cagctggggc ttttctaaca agcacagtca gaaatgcgca ggcctggggt tggggatgaa 240
cagaagttga ttagtgggca cagaaataca gttagataga aggaatagtt ccagcattcg 300
atattacagt agggagactg catttaacaa taattgattg tatatttgaa aacagctaga 360
agaataagaa tattcccaac acaaagaaaa gataagcgag gtgaaggaaa tcccagttac 420
cctcattcag tccattacac attcgataca ggtatcaaaa tatcataggc acctcaaaga 480

catgtacaac tcttaattta acatttttga aagaaaaaaa aaccggccag agcattaaaa 540
caaataaaat aagaaacaca gaggccagtg ttaggtgaag aactccgctg cttcagaaag 600
agaatagcag cgctcgctta ccgtgggaac acggccagtt aacaaaatgg gttttggttt 660
tttgntttgt tttgttttac cattggtaat aagatagtta acataagtgg tcagaacttc 720
gcttgaattt gtataaagca tttgttaagc gtgtaaaagt ccaaattaaa agtcttgaa 779

<210> 3662
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3662
aatnctnaac ttattatctg acgtcnannt ngcctaaana gaatnggttn ggggaattcg 60
gcagctccct caaagaaagg agaactagga aaatgttttc gccatctccc aaagatgata 120
ggaaagttct gagcagggtt ctgggtatag ccccttgtga gaaattcaag gcccaatcaa 180
tgccatagat gagttatata ttccaaattt acactactta tgtaggtgta gtaacctcca 240
aatcaataaa ttaatataaa attggcccag gactggtgaa acctagagtc ctgtcagaag 300
caaatacaaa gcagcccttt aacaacagtt ttaaatttag ggccttcaag acccccagct 360
gaaaagaaag tctctactga aagtgagctc acaatttaac aggagagana nagaaagata 420
cactgtgaag gatantcaaa agacattgca nanaggagga ctggtactgt cccccacccc 480
cactaagagc ttaagatana acagcctgna tgagactatg aaatatnttt aannngatga 540
aagaaaaatg tcacctntcc ttctttccca gtcaagacan gnngnatccc ntttgnntaa 600
ncctanaaan tacctgtgtn agatactnnn nttgatcgtg agacgccnat agtcaaacct 660
cttggangna aaactanaca ttcttcnatn ctttnaantt ccccccccen tcnggcccct 720
gtcttcccan attcacctaa cttccccttg gttgcccccc acttaattcn acngcccntt 780
ntttttttcac tccaaacngg gncct 805

<210> 3663
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 3663
tnnctaacca atnantcnag gcanctcgnn ctntccnaaa taaanaggnt ntggcgaatt 60
cggcacgaga aatgctgaat attggtaaca agcaacaggg gaaacaaggc agtctgagca 120
cacagaactc aagtcctcct aatgggatcc cagaatgccc atggaggaag cagcatgtgc 180
actgtgctga gtgctgagca ggatttcaag agagcaaagg cagagatgct ggacagggca 240
gcacaggagg acgagtgtgc atggtcactc tgagcagggc tggttcctgg gctggttgga 300
gcacagcatg gggaactgaa aggcagacac tggccaagaa agtccttgtg cagggcttca 360
gaagtgagcc tcacaagcca tcctaggcca cactgccatc aagccccaga cctctacatg 420
cccatttggt ttctttccag ctcatatagc ttcctaagta ttgtggctaa cagttccctg 480
acttgaattc ctagtttctg ttaacagttt tctaactttc aggaaaaaca agccaatttc 540
taaggaaagt ggctgtgctt cagtcaggag tagtccgagg tagacatcca ggacagtatg 600
acgcaaaggg tttggagcgc aacaacccct tgcgttatat agccatttaa tgtaacctgt 660
ttgtgtgagt tcatacctgg ctttgagcca ctattgtctg tgagtaatat aactgcactg 720
ctgactctgt aggagagaga ataaagccat gtccaacttg cctacagtcc tcn 773

<210> 3664
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 3664
taatgctngg ctctcgttct ttntgcagga tccctcgatt cgaattcggc acgagtatag 60
atccagattc tattcaaagt gccttattag catcaggtct tggatcaaaa cgacctagtt 120
nttcatctac accagttntc ttcacctgct cctaacangt acaccagcta ncagtcncac 180
cnacngtaac agtggccttn tnacnggtaa ngatgctgtg tgaaagggct cagcaagatg 240
acgaaagacc tgctngataa gctcnagnaa ttngcngaan acctgccncc tnataccntn 300
natganctta nngannaacn nggnggnnct nctaacgtgg ntgagatgac tggccgctgg 360
gacggtgttg nnanctgcga tgatggacgc atgtancctn atncangntn tgnactnnan 420
gngcctgtgg aannтcncga ngttacncgt gctcagggat attatngatg gcgnttacnn 480
tantgctggn atccatcatg ctggngaanc nggtatnaca ttacatctgn tnngagagct 540
tgccatnata ggcgangntt tcatatgact ttgggaantg nccttgatcc gctacntaga 600
ncngctntaa cagttgggga ccctnnntga natcancnca ggttcctgtg gnggagattn 660
cctacntgaa natgggcnct gncggagcta acggaanatc ngngtancnt tgctgctang 720
ccacttnana ggattgtggg cactttcaca tggngnntna acgcttggca aacttcn 777

<210> 3665
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 3665
gtacttattt ntaatgntgg tcganttggc ctaaananaa taggttnggg ggaattcggc 60
acgagggttg ccagcatata actgctttgg agcaaatctc ttctgtttag agagatagaa 120
gttatgacat atgtaataca catctgtgta cacagaaacc ggcacctgcc agacagagct 180
ggttctaaga tttaatacag tgctttttt cctctttgaa atattttact ttaataccag 240
tgccttttct tgttgaactt cttggaaaag ccaccaattc tagatcttga tttgaattaa 300
tacacacaat atctgagaca cttacacttt tcaaaagatt tgtgtatgca ttgcctaatt 360
agagtagggg gagaagggca actattatta tccctatttt acaaaactga ggcttantga 420
ggttcagcca catgcctaga cttatatact agttagtggt gcagccaggg agaggactca 480
gatttcctgg aggcaaagtc tatctctgaa actccatgaa gacttttgca gccagttccc 540
accaatatgc ccccagacgt gagacaaaca aggacttttt ttttatatag agccatccat 600
naaaatccta agccccttt attaatgtat aaccaggaag aaacattttg tgccaaccgg 660
tttggacttt tntatggcnt gagaattcgg gnaaggaagt gttgaccccc aagccangga 720
gaaggaaaga antgganttt ncntttgtcc tttaagggtt ttntaangnn cattggtttt 780
taaatcncgn natcnnngcc caaaanttnn nttct 815

<210> 3666
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3666
ttcaaatccn agctcttgtt cttttgcgga tccctcgatt cggaaggcta caagtgacaa 60
ggaaaattct gttccgaata tggccacaga aacaaaggat gaacaaatat ctgggacagt 120
gtcttctcag aaacaaccag ccttgaaggc tacaagtgac aagaaagatt ctgtttcgaa 180
tatacccaca gaaataaagg atggacaaca atctggaaca gtgtcttctc agaaacaact 240
ggcctggaag gctacaagtg tcaagaaaga ttctgtttcg aatatagcca cagagataaa 300
ggatggacaa atacgtggga cagtgtcttc tcagagacaa ccagccttga aggctacagg 360
tgatgagaaa gattctgttt cgaatatagc cagagaaata aaggatggag aaaaatctgg 420
gacagtgtct cctcagaaac aatcggccca gaaggttata tttaaaaaga aagtttctct 480
tttgaatatt gccacaagaa taacgggcgg ttggaaatct ggaacagagt atcctgagaa 540
tctgcccacc ttgaaggcta caattgaaaa taaaaattct gttctgaata cagccaccaa 600
aatgaaagat gtacaaacat tcacaccagc agaacaagac ttagaaatgg catcagangg 660
agagcaaaag angcttgaag aatatgaaaa taccagccac aggtgaaaaa ccaaattcat 720
tctagggatg accttgatga cataattcag tcatttcaac agtcttcaga ngat 774

<210> 3667
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 3667
ttnctaatnc nagctcttgt tctttttgcg gatccctcga ttcgaattcg gcacgaggnt 60
gnanaaagna tcngctggcn anntctatca tgnatcagct aaggatttgc caacngaatn 120
ntnctcnatc cttcantcat gacacntcac atgtcaagng nagaaggtac ancgtgnaaa 180
tgctatancc ggcnnaatnt aggagttctt ctctggctcg gttgctaaag cagtgatctg 240
ngtnancccc agggccatca ctgtgcatgt ncccatgccc tnaacngnat tcgagcacat 300
actgattnac tanaaggagg ngnangncca gcagnaacan cnnacgatga cattggccnn 360
ganctaccnc ntgnncgatg ggaaaatggt gaannntncnn cgcatccnga atgcgcnagt 420
tnntgtaact cantaccaan tgctcagcag cactctcttc tctngctcgt ggagcttcag 480
cccatnantg gaatanaaca tcngctnaga ntncactngn cttttggatt gnattgtnca 540
atccttggtg atcacaatnn ctcagactgg aataggctgc cccccaaaac tgtctgtggc 600
accctgaaaa agctggggct aaacagncaa ggccgntcat ccccttgnct gaccncgnat 660
tgtctgctgc tgggttcgga cgaggactac tnngntgaan tnctccttgt tggcatgatg 720
acnctngtta aga 733

<210> 3668
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3668

ttctaatnct ggctctcgtt cttttgcgga tccctcgatt cgaatgcggc ncgaggtgaa 60
ccttccccag tcctatcaga gcanactttc tggggttgca tcccntcaga aaccnatttg 120
gggcccaatc tcaatgcaca tatcantgcg canagcncta aaatttcagg caacactttg 180
nttgagagan gccaaaattt tggncaggcc ctgggacatc taaagtcacc aatgtaacta 240
caccatacag attaaaccct cacatgatca tgtaagctat gcagttaccc aagctgcatc 300
atttanaaaa cctgtcagnt nttatggaaa ccatccctag tcaaggacac tttaaatatn 360
tagtctaaat accgttaang taggcccact agctgtgttc acattatccc ttggccacct 420
taccagggac tnnaataact tgggaaagtg aaaacaacaa gctnacccac atgttcacca 480
tnnaaancan ttangtcttg aaaaacatgg actcttttn ccgtgtggga ccagttccta 540
cttatgtgtt accagccaat tggactggaa cctatacagn tgggnnatnt agcccccgaa 600
attaatatag ctcccaacaa ccaatccttc attatacttt naactgnnaa ccaccanaca 660
caaatgancc atccaactga taccactttc ngtngaagct anggaatacn cctngaagtc 720
tgantgagag tttcagncct tgcngctnnc ctatcctatt accannggtt gnct 774

<210> 3669
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3669
ttnctaaatn cnagctactc gttcttttgc aggatccctc gattcgaatt cggcacgaga 60
tatgcacatt gtnccaatgg cagacttttg gctttgatat tgttctataa ttatgtaaga 120
tgttaccatt atgggaaact ggaggaaggg catatgggac ttctttgtac tgctttttct 180
attccctgtg agtttataat tattttataa taaaagttca aaaacactta ttggatggac 240
atcacagaac ataatagaag aaagaatcag tgaattatag gtctgtttaa tagaaatgac 300
tcaaactgac acacaaagca aaaagaatga agaaaacaga acacagtgtc tgagactttg 360
tggaataata ttatataaaa ttatctaaca gtcacatgat ttgaccctca gaaggagatg 420
aaagaatgag atagaaggaa tatttgaagg aataattgtt gaaaatgttt ccaaattgat 480
gataatgtca gctcacattc ccaagaatca cattgaaccc tgaccaagat aaaccaaaga 540
ggactacatc taggctcatc atagtcaaac tgcttaaaat caaaactaaa gagaaaaatc 600
ctaaaagcaa ttagagaaat cctatatagt ccatgttggg aaacagttac atcaatgtgt 660
gctgacttct catttgaaac catagatgcc attagacagt ggaacaatat ttttaaagtg 720
ttcaaaggaa aaaaattgct atnccagaat tctggatttg cccaaaaatc tcttcaaat 779

<210> 3670
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 3670
ttncnaaata cctngctctn ggttcttttt gcaggatccc ttcgattcga attcggcacg 60
aggcggatca acctggcgga ggacgtgctg gcctgggagc acgagcgctt cgncatccgc 120
cgactgcccg ccttcacgct gtcccacctg gagagccacc gtgacggcca gcgcagcagc 180
atcatggacg tgcggtcccg ggtggattct aagaccctga cccgtaacac gaggatcatt 240
gcagaggccc tgactcgagt catctacaac ctgacagaga aggggacacc cccagacatg 300
ccggtgttca cagagcagat gatccagcag gagcagctgg actcggtgat ggactggctc 360

accaaccagc cgcgggccgc gcagctggtg gacaaggaca gcaccttcct cagcacgctg 420
gagcaccacc tgagccgcta cctgaaggac gtgaagcagc accacgtcaa ggctgacaag 480
cgggacccag agtttgtctt ctatgaccag ctgaagcaag tgatgaatgc gtacagagtc 540
aagccggccg tctttgacct gctcctggct gttggcattg ctgcctacct cggcatggcc 600
tacgtggctt gtccagcact ttcaacctcc tctacaagac cgtccagagg ctgctcgtga 660
aaggccaaag acacaagtga ccacaagcca acccccaaca agcccggnag ccccccggcc 720
ggtttcaaca agtccccttg ggggcccgan gcaccgaatt gaaattggga caacttggcc 780
ccgnccgcgg ggcnggnccc ttgcaanggg acca 814

<210> 3671
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3671
ttccnaataa ccagctactt ggtgcttttt gcaggatcct ttgaatnccc tttncngcac 60
ccagagtcat tgagagtctg tnccaaaagc tacatgaagg ccatgggaaa aacccgggtg 120
ccatttttc tagtggggaa caaggcagat ctctctccag agagagaggt acaggcagtt 180
gaaggaaaga agctggcaga gtcctggggt gcgacattta tggagtcatc tgctcgagag 240
aatcagctga ctcaaggcat cttcaccaaa gtcatccagg agattgcccg tgtggagaat 300
tcctatgggc aagagcgtcg ctgccatctc atgtgagccc ttgggtgtgg ggtaactgcc 360
ttgcttctgc ccccggcact tgccatgttc cagtgggggg cagatcctca ggacttcacg 420
ggtatggttg ccagctgtgt tcctggcccc tggacacaca gtgtggcatc ctcatgtttg 480
cacactttcc ccaggctcca gtggcctgga tgtcaatgtt tacaaagggg caaggacctc 540
tcatggacac tggcctctac cctctgtttt tgtttgatga attctgttat aacctatggg 600
gtcaggatat gagtcctggg cattatttat ccaggaccca tcctcttggg tgggttttgg 660
gtgttggctg ggtaaagggg agccggggac ttctgaaata anctggcttc ctggggtgac 720
aatgnatata tgcaaataaa ttgagaaatc ttttaaaaaa aaaaaaaaaa aaaaa 775

<210> 3672
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3672
ttccnaatgc tggctctcgn nctttgcag gaccctcgat tcgggaaaat tccagtttat 60
acctgtggtn cctgtgtaat tatnggtagc actccctttc actcttacaa ngtctnggtt 120
tggatgatat atggtgaagt ttttgttgaa actaaattat gaagtctgat atatttggat 180
aaaaataaag aattgctttt cttctccttt tgctgatttt ttgacacatc attctaagca 240
aaatcatctc agcttcgtat atttcagcct gaagtacttc ttaccaaagt tgtttcatgt 300
aacatttgtt caatatgttc gtgacatgtc tctcagtaat gaaaagttat gcattttatt 360
gaatgaataa aaacctaacc tctgctattt ccatttctgg aagttgtaag agctcacatt 420
aaagacagta aaagtcaatt taagccaaga tcattttcag cccaccaatg tcatggctat 480
tggaaaggaa aacctaatgt gatcattgaa ctatcataac aagtggaaac tagaactttt 540
ttatagcatt ttcatgatat aggtcctgtt atagtaagat atttcattct atttatcaaa 600
atggtgtaaa taaaagaaac acaattattt tggtaatgct tatcttcagt ttaaacattt 660

attcttttca gaaatatgta aatacccttt gnaaatatat nccaaatgaa aaataaggga 720
tattttaccc attaattatt tctggaaaga tcttatgctg gtttaaatt 769

<210> 3673
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3673
ttncnaannn ccaggctact ngttcttttt gcaggatccc tcgattcgaa ttcggcacga 60
ggtcctggct actgaggagg ctgatgcagg agaatcattt gaacccagga ggtcaaggct 120
gcagtgagct atgattgcac cactgcaatc cagcctggac aacacagtga gaccctgcct 180
cacaaaaatt atattctgat tttctgagtc catgaacaca ttgtccaaat ggatttttct 240
agctcctcca agttacagat agttccacgc acacacagaa ctcaccactc tcaaatattt 300
tccccactag tattactatt aaatttttca aacatgcaaa agatgaaaga attgctcagt 360
gaacaccatg tacccaccac ctagattcta caattaacat tttaccctac tttctttatc 420
acatatatgt acctatccat ctatccattc ttccatgaat ccatcaattc atctaatttt 480
ttatatattt caagttaagt tgcagatatg tagcttatgt ttcaccttaa atgtttctgc 540
ctggctatta ttaactggag tgcaatatgt ttttggttct tctttatggt aaaatctatg 600
ttcagtgaaa tgcacaagac ttaggtatgc cattaatagg ttttggacga atagacaaac 660
cttgngtctg aaactggaan taaaaaaaat caaacactaa aaaaaaaaaa aaaaaaaact 720
tcgagcctnt anaactattn gngagtcgta ttaccgtaga tcccagacat gataaggatc 780
cattg 785

<210> 3674
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3674
ttcaaatcnc agctcttgtt ctttttgcag gatccctcga ttcgaattcg gcacgaggtc 60
attcccatac aatgcaacat ccggaatgag gaggaggtga ataatttggt caaatctacc 120
ttagatactt ttggtaagat caatttcttg gtgaacaatg gaggaggcca gtttctttcc 180
cctgctgaac acatcagttc taagggatgg cacgctgtgc ttgagaccaa cctgacgggt 240
accttctaca tgtgcaaagc agnttacagc tcctggatga aagagcatgg aggatctatc 300
gtaatatcat tgtccctact aaagctggat ttccattagc tgtgcattct ggagctgcaa 360
gagcaggtgt ttacaacctc accaaatctt tagctttgga atgggcctgc agtggaatac 420
ggatcaattg tgntgcccct ggagtnattn attcccagac tgctgtggat naactatggt 480
tcctggggac aaacttcttn naagggnctt ttcacaaaat cnccgattaa cgaattggtg 540
ttcctgagga ggtntcctct gaggtctgnt tcctactgtc tactgcncct tcttnattct 600
ggacagtcag ngcntgtnga tgggggccng anctctatac ccactcgtat gaggttccaa 660
atcttgacnc tgcnccaang ttccagggga ccntnttgnc ggtgaaaana natgnaagng 720
gacttttnaa ggngaanagc taancttcna acctctggna ant 763

<210> 3675
<211> 772

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3675
annccagttc tngttctttt tgcaggatcc ctcgattcga attcggcacg agacaggttc 60
ccatagctac agaggtgctt ttcaaactta cncagggaag tgtgaccttt gaagatgtgg 120
ccgtgtactt ctcctgggag gaatgggatc tccttgatga ggctcagaaa cacctgtact 180
tcgatgtgat gctggagaac tttgcactta cgtcctccct gggttgttgg tgtggagtgg 240
aacatgagga aacaccttct gaacagagaa tttctggaga aagagtgcca cagttcagga 300
cttccaaaga aggttcatct tcccagaatg ccgactcctg tgaaatatgt tgcctggtct 360
tgagagatat tttgcacttg gctgaacacc aaggaacaaa ctgcgggcag atgtcaaaat 420
acctgtacaa ttttaaaatg tcacaattaa acatgagctg gtttcccaca caaaanaaag 480
actgaagatn tgcattttaa ggatgacaac ataatggana aaattngaaa tagcatannn 540
aaaanctngg cccnttaaca natgnggntt gnnttgcccg aaatcccgnn nnggttanac 600
cccttggata ntttgggcaa cncccnantt gtntgccntn nanaaaaaag ccntttnttt 660
tggaanaatt tgggaancnt ttgggtttta ttttggaccc ccttttaanc nccannaaaa 720
nannttaan cccccnattg gnttnntttt ngntttnagg gttanggggg ng 772

<210> 3676
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3676
ggnnnttgcn aatncnattt gacccnttgc ngcaggctcc ctcgattcgc tcaagcaaag 60
ttcctgtaga caaagtaaca ccaagtactc ttccagaaga tttctagann ttgaaaaatt 120
ccttcagcan acaggntggc gacaaggngc cngggatgan nangagcacc actaactccc 180
tnaggtgcta nacacacata atgggaagcc aacatttatg gaagaagttc tagaacacct 240
tcctggaaaa acacangatg aagtcaacag catgaaaant ggtatcaaaa gttctggctc 300
tagaagaaag aaanncagag tcaattnana tntggnaaac tnnaaagcag cncaannggg 360
aggaaatttc caagtcaaag gaannggctg acaacacacc tgtgcttatn tcatancnna 420
cangaggatt ancaanngca ancagaggaa cantgatgag actcaganat nggcatgttg 480
aagctaggaa gaaacagaan agnntagaan tgtcaatgaa atgngcttcc ccattnaaan 540
acgaaganga gaaagngana naacatgaca aagancgcca gngccagttt angttnaaan 600
tactactnga aagttntacc cagcnacatg aaagaacagg aagaattttt gaggcttgaa 660
aaggagataa agggaaaagg cagaaaaggc ataaaaaagg aaaaagctgc tgatgaaact 720
tccagatttc aggaaagagt tgaaaacaat gttagtcgag atcccctctag gcttn 775

<210> 3677
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)

<223> n = A,T,C or G

<400> 3677
cagctnctng ttctnnttga gaccnctcna tacgactncn gcncgagggg attngaatgc 60
ccatgaaaga cattttattt tacttgaata tattcttgct tcactttacc ctccataata 120
tgttgtcatt agtgctgatc aagtttacag agttacattt tgctttccta accattcagt 180
caggaattaa aatatggcat tgtataacaa ctgggaagaa gctcatagtg gatataaatt 240
agagtagata atgggtcacc ttgatagcct ctgtttacat tacttgtata tgggcaaaat 300
aattattacc tatacgtgta tttaagctta attttcatat aaacagtatt tttaatctat 360
gttaaaatag ataatatcta aaagtgtgat ctctaggtag tccttagttt attagtactg 420
tcttcaaaaa gatttttaaa taggtccggc acggtggctc atgcctgtaa tcccagcact 480
ttgggaggct gaggcgggcg aatcacctga ggtcaggagt tcgagatcag cctggccaac 540
atggtgaaac cctgtctcaa ctaaaaatat aaaaattagc cgggcgtggt ggcangcgcc 600
tgtaatccca gctactcggg angctgangc aggagaatca cttgacccaa ngggcagaag 660
ctgcagttag nccaagatcg catcatttgc actccagcct angggacaaa gacgcgagac 720
ttcatctcaa aaaaaaaaan nttnnccnnn ntnnnnaaa 759

<210> 3678
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 3678
aaaaaancag ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagctg 60
gaaggggcag agcccaggac agggctccat gtccacagga cggcgaggag cgaagaccat 120
ggggactgag tacacagatg aagacacaga agcatagaga ggataagtaa tcactagcaa 180
gtggaagaac cgggattcag atccagaaca ggctgactcc agagtcactg gctgtcatgt 240
agtttcctca actactgcct cagctctaca atcccagagt aaagctcttc tccaaatgaa 300
gagccaggaa gaggtagagg tggcaggaat taaactttgt aaagccatgt ccctgggttc 360
agtgactttc acagatgtgg ccatagactt ttcccaagat gaatgggagt ggctgaatct 420
tgctcagaga agtttgtaca agaaggtgat gttagaaaac tacaggaacc tagtttcagt 480
gggtctttgc atttctaaac cagatgtgat ctccttactg gagcaagaga aagacccttg 540
ggtgataaaa ggagggatga acagaggcct gtgcccagat atcctgaaaa tgcccatcag 600
taagttgaac aagaagaacg ggagctttaa gaacaagatt caagatgaaa caacacaagt 660
gttgaatatt ttataaatag ctaaaggcag aaaacgttgc caattatctc agacttncag 720
aagtgaaaac aaacaaacaa acaactnaag tcttaattga at 762

<210> 3679
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3679
aaannccngg ctactngttc tttntgcagg atccctccaa atgcttgggg cacgagggtt 60
cagagaaaag taggcagaga aaggcagttt aggaggtgac acaagaggga agcctaagga 120
gagagaactg gatggagctt cccaggtgat gacagggttg aactccaggg ctatacccag 180

ctgagcaagg agagctttgc ctcttcagga gactggaagt tggggaagac tccaacaggc 240
ttgtggtcag aagctcagga gactgggaag gaaaagtgaa tttctgagga gtcctagttc 300
atttcattaa tttgttcaat tctttaacgt atgtttatta tggacctact atgttgccag 360
acgctgtgct agctgttagg gacacaatga tgaacaaaat aggcatagtt ttttacccca 420
tgagagttag agggtggtgg ggagagtcat taatcaaatg gcacaaacac atgtaaaatt 480
accataaagc gggtgataca gaaaggcgac tggtgttagg atagctaaaa aagagggatt 540
tcacctggtc aggtgggtca gggaaagctt cttagagaaa gagggacttt gggcttgatg 600
aatgaaaggt gaatttccag gcaaagaaga aaagggagga ngcttctagg cagaaggaac 660
ttcctgtgcc atgatctctg agaaatgaaa gattaacaaa ggccaattgt aagtngaacc 720
agaattgaac ccaggaangc cccaaanttg agaanaaaaa ggcccagggc aagggccatt 780
ncntggnt 788

<210> 3680
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3680
ttcnaatgct agttctcgnc tttctgcagg atccctcgat tcgcacctaa cattaggtgg 60
cacttaatag tgatgataat cacttatgga gtctactaag atgttttgaa tcccttctcc 120
cattcaaaaa tcttgncaac cctgtgagac agatatgctc accttactga tgagtacggn 180
ggcttggcaa agtaggtatg ttgnacatnt tacacagctn gtnactgnaa gantcnntnt 240
catatactcc cagattcaga actttaaata accccatgct accttctagg gaaagcttct 300
gctatgtgtt tggagggtna ggtgaganaa aggngaatnn taatctncca acatgctcac 360
tccttttttcc tgctctgtgg gggatgtaag tgaataaccc cagtgctgtg gtgcactcgt 420
taatcttgta gcantgacan gtggaatgtg ggtctgcagg tggccttggt atggtgggga 480
taactatgtg ccttcacctg tccctacaca ggcataccta ccagcttgcg tttgctttcg 540
acatgtntgg gcaagngtga attgcctctg ctnctctgga gagatgggcc ctgtggctgc 600
tntgggaaga acatcaaatt ttgcgtncat ttacatatgg catnctgtgn ntntggaatc 660
tatgcatntn gtgttccctg gcttcaaagt tngtaacnna tgtggtnaga gccaaaaccc 720
ctacttgtgt accaaaggaa ggngcttang gaanaatggc ttt 763

<210> 3681
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3681
ttctaatgct tggctctcgn tctntctgca ggatcccatc gattcgaatt cggcacgaga 60
gagaactagt ctcgagtttt tgacagataa tagccaccct aggaggtgtg aagtggtatc 120
tcattgtggt tttccatttt tctgatgact gagaatgttg agcatctttc cctgcgtgtt 180
gtccatttgt gtatcttctt tagagaaata tctgcttacg tcctttgccc agttttaatt 240
ggattgtctt tctgttgctg agttgtcgga attggttgta catcctccat actgagtcct 300
catcagatac ctgatttgcg aatattttct tccataccat gagttatctt ttcactttct 360
taatggtatc ctttaaagcc ccaaagtttt taattttgat aaagtccaat ttatctaaaa 420
aaaaaaaant aaaacnnana naaatnnaaa anaaaaaaan ctngnncctt taaanctnta 480

gngngtcgtt tncgtaaatc cnnncntgat aanatccatg gntnanttng nacaaaccac 540
aattnganng cagggaaaaa anngctttnt tngngaaatt ngnnanctnt tnncttaatt 600
tganccattt ataagctgcn antaancang ttaccancnc caattgcttt catttaangt 660
tnaaggttca aggggnaggt tnnggangtt ttnaantncg gggccgaggg cncnaaatgc 720
attgggcccg gncccaantt tngncccntt nanngngggn taaattgccg 770

<210> 3682
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3682
ccnngntttc naaatnccag ctctngttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagaggt gttgaaatta cagaagggac catttctggc aacacagcag accagatatc 120
ctataaaagt cttccattac agaacaccta cacatcagga gctcaaaaac agatatattc 180
tttaaatgtc tagccaacat tttggaaaag tgtgggaaat ccctcagggc caaaaccaga 240
gggagttgga caccagagtg ataagcagac actgaaggca aggccaacct cagggcttgg 300
ctcaatattc tagaacttta cccttgttct caagtctccg tgtggacagg ggatgagggt 360
tacctggttt ctgctccttt gactatggca tagactctgt agatgtctgt aattgaccgg 420
gaggtatgta gatgactgta tcaagttatc ctcctgaccg ggcgcagtgg ttcatgcctg 480
taatcccagc actttgggag gtcaagacaa ggaaggaggt gagctgacag atgtgctgga 540
agagcacaag gaacccacca gtcaggcatg atctcggaga gggcgcttgt ttgggggtta 600
ctcagtgaga cctgggaagg anagaaggga ccttttctgc angacggtgg cctggagaag 660
aagctctttt tccactgaaa caggaggaat ggcggggaag gatgaatgga tatgtgtatt 720
aattatctat tgctgcatga caaatacgga tcactcaagt ccaggagttt gagat 775

<210> 3683
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3683
ttccaaatac catttnangc cttnttgcag gctcccatcg attcgaattc ggcacgaggc 60
catgttggcc aggttggtct tgaacttntg acctcanttg atctgcctgc ttcggcctcc 120
cagagtgctg ggattacagg tgtaaactac tgctcctgnc ctgnaatcca ttttatnatg 180
ggaagcacan ttacntagct aatacttggg ggcangagct naagtnanna ttgcatcnnc 240
antaatnntt agaatgaata tanattgaag tcttggggta tcccggcatg attatgtcag 300
atgaaattat gtgatatgca naaggaaggc ctcctgcact tcatgnctnc agctnantnc 360
tacananggn caagggncna tgannaatnn ggangagggn tncttgantn gaatanatna 420
tntntcactc agnttaaagc ctgtaatccc ancactttgg gaaggccgag gcaggaggat 480
cacctgaggt caggagtttg agaccagctt ggccaacatg gcgaaaccat ctctactaaa 540
agtncaaaaa ttatctgggt gtggtggtgg gcacctgtaa tcacagctac tcaagtactg 600
angcagaaga atcanttgaa cccaggangc anangttgca ntgaacccga gatcacacca 660
ctgnactcca ncctgggtga ccaagaatga aactcccgtc tcaaaaaaaa nannnnnaaa 720
aaacttcgaa ccttttagaa ctntnnttga gtcntntttc cntnnaaccn nanc 774

<210> 3684
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3684
atccnagnta ctcgctcttt ttgcaggatc ccatcgattc gaattcggca cgagggaagc 60
tccaggcctg gcgtgctgga gtcacgagat gagctgtcca ggctncatgg catcgtgagt 120
gaactccgac cgtggcaggt gaggcttctg cacttagctg gctgtcttca tgtgggccga 180
ttctgtggtt agtgattctg atttctcatc tgaaaagtgg tgcatcactt agcccctccc 240
acacttggag ggttctacta gtgtgcctgc gtggctgggt tctgcacact cagctacttt 300
agtttcttta gtctatcctt aaaaagattc ctaggtgtgt tcctgatttt gaggttccgt 360
ttggtcatta tgctctttca gagttcatct tttaaaatca gtctgtggac attttttttt 420
tcctcttagc acagtttatg gtctcatgca ggtcaacaaa ttgggactct gaatgtgagt 480
gtgtgtgtcc acacaccact agggcttatt accttattgt caatgttatc ttaagaaaaa 540
gtggaggctg ggtgcagtgg ctcatgcctg taatcccagc actctcagag gctgagatgg 600
aaggatgctt gagcccagna gtttgagacc agcctgagca acaaagcaag actcctgcct 660
ntacaaaaaa aaaaaaaaaa aactcgagcc tttanactat agtgagtcgg atttacgtag 720
aatccagaca tgatagatcc attgatgagt ttggg 755

<210> 3685
<211> 889
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(889)
<223> n = A,T,C or G

<400> 3685
gctgggctac ttgttctttt tgcaggatcc catcgattcg aattcggcac gaggtttaat 60
ctctttaact atcaaattgc aatttttttt ttgccttgca aataaacaaa ttacaattgt 120
catttactgg tgagacaatg agaaaaagac accctcaaac actgttggta gaacacaaat 180
tgttaaaatc tttctaggag tcattttcaa attatgtatc aatgacctaa aaatatttat 240
gtctcctgtt cttatacttc cagaaatcta ttctacagta ataaccggag ataaaaacct 300
ttacatataa acatgattta ttatactgaa aagtcaaaac aacataaata ttaaaaatag 360
gaggtggnan atttcacctt taaatgctat gtaggagaat acttaaggga ttggtnaagn 420
ccaatagttt tngtattang tggaaaatgc cngaatggca tgaatgntgt acaaananag 480
cnntcatnnn ttgccactct tngtcataac cncntcgctc ttcnatgcat ncccccattat 540
tacaaactgt tcncnnanac tcnncnttca ccangnctcc ngcnnntncn annncgancn 600
tctncctccn cancnnnccc ccgctcnctc nttctcnnca acctngctcn ccccncacnc 660
ccnactcccc ccncnttact ttnnccccacc natccncgnc acnnctntnc ttcnnncatn 720
ntnccccnnc ctactcnccn nntagcnctc cncnttccca cacttnnctc nnntctgnnc 780
cntccnttcn tctcncttac tacataaccn ncnctcttct catctctctc ttctctctca 840
cnnaccccat ccncnncnnn ctcttcctct cttannctct cactancct 889

<210> 3686
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3686
gaccaattat atgacantta ccagcgaacn anaaggctgg gcgaaaanat caaaccatcc 60
tttgctggca ttaaatattc aagttgaaga tccttcacct tcctttaatc ctatattaga 120
gtctataggt gtgtctttct tatagcaatc ctgcactcac ataaaaactg tattttcaat 180
ataagatcaa aatgtatttc acaaaaaatg catctttata tttgtttaca tttctcctga 240
ctgaatggtg ccatgtacag tctgtgtaag ttatagaaaa cgtttgccaa ctcgtagtct 300
accattttgt tatttgtttt ctatttgttt cgtctgttct ttactgcttt gttttccctt 360
tcctgccttc ttctggatta attgagtatt ttggtaatcc tttttaatct cctcttttgg 420
atttttagc tatacttacc tgtttttgtt tttgtttttt aaggcgttgg taggaaataa 480
tgtatgcatc cttaccttat taaagtctat tttgaaatac tgttacactg cttcatgtaa 540
cttacaatat gaacctcaca acagtatagt tcattttccc atcccagtat attttacttc 600
tttgttataa accccatctc tactaaaaat acaaaaatta actgggtgcc agtggtgcgc 660
atgcctgtag tcccactacn ttgggangct gangcaggag aattgcttga accctgngag 720
gcnnangttg cagtgagtcn agacgcncca ctgcactcca ccc 763

<210> 3687
<211> 829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(829)
<223> n = A,T,C or G

<400> 3687
gcntattant gtgncttatt antgtggcct aaananatag gctggggcga attcggnacg 60
agcttaacat aacctatgag agtggacagg tgtatgtaaa tgacttacct gtaaatagtg 120
gtgtaacccg aataagctgt cagactttga tagtgaagaa tgaaaatctt gaaaatttgg 180
aggaaaaaga atattttgga attgtcagtg taaggatttt agttcatgag tggcctatga 240
catctggttc cagtttgcaa ctaattgtca ttcaagaaga ggtagtagag attgatggaa 300
aacaagttca gcaaaaggat gtcactgaaa ttgatattnt agttaagaac cggggagtac 360
tcagacattc aaactatacc ctccctttgg aagaaagcat gctctactct atttctcgag 420
acagtgacat tttatttacc cttcctaacc tctccaaaaa ananagtgtt agttcactgc 480
aaaccactan ccannatctt atcacgaatg tggaaaccac tgtngatgaa gatgttntac 540
ctggcaagtt accngaaacc tcctctcaga gcananccgc catcttcata taangcnang 600
tgntaattgg atgggaanaa gctncaanaa gatcctgngt tnngnnctgg agcaaccnnt 660
ttacccccgc atttcctttc tanttnttag aacntccatc ggttggnttn ggcaattncc 720
ncggaannen gcntnttgcg gncanctnan cccntnttta aaangttgtn nttctncccc 780
cantttnct tgnaaatccc tacanggcta attccttcaa ngcttcnct 829

<210> 3688
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3688
tnctaatgct gggcttgntg gcttgccgca ggancctcg attcgaattc ggcacgagat 60
agagaggaac aaagataaga atgacagcag atgtgtggtc agaaattatt caaggcagaa 120
gacagtagaa ctgaaaaaga aagtaggtca atctagaatt ctatacccaa cacaaatatc 180
cttcaaaaat gaaggtgaaa taaacacttt ttgatggaca aactgaagtt gagagaattc 240
gtaaccagca gacctgtagt acaaaaaatg ttgaggcaag ttttttaggc agaagaaaaa 300
tgatactaga tagaaatttg ggctgcacaa aggagtgaag aggcttccaa atggtaaatt 360
atatggaaac atatgaaagt tatcttttct cattttaat ctctttgaga aactgcttaa 420
agcaaaaata taaacaaggt actttggagt ttagaacata catagaagca aaatgtatga 480
caaaaaatac taaagttagc caggagtagt ggtgtgtgcc tgtagtccca gctgtttgtg 540
aggctgagat gggaggatca tttgagcgag cctgagaggt cgaagctgca gtgagctgtg 600
atggtgtcac tcactccagc ctgggcgaca gagtgagacc ttgtcttgaa aaaaaaaaaa 660
aaaaaaactc ggcctctana ctatagtgag tcgtattacg tagatccaga catgataaga 720
tcattgatga gtttggacaa acccactgga atgcagtgaa aaaatgc 767

<210> 3689
<211> 986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(986)
<223> n = A,T,C or G

<400> 3689
acttattntg ggnctaantg gngngccaaa aaaaaggntg gggagcatgg cttagntggn 60
atcntgagan taatnatgag atctacnctg aaatgactta acctanaatt aatgtgtggn 120
cagnntgnaa tatgtgaaat tnnggcntta ncnctctttt ggcnntataa aaatctnnna 180
ttaaaaaaca tgncattnga attgaacatg tgcntaaccn ctgaantatn tctganaaac 240
cctaggtncc gtggcatatg ngatgaatnc canngacnna tnnaaccnca tnttacatan 300
nntcacngcn tatnnaacat caannatgct tgngnaaagg gntannantn cncaacgact 360
nttgtttnng agcanctntc ttngntagac cttntnaccn ncnanggntn ctcttaacnn 420
gntgatnntt nactcatcnt tcnctttctt tcctattctn nnnntccaaa gtttccncnc 480
nnaagnnann atgaatnant ngtgnncnnc caccctnatn attntanata nncgcnattg 540
aaatntaata canntcccnc tnncctcnan nnaatnccat nncatctnan taaaantata 600
ncantnncnt tnctnaccnc nnaaagattc aaanttcgct ncccttnttn ncnatatact 660
ctnnatannn atannccgaa attntcancn ttctantnnt nacntancaa aactcnctat 720
agnaccctca catncctcng acacnatnat nnccaanaac ctntaatcgg annnnacntn 780
tctgaatnnc tcncactcct nttataccnt ntnntcattn taactctatc atctngnant 840
angnccatct ccctcanatc taaacanntt ntngcnctcn nntagnggag antgtctctn 900
tacgnctnan aanggcttct cngatcntcn naatactcnt atagagacta tacnctcatn 960
attgctcaca ntatctacaa cacnng 986

<210> 3690
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 3690
cnnattannng tagctggatg ctggcctaaa nanaaggctg nggcnaattc ggcacgaggn 60

agcttgtggg nnagacnanc aanggtgcat gangaanaaa acnnaattca ntaagccngn 120
naggnacagc ccatagtctn ctcgattngt acaatcaagg cggacatttn ctggntatgt 180
ggannagagg ttaattggcn gnctatgant ggnnnagcct aaanttgngn ntacntgnat 240
nnnntnatnt gcnnanaaan gcatnngant tanagntncc aaaagntntg aaccnaagga 300
ctanagnaac anacnnntna tngcctggtn ntcagtnata ncnacaccnc acaggggacn 360
ngatnttncc cngnanttnt nacaggtctc nnnanctggg actcaagncn ncccatcatg 420
caatnncttc anannaactt gtgacttgca ntnnnatact anancttnan tcccttntta 480
cattcctcaa atgcncaact ccnctttтct taattccnat tatnnactnn ntnnncnngc 540
ttattggncc actnntanca tncnggnann nccaactaan cnnattnntn gannttgata 600
ttggngcctt aacnaacana ncgtnnntat cgctnngtca ccantctcac tcattnatca 660
annacnnnng cnnnantnat tctcnatcna nncnnanttt gctanantnn nctttcccnn 720
cnttnanttn ctannaaacc ccctntcnnn ggcnccaatn gnnaantngn acccnnncnn 780
tctnnanggg ntnactnggc cncatacctc ctgngcaanc tntnaanngg canactnctn 840
ntcncct 847

<210> 3691
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3691
ctaatngctg ggctctngnn ctttnngcaa natcccancg attcgctgca aaatggactg 60
tgattcagga cctcctcctt acctacgagc accctgggag ggactgacta atggcccagg 120
gacacacagt catcctctgc aggcaacagt caggcttcta cttgctgaag ccgtcaaggg 180
cttgactgtc acactcagtg ttctggaaaa caaatcagta aagcaattta gaggatcttt 240
tgcaaatcag agaaaaagaa tcaatacaag gcgaaagaat tctgatcagc actttaaaac 300
gtgcttatca gaaacttttc ttctctcttt taagctttgg ttctaactga gaaatgcact 360
ggataatagg taaccctccc cagaagaaca tggacttcat catttcacca gattcacttg 420
ttcccttaa ggcccagcca ataaaagtat atggtatctt caagctctga tttcctaata 480
tcagagataa aaagccatgg gaacgcagag acttggtgaa tttgtaaaaa tccaaaaaga 540
aaggccagtc atgacggctc acgcctgtaa tcccggcact ttgggagggc aaggcagaag 600
gatcacttga gcccaggaat tttgagacca gcttgagcaa catggtgaaa ccccatcttt 660
taccaaaaag ataaattatc tggacatggt ggtgcnagcc tgtantncca gcaacttggg 720
aaggtgangt aggaggatca cttgagcctg ggangtggaa ggtcccggtg agccc 775

<210> 3692
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3692
agnnnttcta atcnnnnttc aaatcgctng gctactngtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggg ccaaactagg gcctgctctg acatccgcaa tgtacgtcca 120
ctagcagtgc gcaagacctc ccgcgagaca ggtgttgttt ttaatgccca tctcacagat 180
gaggaaaaga tctcaaagta ccttgattat ttacccaaag ttcccgaccc aggcctttaa 240
aacttttтat gcatgcaccg cctcttgacc acatcagaca atcaccacaa aacgatgggc 300

tgacagttac tagagggtta gtaacttatc tttaaaaggg ccaggtagta aatattttag 360
gctttgtggc caaaagtctc taccacacct actcaactct gtcacgctag cacaaaacag 420
ccacacacaa aaaccaaatt gggcagctga aaaaaaaaaa ataataatta cttaatgaan 480
aaanaaanna nacnanttga nnnttcttnn tttttnatnc natnatcccc tcntgtnatn 540
natccnttna tgtagcttgt gacaagnncn ntncttnaaa ncatcnnnat aaaaannncn 600
nctnntttnt tnaaaaacct tnnatcctct tncanttntt tggnnganat ntttnancng 660
tntaaaanna nttttttcaa aaannnattt tnaanaanta taagtcccng ttttttttngn 720
tttcgggnnn ngggttttta annngggncn tnngtcccaa nnctttgggn nccnaaccnn 780
tttnn 785

<210> 3693
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3693
aaatncnagc tactcgttct tttggaaggc cnncatcgat tcgaattcgg cacgagattt 60
tcatccgagg cattgtctaa tgatgtccca ctgcgaagga taaagatgta gttttctttg 120
actctgccac ctcccactac tcagctcact catacttcct gccatctttc atcttcccaa 180
taagtatatc attatggnta cattagtatc agggtttaca ttattatgac catgtaaatg 240
ctatttctaa ctgagccatg tagtatactc tgatnacttt nnctttcttg cncaactttg 300
nctntnctat ggatngctac ttatccatat tgcttatntg ctaagctttc tgtatactta 360
tcattgncta tgnntntgat ctccaaattn tcctncaggt gcctgaattt cctctnggna 420
tgtccagacc tatctaaatn ttatantaat ttaaccttct tggtgacatc catnctgnag 480
nctttgttca cgacaatgct gtcatgctga gattaactgt catcattatg ggtatcnact 540
ttgcctacat ctgngtctnn ttnggatctc tnnnttgtca gaccccttnc tttcactcnc 600
ttggnctgca ctnaaattng gtggagcaca tgcaatanta ngntcctgag gtatggtgaa 660
tgggaggcac atnattgagg tctngcanac tgaaaatggt ttacaggagn ggcaaaccat 720
gacccataga tgaaatgtac ctggnacctg gtt 753

<210> 3694
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 3694
caaatcncta ggctactcgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
catagagacc atcatggcat gctccccgtg tgaaggcctc tacttttttg agtttgtgag 120
ctgcagtgcg tttgtggtga ctggcgtctt gctgattatg ttcagtctca acctgcacat 180
gaggatcccc cagatcaact ggaatctgac agatttggtc aacactggac tcagcgcttt 240
ccttttcttt attgcttcaa tcgtactggc tgctttaaac catagagccc ggagcagaaa 300
ttgctgcccg tgatatttgg cttcttggcg actgcggcat atgcagtgaa cacattcctg 360
gcagtgcaga aatggagagt caanccgtcc gccancanaa gcaccaatga ctacattcga 420
gcccgcacgg agtccangga tgtggacaag tccgcctgag atncancgcc tggacacgct 480
ttttctggta angaccgctg ggattgaaca gaacttccgg taaataangg ccccgtcggc 540
aagacagcat actgctgtca caaagtgcna acacctggaa aagaaagaca agtgtcactg 600

gcctaaccat ggtccccact tctgtcattc acacaagttt taagtgggtc ttgccaccan 660
aaatcctctt ttgctanggt actccggaat tgcttccctg nggctttnat cttaaatact 720
taaccatggg annaagactt tcaagaagan tcaatcttta attccttccc tcaattggct 780
aaaatttttc ttaaaaaaa 799

<210> 3695
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(876)
<223> n = A,T,C or G

<400> 3695
gnnnnnnnnn tttnnaactt nctaatncng gctactngtt ctttttgcag gatccctcga 60
ttcgaattcg gcacgaggca gtgactgcct tcggcttttt ttctgctgac taagatctcc 120
tatagagagc tacaacaatg cccaaaagaa aggctgcagg tcaaggtgat atgaggcagg 180
agccaaagag aagatctgcc aggttgtctg ctatgcttgt gccagttaca ccagaagtga 240
agcctaaaag aacatcaagt tcaaggaaaa tgaagacaaa aagtgatatg atggaagaaa 300
acatagatac aagtgcccaa gcagttgctg aaaccaagca agaagcagtt gttgaagaag 360
actacaatga aaatgctaaa aatggagaag ccaaaattac agaggcacca gcttctgaaa 420
aagaaattgt ggaagtaaaa gaagaaaata ttgaagatgc cacagaaaag ggaggagaaa 480
agaaagaagc agtggcagca gaagtaaaaa atgaagaaga agatcagaaa gaagatgaag 540
aagatcaaaa cgaagagaaa ggggaagctg gaaaagaaga caaagatgaa aaaggggaag 600
aagatggaaa agaggataaa aatggaaatg agaaaggaga agatgcaaaa gagaaagaag 660
atggaaaaaa aggtgaagac ggaaaaggaa atggagaaga tgggaaaaan nnaaaaanan 720
nnnnnnnnnn nnnnnnnnaa aaaaaaagcc tnttagaact tttaggggag tccgtatttc 780
cgtagaatcc ngnacntgga taaggatccc ttggatgnag ttttggacaa aaccccaact 840
tggaaatgcc nttgaaaaaa aatgcttttn ttttnt 876

<210> 3696
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(876)
<223> n = A,T,C or G

<400> 3696
gnnnnnnnnn tttnnaactt nctaatncng gctactngtt ctttttgcag gatccctcga 60
ttcgaattcg gcacgaggca gtgactgcct tcggcttttt ttctgctgac taagatctcc 120
tatagagagc tacaacaatg cccaaaagaa aggctgcagg tcaaggtgat atgaggcagg 180
agccaaagag aagatctgcc aggttgtctg ctatgcttgt gccagttaca ccagaagtga 240
agcctaaaag aacatcaagt tcaaggaaaa tgaagacaaa aagtgatatg atggaagaaa 300
acatagatac aagtgcccaa gcagttgctg aaaccaagca agaagcagtt gttgaagaag 360
actacaatga aaatgctaaa aatggagaag ccaaaattac agaggcacca gcttctgaaa 420
aagaaattgt ggaagtaaaa gaagaaaata ttgaagatgc cacagaaaag ggaggagaaa 480
agaaagaagc agtggcagca gaagtaaaaa atgaagaaga agatcagaaa gaagatgaag 540
aagatcaaaa cgaagagaaa ggggaagctg gaaaagaaga caaagatgaa aaaggggaag 600
aagatggaaa agaggataaa aatggaaatg agaaaggaga agatgcaaaa gagaaagaag 660
atggaaaaaa aggtgaagac ggaaaaggaa atggagaaga tgggaaaaan nnaaaaanan 720
nnnnnnnnnn nnnnnnnnaa aaaaaaagcc tnttagaact tttaggggag tccgtatttc 780

cgtagaatcc ngnacntgga taaggatccc ttggatgnag ttttggacaa aaccccaact 840
tggaaatgcc nttgaaaaaa aatgcttttn ttttnt 876

<210> 3697
<211> 1151
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1151)
<223> n = A,T,C or G

<400> 3697
ttctaaatac taggctatng ttctttntgc aggatccntc nattcgcgcc gcaagctgct 60
gaatgccttg ggactagctg gtgattacct cgcccagggc ctgaactcac cctggccagg 120
tccanacctt tctgctgtgg ggagcaaggg ccctggtcgt ctactggctg ctggctctgc 180
tnctcggctt ggtcttggcc ttgctgggcn gatcctgtgg ggctgaanct tgtcatttta 240
cttggccgnt ttcttggccc tgatgaagtn ngtgccccga aacctttta ncccgggccc 300
tggttaattc tggnccttg gttgaatcct cttaananca ctgcttatan cccngnttta 360
aannggnttt nccaaaacct ctttnggggg tnnaaaaatt ttataggcca aaatgnntnn 420
caaanggctt ttnnaaacnc ccnctttggt aanggaaacn tttagncntt nngnccccnt 480
aaangnccaa antcggnncc anaaaggggg ggccccncca aaaanttggn aatgnaaagn 540
aaanttaaaa ccccgatntn gcncccaaaa aaaaaccggn ccaatnngtt tcattaaccc 600
nnaaaaaaaa acntttaaaa cctgngnttt tntnngnggc cccaattttc taaaaaccct 660
tntcctttgc ccaaaaacnc ccccccttggg gnccctttntt ttnnaatttt ggnccccctt 720
ggggnccttnt ttttngaaaa aacctttttt aaagnaaaaa caaattttgg gaatnnnctn 780
ttttgccccn gnnanaaant ccccccccaan antttttagg nccccccaagg naagggnaaa 840
aaaccccnctc cgggaaaaaa gggnaacccc caanttttnc ccccccccctn tgggcctttg 900
ggttancccn tttttgccgg ggggnnnnccc ttggggnnnn tttttttnnt aaanggggggt 960
ttccttcttt gggnccctcn gggggggggtt tttnggggct ntttnttntt tttaaaaacc 1020
ccccttttn atnntntggg ngttttcnnc aaaaaccttt ggggcccttt aaacccaagg 1080
gggaaaaagg ttttttgaaa aaggggggcc cttatcnctt tttngggctt tntttgggna 1140
aaanatgggc g 1151

<210> 3698
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3698
atacagctct tgttcttttt gcggatccct cgattcgtgg aacaggagag tcgcatggag 60
gtactgtttg cctgtgctga ggccctgcat gcgcatggct atagcagtga ggcctcccgt 120
ctcactgtgg agcttgccca ggatctgcta gccaacccac ccgacctcaa ggtagagccc 180
gcccctgcca agggcaagaa gaacaaggta tccacgagcc cgtcagacct gggtggctac 240
caacaccctg agcaaggcgg ccttcctgtt gacagtgcta antgagcgtt cagagcacca 300
caacctggcc ttccgagttg gcatgtttgc cttggagctn canangcctt cancttntac 360
aaggncttgg aagtgaaact tgcattccan gaatctgaag tggctgncct gctcaaagaa 420
gatccctctg ggtccaaatg agatgagtac catgccgtgc cgggcanang aacttcggga 480
ggggacactt ctgtgactat cggctgtgtt gnctctcatg ctggccagtt catctttgac 540
gtctctgtgc tccaagtatg atgcctgacc ctacagtaag tggggaactg gggtangggt 600

agctttctnt taanaaagan cnaagacccc aagtttctga atcaccttta ggaccatcag 660
caacttcatg ggttnccggc cccaagtcgc aactggaaca ncgagacacc ttggggataa 720
gaancttgga tttnaacaca nnttgcttgc cttgggcatg aaaa 764

<210> 3699
<211> 867
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(867)
<223> n = A,T,C or G

<400> 3699
ttcctaatgc tnggctactc gntctttntg caggatccnt cgattcgaat tcggcacgag 60
aatgaaggtt ggggagaaaa gaaagcaatt taggagactc tatagggagg aaaggatgag 120
atgcatttca gaaacaaaat attaacgtaa acagaaaaaa gagaaagcaa tcatgacaaa 180
gcctaagagg gctagtggaa tgctagaatg aactcattta ccttcctttg atatttangg 240
gctctattgc ctgctaattt catcactgnt atttttctta cctcttatct ttttccctgt 300
agttattatc agcctaatat tcattcattc attcatttac cttgagtttt taagcttgtg 360
cnnaaaccaa caaggttggg gcccnagttt ncnagaatgn ngttncccna cnttggnaag 420
taaacntggg ttangggaaa aaangtnncc ancttggccc tttttaaaga caccaangtt 480
ttacccncat tccatggggt tcaatgggga aggaaaaacn aaaggggant ttattttgna 540
aaaaactgtt gccaagattc ccgaaagggg agccccctng aaagctttta aacctnccaa 600
nnaanccttn cnagaccctt ttggcctttt aaatnccctt tttaaaaagg ccccccantn 660
agggaaaaaa ttcccagant gaatggggtt accnggtctt gacctttang gaacatgtan 720
gcttgncttg cccnatgttc ccncaacatt nggtcccctt ttacaatgnc cttantacat 780
taatnggngg gcccctcatt ttnaaatttt aaaaaatttc attttancct tttaaaaaat 840
tcnttttngc ccaagaaaat gttttct 867

<210> 3700
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

<400> 3700
tncntatnct ttgaantcct ttttgcggat ccctcgattc gctttttta gtgatcactt 60
ttgaattgtg ttcagatatg cagtttcagg tgtnatcatc agagctggtt agtcaggcat 120
tccagatagt ggttcttttc agaacctttt taaaagggtt gggttaacta cctcagtagc 180
agaggattga actatacct gtctgtactg tacatagaaa atctttgtag ataaaagcaa 240
ggcttgttaa atatgatatg agggtaagat tttaatatac caaatgtaac attcttagtt 300
gcctttagtt tcanaggctt gtaagacttc ctcatgaccn tnattacagg ccttgctttt 360
ggccgnattt tggggctgaa aaagcaccct tgcttcttca ganattgnag ntatttggat 420
gtataatagt ttanccagat ggtacttttg gtaagacatc agatgttcaa aaaagtgcat 480
tccaacttgt ctaaatactg cagtgtcccc tttataaaaa ggtcagacct aaaactggcc 540
aatttgntac anccggaanc cctggncatt ttgggatatt tttggaaagg tttttttcca 600
ttaaaattca tttgggaaaa tttaggtaat tattngggct tggtaaaggt tttaaaccct 660
ttttttaag gggtnaaaaa angggtattn ggttttccaa ttttaagtng gccatttcc 720
ttttcccttg gcttgggnat tccacctggg tnaaaaacca ttggttggga aaatccnaag 780
cctttttncc caaattttcc ctttaatggc ccangggttc caattggaat naaacctttg 840

ggtaaaaaag gtttnnaagt ttcccaaatt ccatttttgg nggccttaat ggggtttttt 900
taaaaatttt tccttnaaaa gccnnccccct ttggt 935

<210> 3701
<211> 977
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(977)
<223> n = A,T,C or G

<400> 3701
atnccancta cttgntcttt ntgcaggatc ccatcgattc gaattcggca cgaggtttta 60
agtattctca tccgtcaact gggattggta atagtacagg gctgttagga tgattgcatg 120
agatgaaata catttagcac ttggtaagca ctctataaat atggcaatat gatagtccct 180
gactcatctt cctctctgnt gccctttaaa caggtgagca cctagccttg ttggttttat 240
gtgctcaaca gcagttggac ttcccctggg ctcctctacc catgctactg cgtagtcaan 300
ccctccataa anctnctctc tggnctctgg ttcccanatg gnctttggcc tttccttttt 360
ccttcccanc ttaacgtttt taaccatgcc ccngggaatn ttttttgaaa angggaaact 420
gganccttng gtnccccngg ctttaaaaaa ccnnccaata aatttnttac ccncattagn 480
agggnntaaa aaaancctaa ctttttgggg gnggnantac ctgggacttt ttctttccga 540
acttttttcct ggcccttcaa acttttccaa ccctctttcc ccggtncatt ggggatccct 600
attacccggg aggaacatta cccaaaaatt nccttttaaaa ttttcttncc aaaacattgg 660
aancctttttt tcccgggctt tctttttcaa taatggtanc aatggttccc aaaaggccaa 720
atttnattct tggnccttttg gaaacctttt tggggaaacc aagaacttca actttccatn 780
gggccccagt ttttttncca attcaaggga aggttttttg ggcttggtaa aagggntacc 840
ccaacaantt ggccaaggga aaaaaaaaag aagcccacct tgggggcctt naaacctggg 900
gtnggggggaa naaaccccctg gggggtnccc cttngggttt tncctggggg nccttnccca 960
accttaagnc cccacna 977

<210> 3702
<211> 932
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(932)
<223> n = A,T,C or G

<400> 3702
naatcccagc tacttgttct ttttgcagga tccctcgttc ggaccctcat gccccgcttc 60
tgctccagcc tttcttactc attaggctct agtctcactt cttatttttt aaattgtgag 120
taattttcat gcttggtagt tgatttcttt tccatctctg natgcatact tcctgcacct 180
agtaggcact tgatttttttt ttctttgaat acacagcaga tgccatgtna actcattagt 240
acttgcctca aaacactgaa ttcttacctg ngttaaatgc ntgaatcntt taaacttttt 300
aagtttacct agaaagtgta taaagnggga actaatcnnt tntgantggn nataccnccc 360
nngntttgaa aactaccttt gancnttttt ttccttttta atnaagctct taaaaccggt 420
taancagccc cccgnggata nnaaagaanc ttttaagctg gggggaacnc cttcattttc 480
ccnggaaaaa aaacngnncc aagggcttgg ggaaaaaaat gccnctaagg gattgttttc 540
cagccnttcc agaaatttttt gggccnaacc tggangaagc ttcaaaattc caaggaaatt 600
ntggtaaang gggnttttta tgaggccaaa ttaaatnggg nccttttagna anccccnttt 660
aggaccaatt ttaaatnggt ttgnaaaagg cccagccttn ggtnaacctg ggnccccttt 720
ggctttngct tttttngggn ccattcnttn atacctgggc naaaatttaa ggnaaattta 780

cctccaggtt tnaaaaaaat nggncncctt tnttggnaaa aaagtttccc ttgggngggt 840
tttaaaggga aaaanaanaa aangnnaaaa aaaaacttcg agnccttttt naaacctttt 900
ngtggaggtc cggatttacc gttagantcc cc 932

<210> 3703
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3703
cnaatngcta ggctactngt tctttttgca ggatcccatc gattcgaatt cggcacgagc 60
actcttttat attagggact tgagcatctg gagagtgtgg tatctgaggg agttcctgga 120
actaatgtgc agatgccaag ggacaactgt actattgtac ttggaagtac tcatggggtc 180
atattgcatt gtttctttga gtcctaattc tgccaacatg gcctggtgct tgcattaatc 240
agctttctaa tctctgagta acaaggcaca gtaacaagga gcagtaacaa ggcacagggc 300
tggcacctga gagtggaggt acccaggagg cagacaccat aaggcgggaa atggacatat 360
gtacagaatc atggctgcat gtcctgaanc ctggcttaag ccatcaacgg ctgctgggca 420
agggccaaag ccctgttatc cctttcgccc ttnctgatgg ctctgtctct gccttcactg 480
ggtgtgggca agccnnaccc acccnaggct nnagcccttt acccacagtg ttannaaatg 540
caancttcaa taggattgtn cttnaggccc ttncccanaa anccnggatt ttgacagggg 600
gcnatgantt cannnnccng cttttaatgg attggcctat cggttttaaa aataatgacc 660
aatnggggcn ttgngcctgg ccnanaancn ntnancattc nattttcctg ccaatttttg 720
ggtcnaaatn ccngcngntt ttncnctngn nnngttnnaa tgaactgnaa naaaatnnnt 780
ttgnttgng 789

<210> 3704
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 3704
ttcnaatgct tggctactcg ntctttctgc aggnatccca tcgattcgtt caaatctgcc 60
actcccagag cccgtggaac tctggcccaa ggctctctga ctgactcctt cttggcttag 120
cggctgaaga ctgacactgc ccgatcgcnt nagaaacacc gtaaaccatc acggangccg 180
agctntactt ancttтcana gtggaggaan gcnggaatgt nangcctctn aacccaagcc 240
aagccatcac attccctgng acttgnacgt atgcacgtnt gcncctaaat ggcctgaant 300
tactgaataa tnacananga ngtgaaaagg ccctgtcccg ccttaactga tgacntttcc 360
accattggga tttgttcctg ccccacctta acngagngan ttaccctgtg aatttncttc 420
tcctgggtca naanctcccc cactgatcag cttgggancc ccgttcntnn caccatanaa 480
caaacccccc ttgactgaaa ttttcccatt accttcccan atcctataaa angggcccca 540
nccttatntc ccttcgctga ctcttttcng ncttnnggcc catctgnccc tggcgaaata 600
aacanccatg tagttcacat aanaanatcn tttaaaaaac cttnganccc ttttnnaant 660
atantggagg cccntttan gggaaattcc cgnantttgg ataangatac catntgtann 720
anttntgggc caanacccnc aaactntgaa atgnccattt gaanaaaaaa aangccttnt 780
anttttggn cnnaaaattg ngngg 805

<210> 3705
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(868)
<223> n = A,T,C or G

<400> 3705
naaatccctg gctactcgnt ctttttgcag gatcccttcg nttcgaattc ggcacgagcc 60
agcctggcca acatggcaaa acactgtgta cactacaaat agaaaaattg gccgggcatc 120
atggtgtgtg cccgtagtcc cacctactca ggaggctgat gcaggagaat cgcttgagcc 180
tggagggcgg aggttgcagt gagacgatac cgtccactgc acttcancct gggcaacagc 240
aagactncgt cttcaaaaaa aaaaatttta aaaagatttt tcttatggng ggtttcaaaa 300
aatggttgtn ttggcaacgc tnggtgccaa tgggttaccc ctgnntaatc ccnccacttt 360
ttaaaagncc caaaccgggt ggggatcacc ctctanggtc nggaaatttt gtnnnacctt 420
tggggtnnan aattnngngn nnccccccat ttttttcntt ataaaangna ccccncnaaa 480
aaattctatt tccncggaat ttgggtgggc accgttgccc ttggtaaatt cccaancttt 540
ctttgggggа angctttaag gcccaggnaa aaaattggnc ntnaaanctt ctgggggctt 600
caaagccgaa ncanttncca accttcaacc ttccatatnn anttggggac tacnagggng 660
ccncccnanc nttttnctgg ctaanattta ctgantttca ngtagagnan ccanctttnn 720
ttatttttnc ccaaanncnt gctnnnaaat tcntnnctnt tatgnanccn accaatatct 780
nnntncccna aaattctngn naccnttnnt ctnagaaacc tnatngccnc nantannncc 840
tngggttcan nntttccccn tccntttc 868

<210> 3706
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(855)
<223> n = A,T,C or G

<400> 3706
cctagttcna atngctnggc tactngttct ttttgcagga tccctcgatt cgaattcggc 60
acgaggtgaa gccacctttg tgaacagtat agtaatgtct atacttgttc aatagtttag 120
aggaggtagg agggaagaaa ttgcaaaagg taatattact agtgtgttca tacttggaca 180
ttttcagaca ccatttttct atatgttttg tgcattttgt tttgctctgt atatagtata 240
tataatggac aaatagtcct aatttttcaa catctagtct ctagatgtta aagaggttgc 300
cagtgtatga caaaggagta aaattagcct attttgtaca ctttgnggtt gaattcctng 360
gaaaacctgg cttctgnnaa aaacctttтn cttaggaatn tgtttngcca tctcttaacn 420
ttacaccntg ccctgtnctt ntccactgga ttgaaaggcc cnataaagga aggggaggga 480
agggaaattg atttcaaagg ccccaaatgg gccacatttt aggaaagaat accctcacna 540
tggaataanc ccatttggtt aatgtngtgg tgccaaattt ttatttaaac aagtgcctgg 600
ngtaatggtg ggtggggacc aaagtttatt ntggaaaata tcctnagtnc tttcttagaa 660
tantttggg aaaatgcctt ggatggtatt ttaaaaagtg gtaagtagaa atanacccct 720
tttggaaaat aagccttttt aaaaaacctg attgggnaaa ttcctngttt tggaaanttg 780
gaaattggtt ggaaccancc tgggaaggtg ggaaggggaa gaaaatgcca atgggggttt 840
tggccattgg ttnta 855

<210> 3707
<211> 778

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3707
gnnnnttnna aannnccngg nttcnngnng cccttgtttg nccnananaa acncnntgna 60
ancnccggct cgcttctcct cttccattgc gatttgcctt ctttatccag ncttnnggaa 120
tgctgatttn aaatgtnnnt ggcacaaggc aggcgtgaaa acataaagtt aataaaaatc 180
gaatgcataa gctagagcag attatccaca gattcttcca tctccatata gattatcacc 240
attgcctgca cctgttttcc ttctccagcc tatctgatgg aatggtgctt ccatgacatg 300
tggtatttgg aaggctctta gctctgatgt aatcagggtt tgacccatag tcacctgaaa 360
tagnncttct ggnnctcttt ggtctatgaa ctgaagggtc tcagaagccc gtgttatgca 420
aataccttc catccccttc cctctcccct tgcctctatc catgttccct cagcctcagg 480
gtgcttgcag gctaagagga ttgggnctct ggcatcctgg agctgaacag ctcgngtcag 540
gaattcccca ggcccttgag nctctggggt gagttgnagg ggtgtgtagg gngctgggga 600
ttaaganctg ctgagtaggg gcttaccaga ggtatactga aggacctgaa gacagatcat 660
cttcacataa tcagcatgac cataatctgg gatggcactg agcttctttn antcnggagn 720
caaggaatgn gcncaagnaa ngcaaantaa tncctttaa gcccgaggat nagggaan 778

<210> 3708
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3708
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tcgagtgatt aagtctcact aggaataggc ttttctaaat tgntttatct catcctcatt 120
agaacttcac cacatgtggg aaatcatgtg gcaaaactgt ctctcttaaa aaaaaagtca 180
ccaaggaaac ctccttctgc aatttaagaa ataaaatccc agtgacattg atttggatgc 240
tccaaacatg tccataatgg aagagctttt ccaggttttg gtttgggccc cccagaccaa 300
agctttgaca cataatacaa gctctgtaag tctgttttcc tgtctgtaat ttgggattgt 360
catctttgta gggtgtcatg gagattaagt tattcactgt agacaatgcc cctttcatgt 420
aatagattct gtcagtatta gatctttttc tttctcttca agtttcaaac atagattagg 480
caaaatttta atggctattt cacaaaatca gcttgattct tgtttatgac atcaagtgtt 540
gtttttccag gttgtctgtt aaagggctac ttttttttt ctaaaagtgc ttttanaaat 600
tccagtgtta gtatgtatgc atcatttaag ctaagaatga agatntaaag atcacccaac 660
agtttaaagc tggattcttt tancaggtca aaggagaatt gngntttgnc tagctgnctt 720
anccgtgtcg gacttcttgg actcaagtga tcccacctgn ccttaanctc ccaaagtgcc 780
nggaggtt 788

<210> 3709
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(750)
<223> n = A,T,C or G

<400> 3709
gnncngcctt nagttccnca ngcgnactct ttgnacganc ttatgaacag atatggaggc 60
cagagctcat ttgggtaaac ttactcctgc tgagttagca ttttggtgag agaagctccc 120
ctgagctcac ctgtctctct gactgccttg gagtaggtgg cataaccttg tgcacagaga 180
actagaaaag gggcagaacc ccggccttgc agttgtggca ggtttccact gtggtaagct 240
aggttcattc ctcatcaagg aatgtgtagc agattgttca ctgtggagga gttaattata 300
gaatgggtta ttgttgttat tcttactcat gaagttacag attttagcca gtctttgctt 360
ttatactttt gtgaaattta atttctctct atagcacctt ccttttttcgt tttcagttat 420
caaaagtgac tttgacctca taaaagagtt gagaacatct ctcgtgtcac atactgcagg 480
tgcatcagtt acttttgcac agattctagg gggacatttt tctgaatagg aagacaggac 540
aaagttaaca gcttaagggc tcttaattct gtgagttgag gacttaaaaa gtattgnagc 600
atttggttgg atccatgaaa aaatgtattc agtgggcttt taaaatttcc atttgcagaa 660
tttggnctct cangctgttt ggggagctct ttttttacc atttttctc ctttgcacct 720
atttnatggn ggttaaagta aanggtnact 750

<210> 3710
<211> 895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(895)
<223> n = A,T,C or G

<400> 3710
aanagcnnnt cnaatngcta ggttntcgct ctttttgcgg atccctcgat tcgaattcgg 60
cacgagatta ttataagact aacattctga taagccatgg tataattaac attattaaaa 120
tgtttacata taatccttct taaagtatac tcttttaaaa atccattggc ataaccttac 180
ttttagttta gtgatccaga atttccccag agcttaagcc actgcagtaa attaggtacc 240
gtaggatatt cagtcgctac tagccacaag gagtctcctt attttaatgt acctccctca 300
gtactttatt cctgcagagc gcctcagagt gggggagaga aatgagcaat cctggctcan 360
ntggattatt tcagcatttt attttctaaa atctgtagtg tgatcccgaa aatatttaaa 420
attaaaaaaa atacttttac cagaagagag gcctacctaa tcaatgngct ttagagaaac 480
naaactaccc tttaccattc aatttaacaa ccnanaaaaa ggtttacccg aaattttaac 540
aaaacatttt ttctttatct gaattntggg gaggaaaata cttaatgctg acaccgttta 600
ataaatttag gaaaaaggat ccattcccag gaatctttat gggaaaaaat tgggggtttt 660
naaatttcca agccaggttt ggctctttgg aagaacatng ggtaantcct cnttaaatgg 720
taaacttnct taaaagggan naggggtagg aattnggaaa aagggaatct ttgggnattn 780
ttacccntta aattaatggg tcccaggaat nggggtttca agggattntt ncanaaatta 840
aaaattnggg tttttgggtt gggaaaaaaa tggaaatacc ctttttttngg ggggg 895

<210> 3711
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3711

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cgtgactcct gtacaaggga aaataggctt ggagaagatt ggtgtcaaaa ttaatgagaa 120
gagtggaaaa atacctgtaa atgatgtgga acagaccaat gtgccatatg tctatgctgt 180
tggtgatatt ttggaggata agccagagct cactcctgtc gccatacagt caggcaagct 240
gctagctcag agacttttg gggcctcttt agaaaagata tatcatactt tgttctggcc 300
tcttgaatgg acagtagctg gcagagagaa caacacttgt tacgcaaaga taatctgcaa 360
taaattcgac catgatcggg tgataggatt tcatattctt nggaccaaac gccggtgang 420
ttacccaagg atttgcagct gcaatgaaat gtgggctcac aaaacagcta cttgatgaca 480
ccattggaat tcaccccaca tgtggggagg tgttcacgac tttggaaatc acaaagtcgt 540
caggactaga catcactcag aaaggctgct gaggctagcc tgctgctggt taagttctnc 600
ttgncatatt ctcatttctc tcaaagataa gaatgctctc ggatnaaatg agcctgtgct 660
catgacanct gctctggtac ttanggacca ntgcaaggct tncttaccac acttagatga 720
gaaagttnnc aanggaaaaa ggncaccaat ngggcatttt gcctt 765

<210> 3712
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 3712
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gaattcggca cgaggaaagg acccatgatg taaggatgtc ttttttgggg ggtgcttgtg 120
gctccttaac tggctctgga aagagcctac ttcccatagt gaaccctgtg aggtccaatt 180
ctgttcctcc ccttggagct ccaagagaag gtcattgcct tgtagcagca ggtgcccccc 240
caagctgggt tctcactgca ggtgccagcg ggctctcagt aggtatgacc tggatgtgag 300
tggtgaacca ggattgaggc actcagcacc ttcgaccaca cttccactct ccctggggtt 360
caagtcaggc tatggaaaag tgtcaccctg tttgncatat aactggatgg gtngtaaaca 420
gaacgcctct ggcaaaggtn gaccttgaag gcaaaactga gttgagggtt gttaggacgg 480
aaataattac tgctgggcat gcaacacttc ccaaccgttc ttgtgangca agcantgtta 540
ttgncagttt ggcacaangg cacangtgta nnaacaacgt aagtgccctg gggcccgtgc 600
ttacaccacc cactgnggtt tgaacttana atgtgaaccc aaggcccttt ttgaattccc 660
aaantccctc aatcccttca atcctaaaca agcnttgcct gccgggttan ccaaaaaagg 720
gggacctccn ggnaatntng ctcttggcan ntttntttaa anctggatnt attaatgggg 780
aaaaccanan ntanaantnt ttggtnt 807

<210> 3713
<211> 909
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(909)
<223> n = A,T,C or G

<400> 3713
ttgcnaatcg ctaggctctc gttctttttg caggatccct cgattcgttt tttactatgt 60
accataatgt cccattcatg agaacctagc aagtagtttt tctcattagc gaatgctaga 120
attttatttt ttttcacata gtgaaaaggt gaaattggtc tgtcttcctc tttactttag 180
ctgctagtaa ggttgaaaca acgatggtgc ccaaatttaa cagttaggtg acatcttctt 240
ctacgtgtgc taagattacc cagacttcac tttaccctta tttcccactg actttgatcc 300

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cttttacttg nttttattct gnaagtatgt atttttgnca tctttcagna ctctttggna     360
tcnnaataaa attaaattcc cctagncttt aaanangata atngggtnnc ttggnttaaa     420
nattaaaaat naaaagtnat ttngggcttt natataataa ttaagccant aagnnatttt     480
tnggcnaaan tccttttctt gccanaaggg ggcccagaac gggnttaaat atttttaag      540
ggtggtttnc caagggccaa ggtggaatcc tcttgggttg gcaaacttaa ccttcaagcc     600
ttcttggccg gttccgttaa antggangga aaaaggccag gccccttnng gacccaatgg     660
gccatttaaa ggcccaaaat ggggggttng ttggaacttg gggggttttc ccaanttaaa     720
aaaccttttt aatttttnc naaaaaancc aatggggctt accattttgg actttttnng      780
tggttngtaa ttttggcctt acccccccaa aaanaaanaa anannnnnct tcctatattn     840
actnnnanac tttcantnan caaaaaaaaa cntgggccct tttanaactt tngngggncc     900
tntncctan                                                            909
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<210> 3714
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3714

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aaatnnnagc tacttgttct ttttgcagga tccctcgatt cgaattcggc acgaggagcc      60
atggcagaaa atcagtgatg tcattgagga ctctgtagtt gaagattata attcagtgga     120
taaaactacc acagtttctg tgagccagca gccagtctcg gctccagtgc ccatcgctgc     180
ccatgcttct gttgctgggc acctctctac atccaccacc gttagtagca gcggggcaca     240
gaacagcgac agtacaaaga agactcttgt cacactaatt gccaacaaca atgctggcaa     300
tcctttggtc cagcaaggtg gacagccact catcctgacc cagaatccag ccccaggtct     360
gggcacaatg gttactcaac cagtattgag gcctgttcag gtcatgcaga atgccaatca     420
tgtgactagt tcccctgtgg cctcacaacc aatatttatc actacgcagg gatttcctgt     480
aaggaatgtc cggcctgtac aaaatgcaat gaatcaggtt gggattgtgc tgaacgtaca     540
gcaaggccaa acggttagac caattacact agttncagcc ccangtaccc agtttgttaa     600
acccgacagt tggagttnca caagtgttct tccagatgac ccctgtgang ccaggcttca     660
caatgcctgt ganggccacc accaaacacc ttnaccaccg tcattcccgg cactnttacc     720
attcgnaagc aaccgtccca aagtcccagt ct                                   752
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<210> 3715
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(960)
<223> n = A,T,C or G

<400> 3715

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tttcaaatcg ctnggctact cgttcttttt gcaggatccc tcgattcgaa ttcggcacga      60
ggtctcgagt ttgttgtttt ttgtaatccg ttttagagtg aattaaactc agacatccct     120
ggattgtatg ctgtctgtag aatgttgatt ttcaggcacg gggatgtagc tgtagaatgt     180
ggcttggtca ttcttcctga taagaaattg atctcctgaa tggattggcc atttggtaat     240
ttcttagtga aaggctgact cttgaatatg gctggtataa tataaattct taccaacata     300
aaagtaaggg cttatttggg gcttgggtaa aactgtcatg ccttgganga tatatagctt     360
ataaaattgg cttaaccntg nattttatga cctanctnnc ccctgntgcc aacntttnac     420
ttgccaaaaa ncctgggatt cntgtttncc aagggnngac cttattattt gtggaagaaa     480
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aatttggatt nnccaaggtt aacctatttt tcaanggctt cttggctttt tgnaattttt 540
cttcaatttc accatggccn tccttttttat tcctnttttt tnccccttcc caaanggggt 600
tccnggggaa tttancctgg tttcccggga aagnaaanga angggatttn ttccaccant 660
taaggccanc cccaaatttt tttaccccac ctttccaaaa accccanggg aagccttacc 720
ttacctgggn gggtnaaaaa ttanggggtt taaccacccc ccaanatttg ggaaaaatcc 780
tttttggcca aaaaagggtt ccngggttcc taatttcaaa ccggaaacca gngnacttnt 840
ttagccnaaa aaaggaaagg aatccgtttc cccattattt gggaaccgcc ccccatttta 900
aaatttnccc agnggttttc ctttaaatgg gaacctttgc caaaagggaa atatttggcc 960

<210> 3716
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3716
ttnaaanccc nnttncnaat cnncagctac ttgttctttt tgcagggatc ccatcgattc 60
gcaaagcttg atctattaat atattgatca gagttccatg atccttttct aaaatggtgg 120
ctttattttg ccagaataat tctgcagggt gttttttttg ggacggagtc tcactctgtt 180
gcccaggata gaatgcagag tggcacaatc ttggctcact gcagctcttg cctcccagtt 240
tcaggagaat tgtgtgaacc tggaaggcgg aggttgcagt gagccgagat caatcaccac 300
tgcacttcac ctgagcaaca gggcaagact tcatcttaaa aaaatttttt ttggatttat 360
atttactgan aaggtctgtt actaaagggt ttaanatttg gntgggtttn accgctaaat 420
gtttgtanag tctgaatctn tggcctnggn aaagaataat tacangcntt caccaagttg 480
tgaaaccttc tgggttngga tgaaaagaaa ctttcaagct nagaggaana atgttctgaa 540
atatttgggg aagtttggca gactcctttc tcaaggggta tgttcatttg ggccngtgat 600
tctggaaccc cctttgcaga tatcttaagt gtgtcatgaa agtttaccaa gaacattgtg 660
agtanttgca attaccaaag ggaaccaatg ttcatattac tttccattat ccggtctcaa 720
gnattcttnc ngagatnctt taccctgtgt aaagtgaatc ncttcntct 769

<210> 3717
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3717
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gcatgtctca ggaagccatg cttgtcacag aggaatcact ccgaggctaa aggaacatct 120
gggcaatcct acttgtgtac tcattggatt cattcagtga ccttgttatt atccttctag 180
ctaaatgctc tgggtcttaa ttcacgactc caaggttgct cttgatttta aggaacattt 240
tggcagaata gagagaagtt gagcaaatat taacagatgt ccaaaggggc agtgtgattt 300
attatgtcaa gagaatcagt tttatgtcga gggaagaatt ttggtagaaa tcactgtatt 360
ttttggaaaa tatcatattt gggtttttttc attgnataag taatacatgg atacatgctt 420
atataaagaa aaattcataa tatagaaaca taaggaggaa aaatgagtca tttttctccc 480
atagttcact cctttcccct ccctttcagt aaccagtgct acacgggtgt gtctttccag 540
acgttaaaag cagtcataca tatctctaaa gggaaagttt gcgtttgctt gntntttctt 600
cctgnattaa taggatttgg gtatatatat acncaccccg taatatattt tggatctgga 660

tatntaggag catatttctg gggtgcgctt tttaaaattt tatggccaaa tcctacagct 720
tcttcatgtn acttgcttat tngatgtttc cncant 756

<210> 3718
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3718
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cgaaagtgac ttagagagtg actcccagga cgaaagtgag gaggaggagg agggagacgt 120
agaaaaggaa aagaaggcgc aggaagcaga agcgcagagc gaggacgacg acgaggatac 180
agaagaggaa caggggggaag aaaaggaaaa gggagcgcag gagaaaagga gggggaagag 240
agtccgtttt gcagaagatg aagaaaagag tgaaaattcc tcggaggacg gtgacataac 300
ggataagagt ctttgtggaa gtggtgaaaa gtacatccca cctcatgtga ggcaagctga 360
ggagacagtg gacttcaaga aaaaggaaga actanaaagg ctgaanaaac atgtaaaagg 420
tctacttaac aggttgagtg aacccaacat ggcttccatc agtgggcagc tggaggaact 480
gtacatggcc cacagcagaa aggacatgaa tgacaccctg acctccgctc tcatgggtgc 540
ctgcgttcac tgcctcggcc atgcccaaca gactgatgat ggagcatgtt ctcttagtca 600
gcatccttna ccacacagtt tggaatcgag gtcngtgccc actttcttgg aggcattggt 660
gaggaaagtt cgatgccnnt cttttnaata ccggaagcca aagggaaang anttgtnaca 720
acctgttcac cgtcattggc cattttatac aacttcccgt ggtnct 766

<210> 3719
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3719
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agggacaaac catctccaga gccttaatcg catctgtaaa gtccctttta ccatgtaaat 120
taatattcat agtttctgaa gatcaggatc tggatttctt ttggggcaat tattcagcta 180
accacatatt ataatgagga agcacttctt gggaggcatc ataatgcttg ttttttcttt 240
tcctaaatag agtatcactt ttacccaaat ggaataactc gctgggttat tttactgagc 300
tcttgatgct catttctttg gtcttctctg tgatgaatta atgtttctat atggacatca 360
tgcacaattt ctttattcct gaagaatatt ttaaaatgnt gttattttat gttgtagttg 420
gtgtaatacg gtgcccagta tgcccgccaa gaatgcagac agatagacct tgtggataat 480
tattttgtga aagacacatc tgaagctcct agcagttctg atgaaaaatc agaacaggta 540
tgcttctcaa tttttcttta tattcctatc ttgatatcaa actgtaagta taagaaaaac 600
atgtttggat agttaagtca tttaaggtgg ttctgctatg gattcctggt tcaaatagaa 660
agttaaagat agctttctta tatactctca aacttagttn aatgagacta aagctattac 720
ttaaaatgtc aaaatttggg ccagcattgg gggct 755

<210> 3720
<211> 753
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3720
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cacattcaca cttgcaggcg tgcaggtcgg tggtgttaca cacattcaca ctgttgcagg 120
cgtgcaggtc ccgtggtgtt acacacatgc tgttgcaggc gtgcaggtcg gtggtgttac 180
attcacactg ttgcaggtgt gcaggttggt gttacacaca ttcacactgt tgcaggcttg 240
caggtcggtg gtgttacaca cattcacact tgcaggcgtg caggtcagtg gtgttacaca 300
cattcatgct gttgcaggca tgcaggtcgg tagtgttaca cattcatgct gttgcaggcg 360
tgcaggtcgg tggtgttgca cattcatgct gttgcaggca tgcaggtcgg tggtgttaca 420
ttcacgctgt tgcaggagta caggtcagtg gtgttacaca cattcatgct gntgtgcagc 480
tatcacttcc atcttcagag ccctttcatc ttaaaactga agctctccat cacacaagtg 540
acccttcatg tnccttccca gtccctgaaa aacactgttc aaggtttttc ttcctgggac 600
ctcattgtgt ggagtttctc gtgtganttg cagtnacaca cgattggcct ttttttttc 660
gttgttgaga caaatcttat tctgccttca atctggggtg tcanaatgag accccatntn 720
aaaaaaaaaa aaaaaaaaaa aacttgagcc ttt 753

<210> 3721
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 3721
ttccaaatcg cnaggctact cgttcttttt gcagggatcc catcgattcg aattcggcac 60
gaggcaggtc ccctcccaca tctaatccac cactaaggcc tgcttcttaa tagctcttgt 120
tcggctttgg ttgagacagg gttttgctct gccgcctagg ctggagtgca gtggcgtgat 180
cactgcagcc tccaactcct gggatcaagc agtcctcctg ccttggcctt ccaaagtgct 240
gggattacag gcgtgagcca ctgtgcctag cctgaatagc tcttaaatct atccactttt 300
cttcctctgc acacctgaca ccctagtcct gctgccctct tctccacctg gacaacctcg 360
cccaccccca agttggtttc ccctcatcta ctcttgcttc ctttcagtct atcttctgtc 420
ctgaggtcag aataatttgt taaaaatata aatggggtca agaatgagtt ggggatggag 480
ctganctaga gatgggttgg gttggggttg ggacttggat aangcatgga attggggttc 540
aactgatgta aaagntaaga ataggattgg gatgatgatg aaggttgaac tggggatggc 600
ttgggggttg ggggatgggc aanggcttgc ctactnacca naatttgccc tggttgcaca 660
aagttttaac ccacacccaa cctncgntaa nggctggggg aacnttnaag ccantccgaa 720
tagcttaang ggccctgttg ggcntttctt gaanggggta ccagtttttt ttcct 775

<210> 3722
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3722
cngnnnctng ttctttttgc aggatccctc gattcgtttt tttttagaac gtggtcttgt 60
ctctatcctc tggacactgc agcgtacgag taacaacagg tcttgcaggc taaataactt 120
ataaacaaaa tttccttcct gaggagctag gtattccgat gtatcttcaa catagtcctg 180
aagttcatat ggcaatcgtc cttttggctt ctgaaatgca gaaggccatc cagatttcgg 240
ccaactagag gagtctgaag gaccagacaa ttgctcagaa acagaaggct gtttagaatt 300
ttctaaattc attaagggca attctggtac ttttctggaa attggcttta agagctcatc 360
ctgcattttt aaaatctctc caactggatc aaatttttta tatactcgtt tgataggttt 420
ttttaaaaca catgactctt caggactaca agcagtatta gtctggtttc ctacagaagc 480
ctgtcctgag gaagaatttg gactagctgg tctggaactt aagttagaac ccacaacagc 540
tgtctttcca tcactattat ttttacattc tgnatcaatg attaaacact cctcatctgt 600
atcactgctg cagagaactg tatcttcagt ttttgctgct tctgatccaa cagtcttttc 660
ctttgagttg gctanggttt ctagaacatt aggnctttca ccatcagcat gtaatatatc 720
tatagncata tcattttatt agaagttcaa tttcttgaaa t 761

<210> 3723
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3723
ttgcaaannc cctgtttcna atnncnaggc tactcgttct ttttgcaggg atcccatcga 60
ttcgtctaaa ttcatggntt atatttatat atgtccttaa tcctcactca cattggccct 120
acaggtagat tcattgctca ctgtcagttc tcttgctgaa gttttcctat ttttctcttg 180
atttgctgaa attccttctc cagtagttta atcaaaaggg actaaatgaa aaaaaaaata 240
ttcagttgtt gcaagttcaa aaaggttttt agtctttgtg tttgattgac agctttccag 300
catataaaat tcttaggcca cactttcttt ccttgagaac ttcacagatg tcacttctgg 360
ctctagagtt aaatgcccct gtgggaaaaa cttgagctaa cttctatttt ggtacccttt 420
atgaattgat gntttcactt gactgnccaa agtctttttt atttaactgg ttcccccttt 480
cttttatatt ttaagtctag ttacttttca tagaaattac ccttggtatt gacagatttt 540
tgncattttt ccccaaagac atggtgtgcc ctttcagttc gtagatttat cttcttttac 600
ttcaagaaaa ttttcttgga atgatatctt taaatattta tgttccccta tttgagtttt 660
ctattctggg gatatatgat gggtcccttg nagancttnc aaatctgnaa tttctctgna 720
atctctttac accggtcatt tcaatttcct ttgctcactt tcctcatctt ggtctcaggg 780

<210> 3724
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3724
gtgnntnnnn nntttnnncn aaggaactct ttgcnanttn ccctttttgc aggatcccat 60
cgattcgaat tcggcacgag cctagttaaa tcacaacaag ttagtaatnn ataaatgatg 120
tgtcctgttt ctctttagta gaaattatat ttttggctac cagttaagaa acttgtctcc 180
tttgtccctt atgttactat aaactcaaga tgatgagttt tgtggtattt gacttcatag 240
gcaaaatcaa aatttttact ttgttgctat tctgttttat gaaataaact tctgtctatg 300

catttgaact aagtttcagc aaattcaatc taaattgaat aattccagct cccagtttta 360
tcctatgttg ctcataaaac agttccaagt atactgcatt atcttgagat ttgaagatat 420
ggtgcccacg gggattatac taggcaaatg cgttaagcag ctctggccta ggtgttgtgt 480
attttaagag actctatctt aggagagctt aagtgattgg gctgcaggaa gaagacattg 540
taacccagga attaaaaatg gattcagatt gcctgatttt aacactttag tttcaccata 600
ggctaattat gtgacattgg gcaagagaca taattcttct gtccttagtt ctacatttgg 660
aaaatagaga tgatttggga acttattaat aagatttttg tgagagataa ataaacaaat 720
nctttgnaa aaaaaaaaaa aaaaactcga gccttagaac tntgnggg 768

<210> 3725
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 3725
gtncnatnng tgntantnng cgncttggcc taaananata ggntngggcg tgattctgga 60
acagagtgca caccaggaga atctaagaat ttgggtcaaa aagaaaatgg caattacatc 120
atgtgctcta ctatattttc ctgtgtattc aaaagtatct ttttgaaaat ggaagggtag 180
atgacatttt ctccgatctt tattatgttc ggttcacgga gtggctacat gaagttctga 240
aggatgttca gccccgggtc actccacttg gctatgtctt gcccagccac gtgactgagg 300
agatgctatg ggagtgcaag cagcttgggg ctcactcccc ctccaccttg ctgaccaccc 360
tcatgttctt taataccaag taagtgttct agaggctcca ctgctggcat ctgtccagtg 420
aagagtgtgg aagctatcca agaggccttc tgaattcctc tgacatatat ttgagaaagg 480
gcttggactg tgaaaagaaa tgtggcccct ttccatcttc aagagagatg gaattaatga 540
tggatggacc ctggagggaa tctccccagc ccgactttca ctgggctgac agactttgct 600
gaccacaggg gaacnatgtt cntttctttt cttcatgatc agacntaaac ctagcntcnt 660
taatggaaga aaaatgaagg gggaacttca attatgantt attcaacgac caantttnta 720
ttacnccccc ccttttatga ccaagntgac catttnnnat gttanngtta aaaaaccttt 780
cccttgccct tnt 793

<210> 3726
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3726
gnnnnttnnn nnnnnnnnnt tttnannata cagctcttgt tctttttgca ggatcccatc 60
gattcgctga caagtctgaa atacatattg gagcctggta gactgaaaac tcaagcaaga 120
gttgatgtta aagtcttcag tctgaaattt gtagggcagg agattaggct ggaaactcag 180
gcagaatttc tgtgttacaa tcttgaggca taattcttct ccaaaaaaat ctccattttt 240
ttctcttaaa gccttggatg agccttggat gattggatga ggactaccca cattatctag 300
ggtaatctcc tttgcttaaa gtaaactcac tgtgttaatc acatcaacaa aataccttca 360
cagctacatg tagtgtttga ccaaacaact aggcaccata gcctagccac ataaaattac 420
tatcattata ctttttctta tcacatactt ctaccttgga agggatattt cccagttggt 480
atagctacaa aacagaggca gatcatttag cctgcatttg atttgtagtg aaaaataagc 540
ctttggtgtg tttaaccact gaaatgttgc ggtttattag tatagcacaa cttatcctat 600

actggccaac atagatgctt tcggttgcaa gtaacagatc cccttacagt ttacaaaaaa 660
aaaaaaaaaa actcgagcct tagactatag nagtcgattc gtagatccag acatgataga 720
tcatgatgag tttggacaac cacacttgat gcagtgaaaa 760

<210> 3727
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 3727
aaacgcttgg nnnnncnnnn ncctttttng gatacagntt ctangacaan agctacttgt 60
tctttttgca ggatcccatc gattcgaatt cggcacgaga ctttttaac gaatgggggga 120
agggatctat gagaaaggtg gtatctaatt tttttatgga ccataaaggt ttaaaagaaa 180
ataggggcac aggctgttga ggtttttatg ttgttataga ccttttttaaa ttatgttaga 240
gatgtntata ggnatttaaa ggtcactggg agcgtttctg attcccggcc acactttgca 300
tttcaacact cagcccggaa agatgctcgt tcggntgttg gacctctttc actccctgcg 360
tgtaagaagg tgaatcacgt gggaaaaagt gatccttagc aacgtgccag gacacttcct 420
gtgtgcctgc agttgtcang gaccatttgg gatcccgaat ctcattctct aaaactgctt 480
tcttgaaaca tgttacttcc ttagtataat caatgtatac tcccttactg gcctgaaacg 540
ttgtatagct acttattcag atactgaaga ccaacggact gaanaaaaga acaaacatta 600
gctattttat gctgcaagaa ccaggacaca caattcgcca atcatcccac catataacct 660
tcgattggng cttctcaact ccaccccata atttcttcca gagaccatct atcanctttt 720
ccccaaagaa gaaacaaaac cngttgcacc ttaaaccatg gatatttttt cctcangggc 780

<210> 3728
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 3728
tnggcnnnnn gnnngnnnnt ttnnntatac agtacngaag ctctttgnaa tnncncttttt 60
tgcaggatcc catcgattcg aattcggcac gagatatgct gaggtcctgg cctccagtac 120
nttagaatgt gactgtattt ggagatggag atacagcctt caaagaggtg agtaagttaa 180
actgaggttg ttaagatggg cccgcaacca atctcaccgg catccttaga agaaaaggag 240
ttggagacac agagagagag gctagacaca ggcacacgtg aagggacggt caggggaagc 300
ggcagcgaga gggtgctgtc tacagccaca gagaggcccc tgaggagacc aacgctgccg 360
gcaccatgat actggactga cttaccgnct ccagaactgt cgaaaagaca tttctgttgn 420
ttaacaaaat agcagtctgt agtacttcgt tctggcagcc caagcagact aatgtatagg 480
gcattagatt gggcgtaagt aaaatataaa ggaacttaag tattgaatag tgcaggtgct 540
gtgaggaggg atacattgng ttntgntatt ggtcatacag agctagctgn tacctgaggc 600
ttcacaatgt aggntctact ctaatgctgc tgcttaaaaa accccaggcc gggcatgggg 660
tggctcacgc ctgtaatccc agcactttag gaagccgang cgggcggatc acgaggtcan 720
ganggcnaga tcaacctggc caacatggng aaaccctgtc tntactnaaa anac 774

<210> 3729
<211> 779

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3729
taatgcttgg nnnnnnnnnn gnnnttnaaa cnnagtttca aatcgctngg ctatcgcctt 60
tctgcagatc ccatcgattc gcgaggccag ttccaggccc acttttgcc ctgtgagccc 120
cctgcattnc tggnttntcc ttttncaggc tgctnctcng tggagcttct ctatttnacn 180
tctactactg tatccatgnc tntagnnggn cctntcagtg atgtngctta tntccccaat 240
gacactgatg ggagctnctt aagaacangc tgtntacgga caaggatgtg aagtggtaca 300
agggaaaagt angccgntta ggacctgtgg gtgtgtcatg actgtgcttg tatctcttgn 360
tagctttgtg gccttaggtt caatgctgac cctttctgag gctcaagttt ccttatcttt 420
aaaataggta ttaaaggaag taatccggtc catacctgag cctgggtatg ccctcctccc 480
ggacgttcct gttttctgat cgtcttcagc acagacatga gtaaagtgac aatgaccagt 540
cctgtgactt actgagggca aggtgttcca attcagattg tatactgata attacacagg 600
gaaataagag aaganacaag ttanaagcct gnagattata gatgtttttg aagaatacat 660
tnttttgcat taataaatgt gaccagtttt taaaaagttt tcagtattag aggaaatagc 720
caccccata ctacttctac tactgcaatt actatttagc aatttttatt ntttctttn 779

<210> 3730
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3730
gnntttnnat ncccncnttg caaancntng gctacttgtt ctttttgcag gacccatcga 60
ttcgaattcg gcacgagccg gacagagagc gcaggagccg cggtaccccg gcttcgtgct 120
ggggctggat gtgnggcagt tctgtgatcc gctgccacgt ctatgaccgg gcggcgcngg 180
gtctgcgggt tccagcgtgc anaaggtaga aaatctttat cctcaaattg gctgggtaga 240
aattgatcct gatgttcttt ggattcaatt tgttgccgta ataaaagaag cagtcaaagc 300
tgcaggaata cagatgaatc aaattgttgg tcttggcatt tcaacacaga gagcaacttt 360
tattacgtgg aacaagaaaa caggaaatca ttttcacaac tttataagtt ggcaagactt 420
aagagctgtt gaacttgtaa aatcttggaa taattctctt cttatgaagt agagacaggg 480
tttcatcatg ttggtcaggt tggtcttgaa ctcctagcct cacgtgatcc gccacctcag 540
cctccaaaat gctggtatta caggttcatg catccaggag catatgcaag atactgaaca 600
gttccgcact acaaagatct cttgngttgg tcttctgtaa ctatatctac cactctncta 660
tacacctcct accctctctc attcctagct cctggcaacc actaatctgt cctccattta 720
aaaaatgttc taatttgaaa aatgtatatt catagga 757

<210> 3731
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)

<223> n = A,T,C or G

<400> 3731
ggnnnttnna ttccccccct ttgcaaatcn ataggctact ngttcttttt gcaggaatcc 60
catcgattcg tgtacatgtt ccagtgggat gggaagcagc agagaccaac agagtctgaa 120
gaagcaagct tctgagttat gaaagcctgg gttcaggaga ctaacctata tgtaggttcc 180
taggaaagtc cagttaaagg gcctactttg ccactgctgc ctccttctta atgctgaacc 240
tcatctccca caaggggca gtctcagcag gtgtcagctg agccatgtgt catctgtcca 300
ggctaactgc ccacacatcc ttctgcaaag ggtacctctt ggttatcagt gctcactgat 360
ccctatataa tcagactcta atccctgtaa aaagattact tggtgctagc caagctagca 420
cctttgggtc ttcccaaaca tacaccacta atccagactc taataacttc atttccttta 480
aattacaaga tcagagctga aataggcctt agaaagctag tctgggctgg gcgcaatggc 540
tcaagggagg cggaggttgc agtgagccaa agactgcgcc actgcactcc agcctgggca 600
acagagcang acttcatctt gcaaaaaaat aaattanatn aattaaaaat ntgaacctat 660
atgggattta acctcttctt ctcaattaaa agttatttta aaaaaaatgg caaaaaaana 720
nnanngnnaa naaaaaaaaa cttcngaccc ttttnaaact nttangnggg gtccnnattt 780
accggtagaa tccnagnn 798

<210> 3732
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3732
ggnnnttttna annccntnnt tgcaaatcgc naggctactc gttctttntg caggatccca 60
tcgattcgaa ttcggcacga gnaatcaata tttttcaata gaagtattag aggttttttt 120
tattgatata aaaataacaa ttacagatcc tgatatatag aagttattca aaattataca 180
gttttcaaaa aatcaagaca agtaggccca atacaaacta ctgaatcatc ttctaatttc 240
cctctaaaat atttatagaa atatgtaagt agaaaaacat tcatcctttc ctcgtctaat 300
tatgatcctg ccatattcca ggcacaagag aaagctctgg ggcttgagtc ttaatagggc 360
tgatagtcca accaggggac agggtatcat aaagagataa ttcaaaactt taagattgga 420
gggtaggtga tggtagaaaa ttctgcggca aacatttgtt gatgctcatc atttgttgat 480
gtcatcaaag atcaccaggg cataattata atcaaaatta gttttattga tgcttgctgc 540
agcaagagag actgcacacc actggggtct atgggtgctt ctcagtggga aggtgtaagg 600
aggggcttgc taagaatttg agcacatgta gctaatttta aggagggctc aagtgagcca 660
agggtttctt ctggattgag tgctgtccag aaagtggatt gagtgctgca gaaagtggga 720
gtgattttgc actgggganc ttaattttta tgttgtgggt gggang 766

<210> 3733
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 3733
aaatcnncag ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggga 60
aaactgctaa attaaaatac tacattttac ggaaactgtg gagctgcctc cttgatagaa 120

tgttaggtct gtttttgttg tcttctgcct atgtctcttg acttgtagtt tcttttgttt 180
caaatcactc tgccctcgta tatactttgg ttagactact tttggtgaag cactctccaa 240
tagaagaaca taatgtggtg tcaattgtgt agggatcgcc caagcgttgt ctagcatttc 300
tgctccccag cagaagccat tttatccagc cagagttgtc cttcacagtt ctagcatagt 360
ctaaactcat tttctcattg ttcatattct ttctctccca cccactctgt cttccctggc 420
aattcaagtt aaattccatc tctcttcttt gagttgctcc cctgaagtaa gatttctgtt 480
tcttctggca ttttacctct aaatttatca ataacatgtt tattctgctg ttcttaatgt 540
cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg agtgatttta atcttctctt gaatttagaa 600
gatgagaatt tagtctttct ccttttcccca ttcctacatt actcctaaat tgaatcttta 660
atataaaatc atttatttta gtttccagtg tcatcataat tttacctttt ttctactcag 720
gactataatt cccagca 737

<210> 3734
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3734
aaatcnnnag gctactngtt ctttttgcag gatcccatcg attcgaattc ggcacgaggg 60
tnaatnntng tttganatca tgcccngatn ngacntcaag cnatnaagga actgcctnaa 120
tttgccactg gagaaaatct tcctcgagtg gcagatntac taacncagct tttgcnnacn 180
ggtaagggat attatnnnta ccttttnctc taaatatnta tcntctttct naaatgttga 240
ctctggattt aggttnnaaa tggggtgcag ganagctgga ggncctncct ctgatngaga 300
ntaaatcccc tactntcatt cagacgntaa agngaaatga ttnctggtta tctaatncct 360
ggngntgttt tggatntaat accctcntga aggngnaatg actanattct tntgggcatn 420
tnagatgtnt nntaattntt cncccnatnn nctgnagtat cataatcgna gcatcttaat 480
gaaagttttc aggcatgcca gatcnggatc tcaancttac aangaacacg tatctntgtg 540
ggcttgaggg aatggcttag ntgataagca tcctgtcaat gtaacctnga taaactnagt 600
agnntnacgt tgnnaaactg angcanntga tattcaaatn agnaacntat tcattgtgcc 660
nctntttctt tactccanat gactcttgca naattgaacc nagtggacaa cgccctatta 720
agggtgtccc ananggatgc caa 743

<210> 3735
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3735
ananctacan gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggc 60
tcagtgttgt aattccctat tctagcactc tcaaaagtac cccatctgtt acacatgcag 120
aaactgcagc agcatctgaa atgtccactt cttgattcat tctgaactcc cttaagccca 180
gtgtttgtta gttctcgttc aagtctagga actctgccga gtaacaggta tctcaatttt 240
gccatccttt ctttctgcat agacaggagt gttcttaaat cttctcctgt aaagcaagtc 300
atctctgatt tccctgagga tcattgctcc cgtatactgt tgttggggtg agccttctgg 360
tagaggggaa gagaatttgg tactagggtt gatagtcaag ttactaaggt tctttatcaa 420
catctcagag cagaagtttt gagaggcccc tgaatcgtcc tgggaatttt cttcagtgag 480

cattttgaa gactgggacc agggttggat taaacttttg tgatgggtcc attgtgtctc 540
aacacaacac tgagcttctc ctggatcttt gaaacccagc agaaactgtt gctggactct 600
caaattgcca caaggtagac cagaaagagc ctgaaaaccc gaactccaac catcttttc 660
tttccttttt aatgcagaca tggtgttgct atgttgcagt gagcccgaga tcgcaccact 720
acactccacc tggcgacaga gcg 743

<210> 3736
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3736
aaatcgctng gctactcgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
aagcaatgtg ggaaagcctt cagatctgcc tcaatccttc aaatgcatgc tgggactcac 120
cctgaagaga agccctacga gtgtaagcaa tgtgggaaag ccttcagatc tgccccacac 180
cttcgaatcc atggtagaac tcacactgga gagaaaccct atgagtgtaa ggaatgtggg 240
aaagccttca gatctgccaa gaaccttcga attcatgaaa ggacacaaac acacgtaaga 300
atgcactctg tagaaagacc ttataaatgt aagatatgtg ggaaaggctt ttattctgcc 360
aagtcatttc aaatacatga aaaatcttac actggagaga aaccctatga gtgtaagcaa 420
tgtgggaaag cctttatttc tttcacttct tttcgataac atgaaaggac tcacactgga 480
gagaaaccct atgagtgtaa gcaatgtgga aaaaccttca gatctacctc acaccttcga 540
aaacatggta ggactcacac tggatagaaa ccaaagcagg tgaatcacct gaggtcagga 600
gttcaagact ggcctgatca atatgatgaa acccctgtct cttctaaaac tacaaaaatt 660
tggccaggcg tggtggcctg gcttctgnaa tcctagctag ttgggaaggc tggcacagga 720
gaatcgcttg gatcttgggg ggcanagg 748

<210> 3737
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 3737
ggnntttcaa anccgnnttc aaancnagct cttgttcttt ttgcaggatc cctcgattcg 60
aattcggcac gaggtttttt aaagaacttg ataaatttac cttaaaattt aaataaagta 120
tactgaataa ctaagtcaac ttagaaaaaa aaaagtgtta tctaagacaa gttacaaagc 180
catcaccaaa gcccatgatc cggcagacga ctacaagcat agggtcagat ccatctataa 240
atgagagcct gacatacttc atctatagca aacatgggag acaaatcagt ggtaaaatga 300
tacagtgttt gggaagtgtt atttgaaaga tgggcttatt taatgtatac agatgaactc 360
aattcctctg taatagaaac ttgttctcca gagagattat agatctaaat gcaatgaaga 420
aaataccact ataaatttag tactctttat tgtaattatc cccaatggtt atttttactt 480
tctcacttct tagatgattt tccaagtttg tctagtatct gagttaaaac aaaatttta 540
actttcttat aaaacatagc gtgcccccat tttagttcat tttctacata gaaataaata 600
aaacacttag ataacagttc agaaatagtt aattaaatat atcccagatt ccccacgatc 660
tggaaaaatt atatcttcaa aatacttctg tctggtggat atgtgtcttc taaaaaaaaa 720
aannnnnnna aaaaaaaaaa cttcggncct ntagaacttt agggngtc 768

<210> 3738
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3738
gnnnnnnnnn tttnnnnntt tgaanccctt tgctctngnt ctttttgcag gatcccatcg 60
attcgtgacg agcgactgta gacgttgcca gcatgtattg atcaggagca gcctgtgagt 120
caagactgac aacagatcaa taaatggctt ttaaaaagca aaacccctca agctgtttat 180
ctaggaagcc tgacaaaccc tgcccgcagt ggtgtggccc catgtgtccc cagggcctgg 240
ggcccacctc tgccccagaa gtcctcttag tgtctgtaga caggtcccat ttccaccagg 300
tcaaccaggg ctgtggcagt ggacctggat ggcaggcaga gcagaggacc gctgttctat 360
ttgttgaagc aacgaggcac agtgactgtt ctagcacagc tggctgtgag aaatggcgat 420
gatggatcca ctttagatcc gaagtcttag caaactcagg cctcttttcc acagagaatg 480
ttgtgaagac ctgggaatga gctgttgatg tgcatttta ggatgacagc ataatggaga 540
aaattggaag tagcatatgc caaagtatga agtgttcaca cagctccctt gggttggtga 600
tttatgggaa gctttttct cctttatact tttatctact ttctaaatct gtcaatatgc 660
ttgngtcttc tatgaacaag aaagaaaagt ttaaaaaaaa annnnnnnnn nnnnnnnnnn 720
naaaaaaact ngagccttta aactntnggg gncgnttacc taaatccann 770

<210> 3739
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 3739
ggnnnnnnnn nnttngggca nanggaaacc cntangcaan cnactganag aacccttggg 60
aaggacccca ncgaancgaa ngcggcacga gacanacagn nnannantta cacaccgggg 120
ntgggngang aataangagg annnaangag cccnctnccg aggnngcccn aagncngcag 180
aagacaaaga nccnggnncc aggccangaa aggactgaag naaananngn aaanaagnac 240
agcngaccct ngaacaacan ggaggnnagg ggnncagnng aaaancngca tgnaagngga 300
ccngngcagn ccaaaccnga gngnaacngc ngaatnaaag gggcnnccnn cngcncanag 360
anagnaccca natnnacaaa catgctagag aaaagcaacn ggggnaaaac nngcccccac 420
tagagaaang gacaggaggg annaagncac nnggaaagan aganagcaga actaagcnng 480
gnaaaagccc angaaaggnn gganacnana aagnagccaa aacnacncna gcaaagcann 540
nnaaggcaga aaacnggggc aanagnaacn aacncngggn gccaccnaaa aannncanaa 600
cagggnaaga ancacannnn nnacancang caaaccancc nnacagaggg agcnnaccnn 660
gggaagagcn nnnaaanggn acaggncann nnagaagagn aanaccnnca ggcaaaangg 720
gacccaaggg acanagaaan acaaannngg nnnnncacac acngaaaaaa anngaagcaa 780
aac 783

<210> 3740
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3740
ttatanatac agctcttgtt ctttttgcag gatcccatcg attcgtttta acagtgtgcc 60
tttggggagg gacccatgtc catggcttcg ttgagggcca tccatatgcc agctgggggc 120
cagcccacag tggccatatt ggctgcagca ggaatggtgc ccacctcggc gaattgaagg 180
gctaagagtc ccagatagct aggccagagc tggaagcaga cagtaagggg aagagctgct 240
cccacaggag agggagagat tccagctcac tgcgcagcct gggaggaggc gtggatcctg 300
gcacgctgag cctcaggcac cagcctccct gtgctcgaca gcaaagtctt gactccttcc 360
tgctgagcac tgtgctacct tcactgctcc aaagccagac taacagctct ccaagccctt 420
ggggtgactc ggcttccagg agctgttgga gaaatgagga tgtctgtccc tgtctgcctg 480
ggcaggccag attcctcccc agcagccggg tctctccaga ccctgattcg gtgcctttct 540
gtttaccagc tacttcaatc ccaaagtttg aatctgcaga taccttactc ccagccactt 600
tgccttctta ctgtgttgtg tgtttttcct ggtgcttcaa gancgtgtgc anggcaaagt 660
gcccgtcact gggaactgca ccagatgctc agacttggtt gncttatgtt taccaataaa 720
taaaagtaga ctttttctaa aaaaaaaaaa aaaaaa 756

<210> 3741
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 3741
tnaatataca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgagactc 60
tctctacaac tgacagagta aatagacaaa aaatgtatgg gggatatgga atattttatc 120
aacacaagta aaaagcttga tctaacaggt gggtgggcca ttctancnac cannngaccn 180
gnatntaaan cnnatnangn tncatccana ttcattgttg cntntnnnnt antgatntct 240
gtntnanttn tcanntntac antnnancnn tnntnnnacn naacagncac tannaggtcn 300
annnagctnn aattnannnc tntnannccn tnncntcnnt nattntnnnt nnntntnncn 360
anactnttnc antatnatan ngnatcntnt actnttnntn nnnnantanc nnnnnnanngn 420
nttntntnta ctanngnncc tanttnannn atcnnnntnt ntacatctnt nctactnatn 480
atnnncannt natatatnnt nntnnnatna aaggantnnt ntncnnantn cntnnnnana 540
natnctnatn nnccntannn nntnannttn nnnaananna tnnnancnnt tannnnnnnn 600
nnnnannntt annnnnnnnt nnntnttnnn ntnnntnnnn nnnnnnnaan nggnanannn 660
nnttnnnnca attnntnnnn annnnnnnnn ttannnnnnn antannnnat nntnnnnnna 720
ntnannaant ttnannttna n 741

<210> 3742
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3742

atacagctct tgttcttttt gcaggatccc atcgattcga attcggcacg aggaccacct 60
acggaaaact gaggcccaca taagctcgat tggttgtacc tccaacagat atttattaag 120
cacctactaa atactgagcc cattgcaagc accagggaag cctctgtgaa cagcacaagg 180
tccctgctct ggagattctg cttcagtggt ggagacagaa aataaacagt ttcccgtcac 240
caattttcct tggaattgga cagatggcag ccaccataat gatactatat gtgtccaagc 300
taaacaaaat cattcacttc cctgattttg ataagaaaat tcctgtaaag ctgtttcctc 360
tgcctctcct ctacgttgga aaccacataa gtggattatc aagcacaagt aaattaagcc 420
taccgatgtt caccgtgctc aggaaattca ccattccact taccttactt ctggaaacca 480
tcatacttgg gaagcagtat tcactcaaca tcatcctcag tgnctttgcc attattctcg 540
gggctttcat agcagctggg tctgaccttg cttttaactt agaangctat atttttggat 600
tcctgaatga tatcttcaca gcagcaaatg gagtttatac caaacagaaa atggccccaa 660
ggactaggga aatacgggta cttttctaca atgnctgctt catgaatatc caactcttat 720
tantagngct tcactggaga actgc 745

<210> 3743
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3743
tnagatcagc tcttgttctt tttgcaggat ccctcgattc ggtacaactc ttaaagcttt 60
ctacatttta catatacagt catctctcag catcccgagg aagattggtt ccaggatggg 120
ctcaaggtcc tgatataaaa ttgcgtagta tttgtatata acctatgtac atcttctcgt 180
attctttaat ctctagatta cttataatac ctgatactat gtagatgcta tgtaaataat 240
tgttatactg tattattttc aaattgtttt attgctattt ttattgcttt tccctgaaat 300
atttttaatc cacagtaggc ggatgcagaa cctctttata cggagggtcg actgtgtagg 360
agtgagctag tttcagttaa agcagcggtg gttggtactc atctctcacc tgcccccacg 420
tagtgtagct agggcatcag ggagtactga tctctggcat catctgggat caacaggatt 480
ttcctgcctc acaggcctgt gagcacatta gaaatacacc tgctcagctc aagtcaaagt 540
gagaagcttt tgaatggagt gataaccgag taggcagtat ctaaataaag atgattggtt 600
caagtctcag tggacaaatg tgtaccgttc tattactgnt gactgtgact ttgaagtata 660
tggngttcat taagcaaatc caatctgatc gtatgaaaag agcaccccaa aaaccaaaat 720
gaaaccattt atcaggactt ttgnagctat gaaa 754

<210> 3744
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3744
tnagatcagc tcttgttctt tttgcaggat cccatcgatt cgaattcggc acgagctttc 60
tctggcagtg attcctgaag ggaaaatcat gaacaacacc tactaccagg aatgcctctt 120
ctacctgcac aactatagca ccaacctggc catcatcagc ttctacgtga ggcacagctg 180
cctgcgggaa gctcttctgc accttctcaa caaggtggga catggacaca gctcaaaaag 240
gcagtgcctg ccttactcct ctggcttgga ccactcagcc ttaagcggga caataacccc 300
ctgacactta accctgtgtt gagctatggg gccatctcta gcagagtcaa gtcaaaacag 360

gggactctgc acaactgtta ttcagtgagt gtgaaaagtc ttagcctaga tcccaaatca 420
ctgccctcac cagcaaaggc atgtttcatt ccttctgcca aaacatgcag cagaatcgga 480
tagtggttaa gagcatgtct ctggaatgag atgctcagtg tgagtcttgt gtggccttgg 540
gcatattgct tagagtctgc ttccacgcgc ctccctacct ggcctgggat ggtgtccagc 600
ttctgaccca nctgctggtc cattcagagt tgttactaca agggccagga agtaaccatg 660
gtgcaaatcc tatagttgaa ccccaaatag atgatgaaag aagaaaaann nnnaaaaaaa 720
aactcgagcc tntaaaacta tagtgagtcg tt 752

<210> 3745
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 3745
gnnnnnnnnn ttngnnntnt gaagccntta ntganttccc ttttttgcag gatcccatcg 60
attcgcagca tccacatgac aggcggcgcc gaagggatcc tgcccctgac tttcatnagc 120
tgttgaacca tctggaattc acaggcctgt catgagagac acgatgagaa gtccttaaag 180
gtagatcact gattcacagg ggagcaggcg gaggcaaggg tgagtcagtg cttggaactc 240
agtcatccag atttggctct ggaaacttct gaagctgtag cctttgggga tccctgactg 300
cgagtacagg aagccaacgc tatgtggtct tctggaaact cattatcttt ttcactggtg 360
ctatctggga aaaacagatg aaaacctgaa ggtgttctgt atgtgtgctt tcaaaagcaa 420
ggatctggcc ggacgcagtg gctcaggcct gtaatcccag cactttggga ggccgaggca 480
ggaggatcac ctgaggtcag gagtttgaga ccagcttggc caacatggcg aaaccatctc 540
tactaaaagt caaaaattat ctgggtgtgg tggtgggcac ctgtaatcac agctactcaa 600
gtagctgagg cagaagaatc agttgaaccc aggaggcana ggttgcantg agcagagatc 660
acaccactgn acttcaacct gggtgacaag aatgaaactc cgtctcaaaa aaaaaaaaaa 720
aaaaactcga cctttaaact atagtgagtc gtattacgta natccagann 770

<210> 3746
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 3746
gnnnnttnnn nnnnncnnnt ttcnaatagn nagctacttg ttctttttgc agggatccca 60
tcgattcgaa ttcggcacga ggctatgtgt tctgactttg ttgattcaaa taagtaagct 120
aaatcaattt aagccattaa taggtttata aagttatttg ctatgtgttg ttcttacatc 180
attgattcat gtaagtagac ttgtgtgaca gctaattctt aaaaaattat gaagatgtta 240
gacttctttt gatatatata tgttgattgt atgaacagat tgacatcaat atacttattc 300
attataaaag atttgagtgg gaactcacca aatcccacac caaaaaaatt taaaatttta 360
ccatagtaaa aaaaactaaa aagcaagatg aaattataca tagttcttgg tgtagtattt 420
ttaattttta ttatttattt ttatagaaat ggggtctcac cattttgcca ggctgttctc 480
aaactcctgg cctcaggtga tccgcctgcc tcgacctccc aaagagccag gattataggc 540
atgagctacc atgcccggct agtgtagtat ttttaaattt tacttaatgc tgagccattt 600
tcaaataacc tcatcacatt gattatgacc tcatgcaaga accatctggt ctatctttca 660
gtgtagttgt ctttaatatc ttagaactat tgcattctgn ccttttttgg gaatggttta 720

tgcttttaca gtcttaacca ttgcttctta atatcacttt ccgcggnaca actggg 776

<210> 3747
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(960)
<223> n = A,T,C or G

<400> 3747
tannnnncnn nnnnnnnnnn nnnnnnnnan nnncnnnnnc nnacnnnnag gnncnnnnnt 60
cnnnnnnnnn nnnnnnnnnn nnnnnntcnn nnnntnnnnn nnangtannt nnnntntnnn 120
nnnnnannan ngngngnnan tttnccaaaa tacccnagtt ttctaaaatn ccttgggcnn 180
aatccgcatc tcgcngcaag gcgacccntc gnattccgna attcggcnac gaggggcaag 240
gagtatngan tttcattcag gaatttttntt cangcaattt natcaatctt attcttgaat 300
tntattcacc aataatggct cgccatngan gagtntaaag tnaggaaaca nngctatcct 360
tattcacatt ttgcaaagtt cctccatggg ctactatgat gantaatcaa ngncaangng 420
gaggtaanaa gtgaactngg ganactngtt gaccaccnca ctcaatcccn cngatantgg 480
caccatntac tnanggnnnn acnnatcnnn atnacattaa gaggatgntt acncctgata 540
tgttgactgg cttgttggaa ggacctatag ctggaacatg cttccattgc caagaaagga 600
gctacaggtn aagagacact agntnaccnt atgatngccg gnttccagcc tggcataatg 660
gnganttgcn nntgacntna atagcatntc ntgcnacaat ngaactnnca agatagaana 720
agcaanngca agggaatcnt tgcntgcttt aacccttact catcnaaang gcctctcnta 780
ctncaaagaa tttacanatc cngcttacca tttatcaacn ccaatgctgc ttaccgtngg 840
tnaaccaccc aannttgnct ttaaaataac cacaangtnt ncnaaaangc cnaaactcnn 900
ancctntaga actataagtn nntcaagatc cctatnatcc atncttgata aatanacgnn 960

<210> 3748
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 3748
ttnnnaatnn ncantctctt gttctttttg cagggatccc atcgattcga attcggcacg 60
aggtgacaca gagacagaga aacctccccc acccagggaa gcagctctgc agagttggca 120
ggatcagggg ctagtctgaa cccctagcac agaacactca cctcacggaa gagtggccag 180
aatgttttcc acataggtcc tggtcctcac ttctcctcac tgagcagggc tgcccaacgt 240
gggacttctg cacaaccatc ctgcccctgc ctgaccactt caatcagagg cagcctggca 300
gttaaaggaa cacccacaca cagaggtgaa aaagaaccaa ttcaagaact ccagcaacac 360
aaatgaccag aatgtcttat gtccttcaaa tgattacact acttctccaa caaggttctt 420
aatcaagttg agttggctaa aatgacagaa atagaattca gaatatggat aggaacacag 480
atgaccaaga ttcaggagaa tggcaaaacc caatccaagg aaactaagaa taataataaa 540
atgatacaga agcagaaaga caaaatagcc tatataaaaa ataatataac tgatctgata 600
gagatgaaaa accaagctga ggaaagaatc ttggaactgg aagactggct ctgtgaaata 660
agacaggaaa aaaaaaaaaa gaannnnnna aaaaaaaaac tcgagccttt agaactatag 720
tgagtcgtat acgtagatcc agacatgata agatcctt 758

<210> 3749

<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 3749
gnnnttnnnn nngnnnnttt aaaatacagc tcttgttctt tttgcaggat cccatcgatt 60
cgctgtagtc ctattttgcc atatgacatg attgaaatca acacctctta gaaatagttt 120
tgctgcctca taattgatta ccatcatgat aacctgtagt cagtgtgaaa tagagataaa 180
aattaatgta cttagttaaa tgcatatgaa ggtctaatct tgttccagag ttactcttac 240
tggattattt ttagattttt attaacatta ctggtctcta actttactca gtctggataa 300
gaaaaagaat accatgcaat tgttaactat ttgatgttta ctagattaac tattaatata 360
ttgttgtggt ccatatttaa gagttacttt gttactagag atttcattat agtggtgttt 420
aatatagttt tgggtatttt taactaaaaa tcattgttat ccttcaactg tagattctac 480
tatgaaatga ggaaaaatca gcaatagaat taattgggtt caaagtatat aaataatgat 540
gtgggaaagg gaagtcagag ggtatctctg gaagaactga tttatctgaa ggtaatactg 600
agtgaaagaa cctaagattg tagacaaagc atgctttatg caattttgct ggtcatagta 660
gtagtagagg ctctataaat gtgttgggtg tttttggttt taaagagaca gtgtctcgct 720
atattgcccc aggagtttaa agctgcagtg ccctgtggtt gcacctgtga a 771

<210> 3750
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3750
tgnnngtttc naatagnnag ctcttgttct ttttgcaggg atcccatcga ttcgaattcg 60
gcacgaggtg aattcctcag caccaagttg tttaacacag aagagaggtg gaaacaaaaa 120
atgcttggtt tttactggct ttctttttagc atttctgtct agtcgaaatg ggggccaggc 180
ttgcacacat agacaactga attaatgtaa ccggacctat tccatctagg ctgacctctt 240
gaaagatagg aggggaagtc taaaacagga gaaaagtttt agaaatcctt tggattaggc 300
ttacccagat tagtggtatg taaaatatta tgatattctt agtgtttcag gattatggat 360
tttagtaaaa gcagaaaaaa ataaattctt gtttaactga atctataatg gcaccagtgg 420
tttggaaaca tttctgagtt acttgatttt atgtgaaaaa atctggaata acttttcctt 480
ttttccttta gaccattttt cttttattta acctaatccg agccacttta taccaatttc 540
aacaatattt ctgaattcct gtgatctttt atttcctttt tgctgctttc agctgtgttt 600
ctctccactc taagctcatt aaagttaaaa aaaaaatagg agattggacc catttttttt 660
tctgaggagt gtggccgttt aacaccctgt ggtggctcag gatattttaa gtagtatttt 720
cagctttcta gaantggttg ncttanttag naaatagtta tnggaa 766

<210> 3751
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(771)
<223> n = A,T,C or G

<400> 3751
aggctncttg nnnnctantg aagcctttgc tactagctna gctcttgttc tttttgcagg 60
nacccatcga ttcgaattcg gcacgaggca tagttggaag ttaaggttga aaagagagat 120
aggggaaaac aggtggaata atattgaaaa ttggatcaag aatataggtg taggcgttag 180
ccattttatc ctgggagaag ggaggaaatg aaatanaaac aggaatagat agacgttttg 240
aggcgaaagg aatgaatcca gcatgctctg tttagtgatg tagatgagat cacctgggaa 300
ggcatgaatg ggcgggcaga gtggggtagt gacttcagaa gagtaataag ggttgaaaag 360
cactgctggg tgaggggga ggaatgtcca taacctgact ccagcttcct ttagaataat 420
taacacacgt tacactcctt atttaaacag agatcccaag atcagataaa tccataatta 480
cttatttgtt gtacccacaa aatactatag gggtctgctt actttctctt gaaagcatcc 540
ccttggtaat tattctttta tgtttctcta attgcatgct ngagaaagca tctgttagat 600
gcaactagtc tttagaccct gaacacctgc agatcttgtt gatgcatgcc caagttcaga 660
aagctctgaa agaagttgct ttaaaganga taggccatgg cttttcagat acngaccttg 720
aatctgtagt ggttcctang tttccaatcc taacattacc cacttggtaa g 771

<210> 3752
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3752
agtnnttnnt ttttgactcc ttgctggnct cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggccaca tagcaatggt ntaactgcag gactcaggtc cacttgccca 120
gcagctggca gggaagggcc atgaggcagt agagtcccta caggccaaga aactgagcag 180
aacccatgcc tccagctcac cagctgcatt gaagccccca gctggcaggg agactgctgt 240
gaatggacag ggtgagctca tccccttgaa gaacattgag ggagaattgt caagtgctat 300
tcacatgacc aaggatgcca ccaaggaggc tctacatgcc accatggacc tcaccaagga 360
agctgtgtcc ctgactaagg atgccttcag tttgggcaga gatcgaatga cctccaccat 420
gcacaagatg ttgtccctgc ccccagccaa agtctggtcc agaatctgtt ccacaggatc 480
tctttcaaat gtctcagata atgctggtgt tcaagggagc cctcttgtga ataattatgg 540
ccaggggtca ccagcagcca acagttcaat ttcacccagg ccctggaccg ccaaacagct 600
actcanctgc ttaactggcc cacaagtaca gaccagagac aaagcaagag aagaagcaga 660
gactgtttgg cccgggcccg agaagaagct tgctggcnaa ggggacgttc caacgaagag 720
accactgtcc ttcgagcagg anttaca 747

<210> 3753
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(683)
<223> n = A,T,C or G

<400> 3753
ggatgaacat ggcatcatat gattagaaaa ccaaaattca tttttgatgg ctgttgtggn 60
cagatcgtgt cctctaaaat ttatgtgctg gaaacttaat ttctagtgtt aacagtgccg 120

agaggtaggg gctttgggaa agtttaatgg attaatgccc acatataagg gcttgttgga 180
gggaatttgg gctctttgtt gccccttcca tcctttctac catgtgagga cgccacactc 240
ctccccttg gaagatgcag caaacaaggt gccatcttgg aagcaaagac taagctctta 300
ccacacatcg aacctgttgg tgccctgatc ttggactccc agcctacaga actgtgagga 360
agttaagttt ctgttattta taaaattacc aagtntcagg tattgtgtna tagcaccata 420
aatggactaa anacaatgcc aaaggtggca cttgccatan aactgctgcc gatgatatca 480
actctttgct ttccagagtt aaagctttgg attctgatgg ggttgattct cttttgtgtn 540
ggacccttgt actggttnct attataatag ttcttttcta atnttaagc cgggccccna 600
tggctcatgc ctttaatccc agcactttgg ggaaggccaa ggccnggccn attcaccagg 660
tccaggagnt caagaccatn cnn 683

<210> 3754
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3754
tcagctcttg ttctttntgc aggatcccat cgattcggct gcacagtggg aagggcactg 60
ggctggaagc cctacccatg tcagggaatg tctgggcctc agatttttat tttctagaat 120
gaagatactt acccccccaat tgctgagata tttgaataaa agtatatgtg aaggattttg 180
taattataga atgtcctaca aatatgagta gttcgtttgc tacttttttg gcgaagaaaa 240
atattgggat gcatgaataa tatctaccta aggtacctaa ggttgtattc atcccattta 300
ttgaatgcca aggatatacc agctactgct ccagatgttg tattcaggga acagaagaag 360
agtccctgtg cccatggagc taacagcatt ctaggggagg aaagatgggt cagctgactt 420
tcacgatctc aggtactgat gaagattgtg aagattatta catcaggtga atgtaggggt 480
gatttagaga aagctggtag ctaggctgtt caaggaaggg cctctgtgag aaaggggatg 540
gttggctggg tgtggtggtt cacgcctata atcccagcac tttgggaggt tgggagtttg 600
agaccacctg ccagcatgga gaaaccccgt ctctactaaa aatncaaaat tagcccggca 660
tggtggcaca tgcctgtaat ncangctacc tgggaggctn angccgggag aattgcttga 720
accccgggag gcaaaggttg taattgagcc ct 752

<210> 3755
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 3755
naatancagc tcttgttctt tntgcaggat ccctctnttc gaattcggca cgagtatcac 60
agtttgtaaa cgggtgtttt tgtccttgtt attgaagtat acaactctgc ttagccaaac 120
ataccaagca acagacagaa gcgtcacttg gagagaagaa gaaagggtta actggcagag 180
ctactgtaaa agaaggatag aggagggtaa gtttgaaagt ggccatgggc aagaattttc 240
tccagatagc tcttgattat aatctctctc acctggatta tttcccatct cctgacagtt 300
tgttctcaca taactatcag cagtcctctc aacacagaat cagaccatgt ctctcctctg 360
ctccaaccct ctgaggctct ccatctccct ctggataaca ccctgcatga cctggccctc 420
ctatcccact gctcctcacc gcgctcattc caactctcct gttctccttg ctatttttca 480
tatgggccaa gcaagcacgt gcctcacaac ttgtgctctt ggcgtctgtc tgcctgaaac 540

tttcttgcct caggtagtct catggtttat gccctctcct ctttcaagac ttggttcaag 600
tgtcaccatc tctgtgaggc cttctcagat cacctagtcc tgacacatac tagccttctt 660
tcctactttc tncactgnac tcatcatctg ctaatgngct actggttgca tattgcattt 720
aatgnctgtc ccgttggtca tgctggtttg ggggngggggg 760

<210> 3756
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3756
ttncnaanat cagctcttgt tctttntgcg gatccctttn tncganttcg gcacgaggga 60
atgtcaggcc tctgagccca agccaagcca tcgcatcccc tgtgacttgc atgtatacgc 120
tcagatgggc ctgaagtaac tgaagaatca caaaagaagt gaaaaggccc tgccccgctt 180
aactgatgac attccaccat tgtgatttgt tcctgcccca ccttaactga gtgattaacc 240
ctgtgaattt ccttctcctg gctcagaagc tcccccactg agcaccttgt gacccccgcc 300
ctgcccacca gagaacaacc ccctttgact aattttccat taccttccca aatcctataa 360
gatggcccca cccttatctc ccttcgctga ctctcttttc ggactcagcc cacctgcacc 420
caggtgaaat aaatagcttt attgctcaca caaaaaaaaa aaaaaaaaaa aggataacaa 480
cctgcttggc aagtttgaac tcacaggcat acctcctgca ccccgaggtg ttcctcagat 540
tgaagtcact tttgacattg atgccaatgg tatcctcaat gnctctgctg tggacaagag 600
tacgggaaaa gagaacaaga ttctatcact aatgacaagg gccgttgaca aggaagacat 660
tgaacgtatg gccangaagc tgagaagtcc aaagctgaag atgagaagcn nanggacaag 720
ngtatncaag aattacttgg tctatgcttc aaaaga 756

<210> 3757
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 3757
tnnannatca gctcttgttc tttttgcgga tccctctatt cgctcagaac cactctgtcg 60
tttttaagca gggtcacaca ctctagctca ctgggtccat tttaatttct attaaacatt 120
ttttttttt gcaaatgatg tagtaggaga tccaaggtgt ttggttaatg atttattcac 180
tcattagtca ttccacaaac ttgtcttgag cacctgttat gtacccagca ctgtgctgga 240
atgctgagga gacaggagtg aagtaaaaag acatggttcc ggcaggaaac aggcaaggag 300
agccttgact tgacggagtc tggctatatc gccaggctgg aatgcaatgg cgcgatctct 360
cctcactgca acctccgcct cccgggttca agcgattctc ctgcctcagc acctcgagta 420
gctgggacta caggcgcgcg ccaccacgcc cagatgagaa aactgaggca cagagaggtg 480
aaataagtga gatgctacct acctatgcag agctggaaaa gattttgcaa cctgaaaacc 540
caatcctttc tgagatataa aagaacagaa gagtctggaa gtgatttctt cggagaaatt 600
cattttctta ttccagagaa gaaacttcaa gctcagaata ttggctacta cctgngataa 660
acatttaaat tattgggaac cagagagttt ttatactaaa ttgnaaagaa caatttttt 720
atcaaagacc aancccgaaa ttcttgaccc tcctgggatt tca 763

<210> 3758

<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 3758
ttgaagccct gctctngttc ttttgcagga tccctttnc gcttcggcac gaggtgtagg 60
cccncatcgt ccctcattac tcgggtttca tattttgctg nttttgatgg acatggaang 120
aatncnagcc tcaaaannng ctgaacannn ttggcatcaa aatttnntca gaaaatttcc 180
taaaggagat nnaatcaagg gccnnaanac cgcnaanaga tgcctcttgn acactaanca 240
agcatctnnt gangagnnnc ttaaacangc ttccagncag aancctgcct ggaaagatgg 300
gtccactgcc acntntgttc tggntgtgga cnccattnnt tatattgcca acctcnnnna 360
tagncgggca aacttgtgtc gttataatga gganagtcag aaacatgcag ccttaagcct 420
cagcaaagag cataatccaa ctcagtatga ngagcgntat gaggatacat taaggctgga 480
ngaaacgnta gggatgggcg tgttgncggg cngtgctata gggttnactc tgcatagngg 540
acgtcagacc agnactttcg atttaccctn tgatnngccg acatnagant tctgcccngc 600
tgacacccaa ttgacangnt tnntttncat tnncnttgta tatanggcnc ttaaanggat 660
ttcctcntcn ngatnatanc ctattnnccc tnatacntng gtntatncta ntnnntnntg 720
cntnanttnt cncttganct anctcntaaa cnttnggnaa ntctttttan ctctctngta 780
ngtcttattc tcntantatt nccncc 806

<210> 3759
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 3759
ttcaaatccc nagcttctaa gttctnttgc aggatcccat nnattcgaat tcggcacgag 60
gcttcgtgtg ctactgcgaa ggggaggaaa gcggtgaggg ggaccgcggc ggcttcaacc 120
tctacgtgac cgacgccgcg gagctttgga gcacctgctt cacgccggac agcctgncgg 180
ncctcgtggg taactgggcg ggtctgggag ccgtcacacc cctccttgca ntgcagatcg 240
tctatggggc gacagacatc tgggattccc cagaaggctc tgacaccctc tgcccgccct 300
gtagctgnag tcctcccatt ggctagggct cttggggtcg ggcaggtttn gggtgccccc 360
agtgggcctc gggttncagg cagctcgtga caagcccctg ngctctctag aaagcccgtt 420
ntggcctgag tgcngntgag gacatnaccc cccggttcag gtgagaccca acagggagga 480
aggacngatg ggnagganga ngggtctgcc acagctctcc cgtacctttt ctatnccagg 540
gcagcctgtg agcagcaagc ctgtggctct gacttctgca cgaangacan aagcnattcc 600
ttgacgcttt tcaagggggg ccctaancac ttggcctttg gacctcttca angntaccag 660
gccccaatag gcnagccccc aangctgang ggccgcttta cactggggcc tnggcaaaaa 720
cncgtnttgg aaccttgtaa cnggnnaact ggnaagcttc acnaanaaga caatttntta 780
nnnccnnggg aaaaagcccc cc 802

<210> 3760
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3760
gnnntttnan ntancagttt gaaacccttg gcggaccctc gattcgaatt cggcacgagg 60
tgtttcttct acctcccctg cacaacattg tttatatgct tnctaaaatg taacttcttt 120
agattctgtt gttacgtgca acactgtata tctctccata gcacttaatc agagtttgta 180
attaggcatc tttttgtgtg attatttggt aaatgtccat atcccctact agcctataag 240
ctccatgact tctaggtacc ctgtctgact acgtgtatca ctgtttctac cgcctaacat 300
tgcctagcac attcattgct tcacaggcat ctgaatatgg ttttataaaa tacattgctc 360
tagtgcacag gattttaagc taaggatttc atgaatggga tttggggtag gggcatctat 420
gaaattcctg aaattgtgta gaattttgag aatatgtgtt ttcctgggga tagagtatgt 480
agtttctcag caactcatta cagtctgtca catcatgccc taattctact tgcctgtagc 540
taaacaccta ataacattag aactgaaatg atagtgatat gcaagatagc acgtgtggtt 600
tccacatatt ctaagaggca tcttcaatta gattccaaaa aaaaaaaann nnnnnaannn 660
naaaaaaact cgagcctnta aaactatagn gagtccgatt cgtagatccn gacatgataa 720
gaancattga tgaagtttgg acaaaccnca acttggaatg ccntggaaaa aa 772

<210> 3761
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 3761
tttaaganca gctcttgttc tttttgcgga tccatcgatt cgaattcggc acgagcctcc 60
accaaccccc cagtcgtctg ggatggacaa ccatttggag gagctgagcc tgccggtgcc 120
tacatcagac aggaccacat ctaggacctc ctcctcctcc tcctccgact cctccaccaa 180
cctgcatagc ccaaatccaa gtgatgatgg agcagatacg cccttggcac agtcggatga 240
agaggaggaa aggggtgatg gaggggcaga gcctggagcc tgcagctagc agtgggcccc 300
tgcctacaga ctgaccacgc tggctattct ccacatgaga ccacaggccc agccagagcc 360
tgtcgggaga agaccagact ctttacttgc agtaggcacc agaggtggga aggatggtgg 420
gattgtgtac ctttctaaga attaaccctc tcctgcttta ctgctaattt tttcctgctg 480
caaccctccc accagttttt ggcttactcc tgagatatga tttgcaaatg aggagagaga 540
agatgaggtt ggacaagatg ccactgcttt tcttagcact cttccttccc taaaccatcc 600
cgtagtcttc taatacagtc tctcagacaa agtgtctcta gatggatgtg aactncttaa 660
ctcatcaagt aaggnggtac ttcaagccat gctggcctnc ttacatcctt tttnggaaca 720
gagcacngna taaataatta acttaataat aatatgccca aaaaaaaaaa a 771

<210> 3762
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3762

cagctntngt tctttttgcg gatccctcga ttcgggagag aaaccttatg gatgcattga 60
ctgtggcaag gccttcagcc agaagtcttg ccttgtagca catcagagat atcatacagg 120
aaagactccc tttgtatgtc ctgaatgtgg gcaaccctgt tcacagaagt caggactcat 180
tagacatcag aaaattcact caggagagaa accctataaa tgcagtgact gtgggaaagc 240
cttccttaca aagacaatgc tcattgtaca tcacagaact cacacgggag agagacccta 300
tggctgtgat gagtgtgaga aagcttactt ctatatgtct tgccttgtta aacataagag 360
aatacactca agggagaaac ggggggattc agtgaaggtg gaaaatcctt ccacagcaag 420
tcacagctta agtcctagtg aacatgtgca ggggaaaagc cctgttaata tggtaactgt 480
ggcaatggtg gcagggcagt gtgagtttgc ccacatcctg cattcatgat aaacagtttg 540
ctgtttgatc atatagcctc caacggaatg ctgagtttgt catgtcccat gggccctttg 600
gctccctgca ctaatatgta tagtangggt ttacaagata tgaaaatata ttttactttt 660
tttatatctt ataaacctca ctacccttc cacaatattg gttttcattt actatcttga 720
catagagttt ggcttgggga agggggcagt tttaaangct tccc 764

<210> 3763
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3763
cagctntngt tctttttgcg gatccctcga ttcgggagag aaaccttatg gatgcattga 60
ctgtggcaag gccttcagcc agaagtcttg ccttgtagca catcagagat atcatacagg 120
aaagactccc tttgtatgtc ctgaatgtgg gcaaccctgt tcacagaagt caggactcat 180
tagacatcag aaaattcact caggagagaa accctataaa tgcagtgact gtgggaaagc 240
cttccttaca aagacaatgc tcattgtaca tcacagaact cacacgggag agagacccta 300
tggctgtgat gagtgtgaga aagcttactt ctatatgtct tgccttgtta aacataagag 360
aatacactca agggagaaac ggggggattc agtgaaggtg gaaaatcctt ccacagcaag 420
tcacagctta agtcctagtg aacatgtgca ggggaaaagc cctgttaata tggtaactgt 480
ggcaatggtg gcagggcagt gtgagtttgc ccacatcctg cattcatgat aaacagtttg 540
ctgtttgatc atatagcctc caacggaatg ctgagtttgt catgtcccat gggccctttg 600
gctccctgca ctaatatgta tagtangggt ttacaagata tgaaaatata ttttactttt 660
tttatatctt ataaacctca ctacccttc cacaatattg gttttcattt actatcttga 720
catagagttt ggcttgggga agggggcagt tttaaangct tccc 764

<210> 3764
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 3764
ttctaatgct tggntctcga tctttggtca ggatccctcg attcgctgag aaaatcatag 60
agatcctgga gagcgggcat ttgcggaagc tggaccatat cagtgagagc gtgcctgtct 120
tggagctctt ctccaacatc tggggagctg ggaccaagac tgcccagatg tggtaccaac 180
agggcttccg aagtctggaa gacatccgca gccaggcctc cctgacaacc cagcaggcca 240
tcggcctgaa gcattacagt gacttcctgg aacgtatgcc cagggaggag gctacagaga 300
ttgagcagac agtccagaaa gcagcccagg cctttaactc cgggctgctg tgtgtggcat 360

gtggttcata ccgacgggga aaggcgacct gtggtgatgt cgacgtgctc atcactcacc 420
cagatggctg gtcccaccgg ggtatcttca gccgcctcct tgacagtctt cggcaggaag 480
ggttcctcac aagatgactt tggtgagccc anaggagaat ggtcagcaac agaagtcttg 540
ggggtgtgcc cggcttccaa ggccatggcg gcggaaccgg gcgcctggac atcatcgtgg 600
tgccctataa gcgagttttc ctgtgccctg ctctaactta cccggctttt gacacttcaa 660
ccgcttccat gcnaacccct tgcccaaaaa ccaaagggcc ttgaagtttt ntcatgaaca 720
ntgcccttca accacttgnt gtgggtcccg ggaacaaccc atgggatnna aaggnggngg 780
ccttgnccca aattgcttnn cc 802

<210> 3765
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3765
atacagctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga ggcatatgct 60
tgtctcaaag attaagccat gcatgtctaa gtacgcaggg cctgagtctn tgccctcgtg 120
ggcgttgagt gacactgatt ctcgcgtgtc tccggcctct ccggcaggga gtcctancgc 180
agactttgcg gntcatggag agtctctggg agacaggcac ctgcggacgc tgcagataag 240
ttacgacgca ctgaaagatg aaaattctaa gctgagaaga aagctgaatg aggttcagag 300
cttctctgaa gctcaaacag aaatggtgag gacgcttgag cggaagttat aagcaaaaat 360
gatcaaggag gaaagcgact accacgacct ggagtcggtg gttcagcagg tggagcagaa 420
cctggagctg atgaccaaac gggctgtaaa ggcagaaaac cacgtcgtga aactaaaaca 480
ggaaatcagt ttgctccagg cgcaggtctg caacttncag cgagagaatg aagccctgcg 540
gtgcggacag ggcgccagcc tgacccgtgg tgaacagaac nccgacgtgg ccctgcagaa 600
cctccgggtg gtcatgaaca gtgcacagct ttcatcaagc actggtttcc ggagctgaga 660
cctgaatctt gttgccaaat ccttaaatct attgacngaa tttctgaagt taaagaccan 720
gaggaagact nttgaggccc tggn 744

<210> 3766
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3766
atcagtttct tgcctttntn caggatccct cgattcgaat tcggcacgag gtttccctgg 60
cttaccgtga tgacgcattt gctgagtggt ctgaaatggc ccatgaaaga gtaccacgga 120
aactcaaatg caccttcaca tctcccaaga ctccagagca tgagggccgt tactatgaat 180
gtgatgtcct tcctttcatg gaaattgggt ctgtggccca taagttttac cttttaaaca 240
tccggctgcc tgtgaatgag aagaagaaaa tcaatgtggg aattggggag ataaaggata 300
tccggttggt ggggatccac caaaatggag gcttcaccaa ggtgtggttt gccatgaaga 360
ccttccttac gcccagcatc ttcatcatta tggtgtggta ttggaggagg atcaccatga 420
tgtcccgacc cccagtgctt ctggaaaaag tcatctttgc ccttgggatt tccatgacct 480
ttatcaatat cccagtggaa tggttttcca tcgggtttga ctggacctgg atgctgctgn 540
ttggtgacat ncgacagggc atcttctatg ccatgcttct ggccttctgg atcatcttct 600
gtggcgagca catgatggat cagcacgaac cggnaccaca tngcanggta ttggaagcca 660

agtcggccca ntgccgtngn tcttctgnct ttcatatttg acatgtgtta aaaaangggt 720
ccaacttacg aatnccttttt acagtt 746

<210> 3767
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3767
tnagatacag ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgaggtttt 60
atttataaaa caaaaattta tatttgcaca ggaggagaat tagcaggatg taaaataaaa 120
atgaaagacc ccaatgggga gaatatttta aatgtcttgc agggagtgga agaaagcttt 180
gcttaaaaat gtcaccatat gctaactata tacagcactt caagtttatt tattgttaaa 240
gcctcatgta aatcacgtca ttctgaaaat catggaaact gcacatttgt gcattaaact 300
atgtaaacaa caaaaactgg tcatccgtcc aattgttgct tcacttattt tgaattatag 360
tgcaattttg tggagggtga aatggggatt acacaatata gcgatttcct gttaacacct 420
acatttttgc tgatcaagca aggtctgttg gtgcgagagc ttaaccttta ttttatttcc 480
aaatgtgttt tttattccga gtcccgttgg tgtctatggt ttcacttttc tccatgagcc 540
acatgttaaa gcctgccctg actaaatgaa ggagtgtaag cagtgggata gacattgcag 600
gcaggcgaaa ctgggataag ccccagaatc ttttgaacct atcagtaata ttactaacag 660
gggagaaagt ataaaagtga gcccttcaag tgctctagtg tacatgtcag aattnaagca 720
cgagttncac gggatggctc acccccttc 749

<210> 3768
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3768
caaatncnng ctctcgttct ttntgcagga tccctcgatt cgaattcggc acgagggctg 60
cagtgagctg tgatcgtgcc actgcactcc atcctgggtg gcagagtgag gccctgtctc 120
aaaataaata atccagtccc ccccaagaaa gggaatgaag tgctataatg agaaaaatcc 180
tagtacctaa catatagtag acagtggaga gtggttctct ttcgttnctc aggggcagac 240
agattgggtg ctggagtcct ctatcaaaga gtcagagctc tatcccagat gtgtaatgaa 300
cgtggtcaca gacatattgt ccattaccat ttaccttccc tataaccact gtgcctccag 360
ccttgtagaa tagacacata ggagcgcagc aatacgtcta aaaataggag tgagagaggg 420
cagggcatgc ccgttcttgn ggtagaagaa aagaatgtca aagaaagcag ctgggactaa 480
tgaactttac attagccata ttccattatt tcagcttaag tcaaatgtcg gtcctcatga 540
ggcaactggc tttgacagga gctacgctaa ttaccactta ccaaccttta atttctgggt 600
aaaagcaaaa gacaaaaact aatggatttn tcattttnca cagngacaag aattaaataa 660
tagtangtct gtcnaaaaaa aacaaaattn aaactcgagc ctntagaact ttngngagtc 720
gtattacntt agatncagac ntgatacgat accatggan 759

<210> 3769
<211> 754
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3769
ttgcnaatgc taggctactc gntctttttg caggatccca tcgattcgaa ttcggcacga 60
ggagccacca tgcctggccc atcgtntcat ttgatccttg caacacccta tgagaatatc 120
cngatcgaac gatntcacag atnatccata gtgatactca gctaacggnt ggtctgccaa 180
gacttgaacc caccattctt gttactnnct tgatnncttt aanactggtt atnnnnngcc 240
agtntgnnat ggngcnnaaa atangatgtn ngnttttgg angtannann tgctacaggc 300
ntnnactnta tnatctnagc natagcnagt ncaagtnnga ctgattnagn atacacnnng 360
nngtgttant ngctaaaata ttgaaanaac tttnattctg gntggagcnc gtnnngtntc 420
ccaaatatga acaaccaana tctgaaatgc tncaaagctg gaaactttta gagtgnttnt 480
gantgccngc caacatgaca tgcaaganaa acattnattt ggagcatttn ggattgtgna 540
tattnagatt ngggatgctc antangnatt aatgcanata ttncaaaanc cncgccttcn 600
gacccagcng aaanaaaaac caaaanccca naatacttgn gntcnccaag cattcatgaa 660
aaaaatgatn cttaacctng naaatagctt tgncccaacc cncnnaagtt tctttntcta 720
cttccctggc cantttnaac attaggaacc ccct 754

<210> 3770
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 3770
tcagctcttg ttctttntgc aggatcccat cgattcggct gcacagtggg aagggcactg 60
ggctggaagc cctacccatg tcagggaatg tctgggcctc agatttttat tttctagaat 120
gaagatactt acccccccaat tgctgagata tttgaataaa agtatatgtg aaggattttg 180
taattataga atgtcctaca aatatgagta gttcgtttgc tacttttttg gcgaagaaaa 240
atattgggat gcatgaataa tatctaccta aggtacctaa ggttgtattc atcccattta 300
ttgaatgcca aggatatacc agctactgct ccagatgttg tattcaggga acagaagaag 360
agtccctgtg cccatggagc taacagcatt ctaggggagg aaagatgggt cagctgactt 420
tcacgatctc aggtactgat gaagattgtg aagattatta catcaggtga atgtaggggt 480
gatttagaga aagctggtag ctaggctgtt caaggaaggg cctctgtgag aaaggggatg 540
gttggctggg tgtggtggtt cacgcctata atcccagcac tttgggaggt tgggagtttg 600
agaccacctg ccagcatgga gaaaccccgt ctctactaaa aatncaaaat tagcccggca 660
tggtggcaca tgcctgtaat ncangctacc tgggaggctn angccgggag aattgcttga 720
accccgggag gcaaaggttg taattgagcc ct 752

<210> 3771
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3771
taaagnatca ngntcttgtt ctttttgcag gatcccatcg attcgctgga ccgggtcttg 60
gtgctttcca gctcagggcg ttggtccact tggttattct tggggaccaa aatccaagct 120
aggatgggga cagaggcctg gagacaacct gctggcctcc ttccattaaa gccattacag 180
tgtcaccaca ggattgtaag aattacaaat gcgttttcca gagtccccag agaaaaagga 240
gtctggcagt tagaagagta aagtgcatct gtcaacaaaa gaaataccaa agatgagact 300
acagcagcga cttgtcacct cttccgtgtt gctactgcct gagaacagag gtttttagtt 360
tctttaaagg gttgtaaaca taaaaacaaa gaaggataca acatgcaagg cctaaaatgt 420
ttactttctg gccttttaca caggcagttc gccagccccc taccctacag tatggaaaaa 480
aggcatagaa cagtcaaatc acgtaggatt tcttggtttc tccatgcagg ctcatcgaat 540
agcaaccatc ctttcttagt ttcttgaaac aagtacctta tttacattca gagaattata 600
tgtggacaaa cagctcataa gcccgtactt ttacatactc acttcctgaa ttgcatattg 660
aaaaagagag ttcatgtaaa gcccgattat tatttaatct aaagttatgt tcacatagga 720
agcactatgt agagaaatag ggtctgangg acaaggagcc t 761

<210> 3772
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 3772
taaagnatca ngntcttgtt ctttttgcag gatcccatcg attcgctgga ccgggtcttg 60
gtgctttcca gctcagggcg ttggtccact tggttattct tggggaccaa aatccaagct 120
aggatgggga cagaggcctg gagacaacct gctggcctcc ttccattaaa gccattacag 180
tgtcaccaca ggattgtaag aattacaaat gcgttttcca gagtccccag agaaaaagga 240
gtctggcagt tagaagagta aagtgcatct gtcaacaaaa gaaataccaa agatgagact 300
acagcagcga cttgtcacct cttccgtgtt gctactgcct gagaacagag gtttttagtt 360
tctttaaagg gttgtaaaca taaaaacaaa gaaggataca acatgcaagg cctaaaatgt 420
ttactttctg gccttttaca caggcagttc gccagccccc taccctacag tatggaaaaa 480
aggcatagaa cagtcaaatc acgtaggatt tcttggtttc tccatgcagg ctcatcgaat 540
agcaaccatc ctttcttagt ttcttgaaac aagtacctta tttacattca gagaattata 600
tgtggacaaa cagctcataa gcccgtactt ttacatactc acttcctgaa ttgcatattg 660
aaaaagagag ttcatgtaaa gcccgattat tatttaatct aaagttatgt tcacatagga 720
agcactatgt agagaaatag ggtctgangg acaaggagcc t 761

<210> 3773
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 3773
ggnnnntttn nnatttngnc nnannnanaa ctctnnagna ancccttttgt ncaggcatcc 60
catcgattcg aattcggcac gagcagcctg cggccaggct ttttatttaa tntnaatagt 120
ttttgtttgc ctccgtggtt tggtcaccgt gtgcatcgca ccgtgctgta aatgtggcag 180
tcgctgtgtt gggagagccg gccacgccct tggctttaga gctgtgttga aatccatttt 240
ggtggttggt ttttaaccca aactcagtgc atttttttaaa atagttaaga atccaagtcg 300

agaacacttg aacacacaga agggagaccc cgcctagcat agatttgcag ttacggcctg 360
gatgccagtc gccagcccag ctgttcccct cgggaacatg aggtggtggt ggcgcagcag 420
actgcgatca attctgcatg gtcacagtag agatccccgc aactcgcttg tccttgggtc 480
accctgcatt ccatagccat gtgcttgtcc ctgtgctccc acggttccca ggggccaggc 540
tgggagccca cagccacccc actatgccgc aggccgccta cccaccttca ggcagcctat 600
gggacgcagg gccccatctg tccctcggtc gcccgtgtgg ccagantggg gtcccgncgt 660
ccccaacact cgngcttcgg nttcagaaca cttttgggca nggaangtct tgggggccct 720
taaccaagca nggaaccncc gtgccaaagc ccngggcaag gccgggtccc aaccttagga 780
accccaacaa gccccctttn ggggaagcca acccccnaaa ccttttggg gggg 834

<210> 3774
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3774
gnnnttttaa atacccagct ttcaaatcct tgttcncgnc ttncgcagga tccctcgatt 60
cgaattccgt tgctgtcggt gatgagattc tgatggaaga gattaaggat tacaaggcac 120
gcttgacctg tccgtgctgt aacatgcgta aaaaggatgc tgttcttact aagtgttttc 180
atgtcttctg ctttgagtgt gtgaagacac gctatgacac ccgccagcgc aaatgtccca 240
agtgtaatgc tgcttttggt gccaatgatt ttcatcgcat ctacattggt tgatctaagt 300
caaganaaga agaggagctg gctagtcang aacttattca ttaaccacca aacctctacc 360
tnttctctcc ttgactgtca cctgtaggac agtttatcag tcaactacct ttcctccaga 420
ctttacttcc aggctctnct cttcagtanc tggatgactt tagcagaaag gactggtaaa 480
tacaagcctt gggtttcaga atgaattaga aacaaataac tcttactgtc ttcctccca 540
gctttgttta ttttgtgctt ttagactttt cagtgntntc ttttttcagn ccactgtata 600
aacttggatt gtccattcct cctgaagaaa tcaagttggg tatttttgat gtggaaaagg 660
gaacaanaag tggaaacatg gctacttttt ggggagtgga tnttttaaaa aaatnaggtt 720
ggctatgggc accaaanttt tctacatttg ngtnncaaac ttcttgtgaa atgtgggatt 780
ncaaant 787

<210> 3775
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3775
ttnnnnnnnn cagctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gctgggtgtg gtggcttatg cctgtaatcc aaacactttg ggaggccaag aagggaggat 120
cacttgagcc caagaatttg agaccagcct gggtaactta gtgagaccct gtttctaaaa 180
ataaatagac agatgataga tagtcagata gagagagaga gagagatgat atagatatag 240
atagatagat agaatgttct ctaccccaag ggtggagaaa gacttgagca aagacacaga 300
ggccacatgg attaaaagga ggaggagaag ccctgtgttt gcagggatga atggcctatg 360
ctctggggag gtgggctgtg ccctcagcag catccacatc taatgcagga caacaccatc 420
gacttcctgg agtacgtggc agctctgaat ctcgtgctga ggggcaccct ggagcacaag 480
ctgaagtgga cattcaagat ctatgataag gatggcaatg gctgcatcga cccgcctgga 540

gctctcaaca ttgtggaggg aatttaccag ctgaagaaag cctgccgcga gagctacaaa 600
ctgagcaagg ccagctgctc acacccgagg aggtcctgga caggatcttn ctcctggtgg 660
atgagaatgg agatggccac tgctnttgac naattggtga agngcccctc gggccaagtg 720
ggtgatgaaa atcttccnat ggc 743

<210> 3776
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 3776
atcagctctt gttctttttg caggatccca tcgattcggg agggcaggag agtgaccaag 60
cagctagaag agagggtgca gcaccccaag gnnaggactg ggggagtggg tgttccagga 120
agggctctgg catgtaaagc tgcacagaag tcaaatcaga taaagcctga gagggatcca 180
tgggatttct tggcaaaggg attgttggtg ataccaggaa gagcagcttc agtggctcat 240
ggggagagaa gccagattac aggagatcag caactgagag agtgagtgga gagcatcttt 300
taagaatgtc ttgagtgcgg gccggctgcg gtggctcacg cctgtaatct cagcactttg 360
ggaggccgag gcgggcgaat cacgaggtca ggagttcgag accagcctgg ccaacatggt 420
gaaacccgtc tctactaaaa ttacaacaat tagctgggca cggcgcantg gtgcgtgcct 480
gtaatcccag ctctcgggag gctgangcag gagaatcact tagaccaggg agtcggaagt 540
tgcagtgagc tganattgcg ccactgcact tcanactggt gacagaacta gactctgtca 600
aaaaaaaaaa aaaaaaaaac tcgagcctnt agaactatat gagtcnnatt cctagatccn 660
gacatgataa gatncattga tagtttggac aaccacactt gaatgcntga aaaaatcttt 720
atttggaaat 730

<210> 3777
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 3777
ggnnnnnnnn nttttnnncn atggaaactt ttgctattgc nctttttgca ggatcccatc 60
gattcgaatt cggcacgagg ccaccaccac caccagcccc acaaaattna cctcaaggcn 120
tacgaacagg tgatgcacta ccccggctac ggttccccca tgcctggcag cttggccatg 180
ggcccggtca cgaacaaaac gggcctggac gcctcgcccc tggccgcaga tacctcctac 240
taccaggggg tgtactcccg gcccattatg aactcctctt aagaagacga cggcttcagg 300
cccggctaac tctggcaccc cggatcgagg acaagtgaga gagcaagtgg gggtcgagac 360
tttggggaga cggtgttgca gagacgcaag ggagaagaaa tccataacac ccccacccca 420
acacccccaa gacagcagtc ttcttcaccc gctgcagccg ttccgtccca aacagagggc 480
cacacagata ccccacgttc tatataagga ggaaaacggg aaagaatata aagttaaaaa 540
aaagcctccg gtttccacta ctgtgtagac tcctgcttct tcaagcacct gcagattctg 600
attttttttgg tggtggtggt ggtctccatt gctgntgntg caaggaaagt cttacttaaa 660
aaaaaaaaaa ttttgtgagt gactcggngt aaaaccatgt agntttaaca gaaccngang 720
gttgtctatg gttaaaaagc ctntagaact atgngagtcg nattacgta 769

<210> 3778

<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3778
naanannagc tcttgttctt tttgcaggat cccatcgatt cgcccacctc ggcttcccaa 60
agtactggga ttacagacgt gagccaccgc acctggccta aatttcacca tcgtttctat 120
tcataactta cctgcaaagt gattatctga ctagtactac tgcaacaaag ataataaagt 180
gcctgatgtt tatatcaaat aggatatggc atgtttctga gtgtttctaa agaaaaatac 240
tgaatgaacc cctcgcctaa cctagtgcct gtggtaacaa taactgacat gcattgagcg 300
ttactgtgt gccaggtgct tgttcgaggt actttaccgg tattaactct ttaattcgca 360
taacccttct gtgagatggg taacattata cccattttac agatgaggaa tctgaggcct 420
ggagatatca aatcatgtgc ccaaggccac aaagccaaca tgtggtagaa ctgagactcg 480
aatctaggca gtttgttcca atttttgtgc tttgaacctg tgcacaatat gactattgct 540
attttgtgat attatttgag atttctcttt taattattct tgatatcttt ggggcagaaa 600
aacaatgaat aataatgtta tgaatattaa agcccctcaa aaaaaaaaaa nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnaaaaaa aaaacctggc ctttaaaatt 720
ttgggggnn ntttccnnaa anc 743

<210> 3779
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3779
ttntatatca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgaggata 60
taatggccan gaggaatcan aaacctgacg ttagaaaggc tcaacgagaa cangctatca 120
gggctgctaa ngaagcaaaa aaggctaagc aagcatctaa aaagactgca atggctgctg 180
ctaaggcacc tacaaaggca gcacctannc aaaagattgt gaagcctgtg aaagtttcag 240
nctacaggtg gacaatgagg aggaggaaag ccnnggacag gttgaagggc ggcttgnccc 300
atccactgtg gtcctggacc acacangcgg ctttgagggg cttctcctgn tggntgatga 360
cctgctgggg gtgattggac acagcaactt tggcaccatc cgntctacca catgcgtgtt 420
caaagggaaa tggctctncn aggtcctcat ctctnccang ggctcatgca natcggctgg 480
tgcaccatca nctgccgntt taaccangan gaggggggttg gagatacaca caactcctat 540
gcctatgatg gcaaccgcnt gcncaagtgg aatgtgacca cancgaatta tgccccccca 600
tctntgctgg gttncanncc tgtggtcaca agtnctgcng ngcctgtatn aaccagcacc 660
tgttgaacan canggacttg nttcttcttc aaaaccaccn ttntgtctgt anangacttg 720
gtanaaggga gccaatccna gttctacn 748

<210> 3780
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(771)
<223> n = A,T,C or G

<400> 3780
gnnnnnttnn nnnnnnnnnn ttttnaatnt cagctacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag ggatttctcc tccttccgcg ctttctgcgt gacactggct 120
gtcagctctg ggctgggctt tctgggggcc acacagctgc tgaggcggcg ggttgaggcg 180
gcccgaaagg acccagggtg ctcagcctgg ttgtggatag cggcctgtgt ggagaggagc 240
tgcttgtagg cagtgaggag gcggacagca tcaccttggg ccggtatctc cggcagctgg 300
cacgccatcg gaacttcctg tggttcgtga gcatggacct ggtgcaggtg cagtggctca 360
cgcctgtaat cccagcactt cgggacgcca aggtggaaag accgcttgag cccaggagtt 420
cgaggctgca atgagttatg attgcaccac tgcactccag cctgggcggc agagaaaggc 480
tccatctcta aaaaaagaag agctaagtgc tgtacctaaa acatgcagta tataaactgg 540
ctgaacttag aaataaactg ttttcatgtt atgaaaaaaa aaannnnnnn nnnnnnnnnn 600
nnnaaaaaaa aaaactcgag cctntanaac tatagngagt cntnttacgt anatccagac 660
ntgataagat ncattgatga gtttggggac aaacccaact ngaatgcntg aaaaaaatgc 720
tttatttgng aaaatttggg atctatgctt tatttgtacc attataagct n 771

<210> 3781
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3781
cnnntttcaa atcgcttgtt actngttctt tttgcaggat cccatcgatt cgaattcggc 60
acgaggtgag gggctgtctg gcccttctga ttttttgtta acgagacatg gattgtggca 120
tcaagattta gattcattcc tctgtttgtt ggagtcattg aagccagtat atcctggaca 180
ttttttaaag aggtccccat tctgagaaaa gacaggagtt gaatgtctta ttgattctta 240
cctttctgtt cgttatagac gaccagagga aacaaatgcc cgacacggat tcgactcagt 300
cataagtgtg aaccaaatag gccgatctgg gttctctcac tgactgaaga ggaagagaaa 360
taagagagga cagtgggcaa aatgtagggt gacaaccaag ggttctggtt tgcccagaat 420
tgccctgggt tcaaccctga agttcccatg ttgtggacag ccccgtggtc ctagacaaac 480
aggtcacctt agcggtaaaa gcctttctca ggagtgagag ctccagggga gacaaaacgg 540
gtttggtttt ggaacctgga ggaagaaggc aaaatgagaa gagtncactg gcagtgagtc 600
ccggaaaggn cccgccttgc aacaancgtg gcatcttccg gacccacttc cttgctcttt 660
ctcccgttag ccctgccctt aatgtngggt cccagtgcaa aanccctntt gggggccngg 720
gcccgttgcc ctgcttaatt caattgcaan cttggaccag gaaaagccca gcccagctt 779

<210> 3782
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 3782
tacaggctac ttgttctttt tgcaggatcc catcgattcg aattcggcac gagcaggctc 60
atctccaact gacctcatga tccactggct tcggcctccc aaagtgctgg agtgcagtgg 120

tgtgatcatg gctcactgca gccttgacct cctgggctaa agcaatttgc cttcctcggc 180
ctctcaaagt gctgggatta caggtgtgag ccactgcacg tggcctcttt ttagtttatt 240
ttttccaaaa ttatttgaa aagtttcaag gtggaatgta gtgacaccat cacggctcac 300
cgaagacttg acctcctggg ctcaggtgat cctcccacct cagcctctca agtagctggg 360
actacaggtg cacaccacca cacccagcta gtttttatgg tttttttaga gacagggttt 420
cgccacgttg cccaggcagg tagaactccc gtactcaagt gatccgtccg cctcagcctc 480
ccaaggtgtt gggattacag gtgtgagcca ctgcacccgg cccatttctt cttagattta 540
acagttaaca ttttgctaca tttgttttat gtccccatat atctggtttt cccttaagct 600
atatgaggct acattgnggg tacactttac ccaatattct ggtatcaacc acagtgccat 660
aatcataata aaaaaattta acattggtgc agtaaaaaaa aaaaaaaaaa actcgaggnc 720
tttagaacta tnntgagtcg ntta 744

<210> 3783
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3783
anacagctct tgttcttttt gcaggatccc atcgattcgc aacagaataa gactccatct 60
caagaaaaaa aaaaggttaa agttcctgac ttaatgagga aataaaaaaa ttatatgctg 120
aagttgctaa gatctagctt gtgtttgtga aattgtgaag aaagaaaaag aaattcatag 180
tagttttatg gtcacacttc tgcaaaaatt gcagccacag tgcatgataa gtgcatagtt 240
aagatggaaa aggcattttt tgagtggaag acatgaagag aaatagcttc caatgacagc 300
attcaagttc ggtactatac atggtttcag gaatctacta gaggtcttgg aacatatccc 360
tgtggataag aagggactac tgtattgcca accagggaag cttcagtgct tccagagaat 420
ttattagggc atcattacat aggcacgatt gatttgtttg gctgcccaca tggttgaact 480
cagtcttcaa gtcaactgat accaagttgt ccaaagttcc ccaccctaaa ccacatggtt 540
ggtctttctg gcatggcccg gctttcaccc taagactact gggtgttgca gctgcaacct 600
aaaatctagt aacaaagaca tgcttatcag gtctgacata gattaccttc caaagggaa 660
agatcagaca tctctttggg taangtcaac tttttttac tacattgaga caaattctat 720
ttcaaggaca gagttaagga gggaatgaat ttt 753

<210> 3784
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3784
tacagctact tgttcttttt gcaggatccc tcgattcgaa ttcggcacga gaccacacct 60
ggctcattta tttttatttt gtctagagac agtgtctcac tatgttacct gggctggtct 120
tgaactcctg gcccctaatg atctgtctat ctcaatcacc caaagtgttg ggattacaga 180
tatgagccac tgtgcctggc ctatttctga ctttttttct ttttgtatat aagaatatat 240
atttcgagac aaattgtgga ttataaatgg atgcttattt atctcgactg cctttcagac 300
ctttttcccc cagccaacca gtttttttct tctcaaagaa gacacaggtg aaactgaaac 360
tcatctattt cttctgattg agattgtgtg ggtctactcc actcagcttt tgcagtacat 420
ggaaagttga gataaacgcc taaagaaact agtttcagtc atagatttag taaaaatgtt 480

attgcaaatc tcttctttga actcaangtg cttttctcag tttcttaaac caccacccag 540
agagatcttt catgtcctct ttgccctgga gatgtacatt gggaacaaaa accttaagtc 600
agttcttcac ttttttactg ctttggctct tagtaattat ctgntcttct attaaacaag 660
gagaagacag attaaatttc taacagtnag ggcacaaaac caatccattt acagaattag 720
tcttacttta ccacatagga 740

<210> 3785
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3785
tcnnntgaan acctttacaa ctacntgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggaa aagaaaaaaa aagaaattta aaattctgtt ttagtggagt catttgaact 120
taagtctaag tttataacaa cactggcttc cacagcacag gaggtgagca tgtgttaata 180
tttaagattg gcataactcc ctttaggtgc aagtgttcag gccaaaatgt tcctgagcat 240
tttgattcct cctcctgctg cccatctata ccaagcccag aaactgtctg gaatatattt 300
tagtttcctg aatgacacca agaagtagaa cagtcttttc aaaaatgtat tttaaaaata 360
agctgaatct caagaatctg atctatagta taatgaaaac tgaaaagtga agtagtcatt 420
gggatactct actgtctcac ttaattctca cggcttccct gcaaggtggg taaaattgtt 480
cctacagata gtcaaattga gttttacagt tagaaaatga ttgggctagg atttgagccc 540
aatgtctgtc agattcctga gtttctgcta cttctactaa aatatgctgc ttcttgtgtg 600
tccngtcttc tgtttgggga caagcagatg atatccctaa caaaatcaat ttctttatta 660
ttattctctt ttacctttttg gttcccagca gtacaagtcc cagttttgaa gctcaaaaga 720
ctggtatgag catagctcat cgacgacatg gtg 753

<210> 3786
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 3786
tccntnngaa nnccccttaca agctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg ccaaatcctt cagtggatgt gaaaggaata ggagatgaat tatataatcc 120
agaaacacat aaacgacata ctttgttttg tgggacaact gttattcaga ctcgtttcta 180
cactggagaa ctcgtcaaag ccatagttgt tagaacagga tttagtactt ccaaaggaca 240
gcttgttcgt tccatattgt atcccaaacc aactgatttt aaactctaca gagatgccta 300
cttgtttcta ctatgtcttg tggcagttgc tggcattggg tttatctaca ctattattaa 360
tagcatttta aatgaggtac aagttggggt cataattatc gagtctcttg atattatcac 420
aattactgtg ccccctgcac ttcctgctgc aatgactgct ggtattgtgt atgctcagag 480
aagactgaaa aaaatcggta ttttctgtat cagtcctcaa agaataaata tttgtggaca 540
gctcaatctt gtttgctttg acaagactgg aactctaact gaagatggtt tagatctttg 600
ggggattcaa cgagtgggaa aatgcacgat ttctttcacc cagaaagaaa aatggtgtgc 660
caatgaagat gtttgggtaa aaatccccag ttttggttgc nttggtatng gcttacttgg 720
tcattcccct ttcacaaaaa atttggangg gggggggcccn ttttgggngg atnccacctt 780
ggaatcttga a 791

<210> 3787
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3787
nccnttttta naccctttt nctaccgnnc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagaaa agacttataa gccctctgat tgatctcctt tgttgttgac ttcttgatcc 120
tctttaattc aggaatcaca gttagatttc ttagaatcct tctttgtgct ccaagtatca 180
aagaccttat ggggctcccc agccataatg gaaaaagtaa tttctttaac aggggagaca 240
ccagagcaag agcggagatg ggggtacgag ggggtcctca tttatgcagc tggccagagc 300
tcctcatcca acccggggct tagtgaggtg acagatgtga tgttggccaa tgtagtcttc 360
cttttctttc ttttttttt tctgaggcag agtctcgctc tgtcacccaa gctggaacgc 420
agtggcgtga tctcagctcg ctgcaacctc tgtctcctgg gttcaagcga ttccccagcc 480
tcagcctccc agcactttgg gaggctgagg tgggtggatc acttgaggtc aggggttcga 540
gaccagcctg ccaacatggt gaaactccat ctctactaaa aatacaaaaa ctggccangt 600
gtggtggcgt gtgcctgtaa tcccactact caggangcag aaggcaggaa aaatcacttt 660
gaaaatcang aaggcngagg ttgcaantga ncctgaanat ggcaccactg cactgtancc 720
ttgggcaaca gggcaagaac tccatcaaaa aaaaaaaaaa aaat 764

<210> 3788
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 3788
gnccntttta tnccatacng ctacttgttc tttttgcagg atccctcgat tcgaattcgg 60
cacgagccac tgctacagcc ttagtccaga nttttctctt tctcttatct aggctgttan 120
tatagcctan taaatgttcc gggccctcca gtctatttgt cattcaatca cttgtttcag 180
aaatattact aggcacttat tttatgccat ggcacaattc taggtgctga agacgacaca 240
gctgcgaata aaacagacat gggacctgtt cttgtggagc ttatacttta gtgcgtagag 300
aaactaaaca gagaggtatg aaagatagtg atgggacata attctactga aggttgggtg 360
atcaaagaag ctttgctgaa gagatttgtg ttgatgttgg tattttctaa aaacagatga 420
ccaatatggt taaatttggt tctgagggag aaggtaacat gagatgagct cagataatta 480
gacaggggcc agatcattta tatgcaaatt agattatgag ataacagaat ggtatatttc 540
cctcatccta tttactgcag caaatctctc cttagttgat gagactgtgt ttatctccct 600
ttaaaaccct acctatcctg aatggtctgt cattgtctgc ctttaaaatc cttcctcttt 660
cttcctcctc tattctctaa ataatggatg gggctaagtt atacccaaag ctcactttac 720
aaaatatttn ctcagtcttt tgcagaaaaa accaant 757

<210> 3789
<211> 926
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(926)
<223> n = A,T,C or G

<400> 3789
tncgncnctt ttnnnantag nnnnnntgnc nnntgnaann gntnnatgan gtnctnnntn 60
actatnatgt aannnagacn tncgcttana tatatcgngc nnnnanannc nngtngtatn 120
atnannagng tgnctaattn gncanaaacg cctnnactga ggnacttgta nntntttgca 180
ngnncccnan gannncgaac aaatccatct tgtaatgaac ggnggaaaag ggccagcgag 240
accacacagc acatcaatgc catcaagcgg gagattgatg tgaccaagga ggccctgaat 300
ttccagaagt cactacggga gaagcaaggc aagtacgaaa acaaggggct gatgatcatc 360
gatgaggaag aattcctgct gatcctcaag ctcaaagacc tcaagaagca gtaccgcanc 420
gagtaccang acctgcgtga cctcatggct gatatccagt attgccagca cctagtggat 480
caagtgtcgc caccgcctgn tcatggaatt ttgacatctg gtacaatgag nccttttgtca 540
tccctganga catgcagatn gcactgaaag ccaggcggca gcatccggnc aggcattggt 600
ccntgtgaac aggattgtgt ctctgggaga agatgaccca ggacaanatt cagccaanct 660
gcagcagagg gtngctttcc tggagggccc ctgattccat ctgctttnan aatgccaaag 720
tnaanataga gcntnaagca taattacttg aaaaccattg atgggccttc agngggcccc 780
atagaaaaat nanaacctnn ttgnncagtt ccttnangga aaaagancag nnactcctac 840
cntacttggt agtgggagct gnttcaacca cnntgnccaa aaactngtan ccccctttta 900
nttcnattgn tgggacccca nncang 926

<210> 3790
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3790
gnnncntttt gaatncanat acaagctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agcattagtg taagtgcagg taattgcttc attaggacat atgtattgaa 120
ggagggaggg caagtctata gcatggtgat aaaaacaggc ctcaccctct ttctctaccc 180
acacagggag catctcagct tgacttcagg gatccaggag ccaccagcca ccctgtaaac 240
agcccagatt aatcctgggt ttcagtgtca tgggaggaag gaaggatgac ctagtaaaga 300
gcaacttact tactttcttt ggggtggtaa ctcattgctg aactctggat ggcactggtg 360
cgttcaaggc aatgtgattg aatcattggg gattattact gaattaggga gcaaagtatt 420
cttatggaag ctgtatgctt tctgaggctc accaggccgg atggcatgag ccctatcctc 480
tgtttgagtt atttgactgg ctttttaagg gagtctccat tttcattctg gccatgacag 540
atcaagaggt tatattctcc catcagacct tactactttc ctgtagagtt gaatattatt 600
ctgattttat gccatgtctg tgaatgtctt tgtgtgcacc ctacctagtt atgcatctcc 660
tctttcaaaa gcatgttaaa agatccaata gtaaatgatt ctgcttatat gaagctacta 720
aagtagtcaa attcatagaa agtagaatgg gtgg 754

<210> 3791
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3791
gnnccntttt gaatncacat acangctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg aggttactga tggagagagc agagaagctg gtgtttgcag tcccatctgt 120
cagccttgac acccctactc ctgtccagcc agtgtttctc aaagcgtgct gatgagcaat 180
gcaagatgat ttcatgttat agataagaat aaaaaaattg ttttgtgttt aactcaaatt 240
agaaaaaggc aacaattggt atgtgcgacc tgtggttttg cagatgatac tgcttaggat 300
gttggtactt aagaaaaggt caacttttca aaaatactat tagtgacatg tggacctagt 360
cctcctgaag aggactacat tggggcaccg gtaattgttt ctatttgcgg tactctggct 420
gtgtggctct ggccacgcca ctggaggcag tgtctgagcc tgtgacttga gtagtagctc 480
tgtgtcatgt ctgctgattc tccccaaatc ctgaagattc atgatgaagt gactgccggc 540
ttggtctgaa ctagattgaa aacaataagg atcccagaac gatagcactt tacaatccta 600
taattttggc tcaaattgcc tgcagttact atcttaaccc tgcctgttat gttcattgag 660
caccaaagtt tttcagtcaa ttcctgagta attattctct gggattgaat tatgaaatag 720
taaatatttc cactatgcaa tcaattggtg 750

<210> 3792
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3792
gncnttttga ttccatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagcaa gaattgctgc tgctgttttt tttttaattt tatttttttat ttttaaagac 120
tttcctacct tctcattgag agagagaaag atgcccagag ttaaaatagg aggtgcttgg 180
gtattttgtt gaacttcaca agttaaactg gcgaatggcg tccatcagct gttattcagt 240
ccttgaacag agcagatatg tttgtgcgag gacaaagaag atgcctcaaa gacaaagaag 300
aagatgcctc gtcgtcccct gagctcccac acggcatctg cacatcacca gctcagcatt 360
tagcacactg gattgacact gccatgttag gtgaggtgac ggcatgccct agagtgaagg 420
aatctacagc aatatgatag ctaaatgcca catgaagttc tggattggat cctggattgg 480
gaaaaaacat ggctctaaag ggcagtattg ggacaattgg tgaaatttaa atgtagtcta 540
tgtattangg gataatgctg ttatcaatta tacatttcct tctgttataa ttgtccttgg 600
tcacaccagg aaatgtcctt attaggagac gcatgcagaa gtcttttagg gatgaggact 660
tactgcagct tattctcaaa tgtttatata taaggtgaca aaaattaaga aattggtcaa 720
tcttggtgaa aagtttatga agagtaaagt 750

<210> 3793
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3793
ngncnntttg aatnccttta cangctactt gttcttttg caggatccca tcgattcgaa 60
ttcggcacga gcctaggcgt agtcatttct ttattagtcc ttactttatt tttcaaagtt 120
acgtaataaa tgtctatgtt tctaagctat ctttagattt gtaaaagggc taaaatgtta 180
cttttaaaca tgtttggttt attcaaattt gtttataaat ctctcctttg tacccctggc 240
taccacccct ccccactcct ctgcctaaaa ctaagggaaa atcctgtctt tgcccatagc 300

ttcagaatgt tctgcaattt tagactttta cttttaactg atcactgtta agcaagggag 360
gaaatttacc acttctcttt gtgatgtaat attgcacagt gaccctaagt ggaagccttc 420
ctgtgtcctg gatgtgagct ctgcgctgtc agtggttggc ttgtaagctc tggctccaag 480
tgttctgagg tgcaaggaac cgatcttgtg cagtagaaag agcttttgga agttggcaag 540
tagcaaggct agttctcata cattctatgc tctggccacc tttttctgtg gcaggaaaac 600
aaaacaggca aatgcacaca aactgggtac atttaacttt gcctcctgag ccatctncca 660
agccatttag ctttggatgg cctcaatttg gaacaaggga acaaacaaaa tcatgatgat 720
aacgatgatg accccagtcg tccttactaa t 751

<210> 3794
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3794
gncnnttgan ttcnatacag ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagatt gcttctgttt taatggtaat ttgtctaatt gtaaaaatac cgaagtagtg 120
attccaagtt agaaagtagt gatccctaag aacagttgga gaaacatatg gtttgttcta 180
tagctgtaag cggtaatttt gaagcaattt tgaaagcatt ctttcccttt aagaaaaaaa 240
tagtttctta ctgaaatgac tttttaggat gtcttgaaaa acgtagtgaa attcatctag 300
aaacttacaa ggttgatgct agccatcaca tgcatgctgc aatttgctga aatgtcttga 360
tccaggggag ctaaactttt acaaaaatag gtttgtttag aagtcatatc actacatgaa 420
aaatcaccac ttttgaaact tacggttaaa ggcagtttct cttttaaaaa tgtgctcatt 480
gattattccc acccaaatag ccagaatatt ttgtaattac ccattaccac tcctaccatc 540
tgaaacgtgc atgaaaaaaa tgaaaaattg acttcatctg aaaagagttg tgtcatgata 600
tatgaaacgt tttttgtaac ctccaggaag gaacattgca atttttccat ttcagatcgc 660
ctttgttttg ccattctcta cagcagacca aagagtgcat caaatgtaca ttatttcagc 720
atagataatg acttgaatat gagaagtaa 749

<210> 3795
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3795
gnnntttgat tcccntacan actacttgtt ctttttgcag gatcccatcg attcgaaaaa 60
aacaaaaatt cccataaaaa aaatagatgt ttctnacatg ttgagcatat atggatttca 120
tttttaatat gattgtagaa acattagatt taaagcatat tgaaaaagaa aacagtatat 180
tctttaggag cttcaaaaaa gggttttggt ttagttcaaa gggtgaaaga agatctttta 240
ttattttggt aaataacttc taaggaaaca aaccaccctc acatgcacta tctcatttgt 300
atttctgtca attctgaaag gccagcattt ggccagtatt atttgaatct gtattgtatt 360
ttttaaccag aagaatgaag gtttatagct tcattctttt ggaagaggag gctggagacc 420
acaggttaaa tgcaggtgca tcgctcttgg ccggccctgg cagggtcctt tctccctcct 480
tttacacgcg cagacaaagc ttgtggatgc tcaataagga cagctgccgt ttggacagag 540
attaatcatt tatttgtgaa ggtttttttct gccttgcttt cttggtcttt tttaaatctt 600
cacattggtt tgatcccaaa atgtttgtgt tgtccttact caaaactagg aaaaacaaat 660

tatgtggtaa gaagctcaga gccacttact taaatctcaa ctagatttat ttgtgagaac 720
atctgttttc tggatattta nacacttcct ctt 753

<210> 3796
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3796
gnncnntttn aatnncnata caagctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gacagcattc gctgaccatt ctcctcctcc acccaccaag gacaggaggg 120
ctaacccagg cagagaacct acgctgagaa ctcaccacca gaaaaaatat ctgcttttaa 180
aagcacagtg cacaatagta ctttttaaaa gctaaaagag ctaagtttaa agttaaagac 240
acgtatgttc tttgacacag atctcctaaa agtctgacaa aattagaagt accagcacat 300
aaaaatagat gcccaagaat gtttattgaa aaaagctgaa aacccatgac tatctcaata 360
ggacaatgac aggatacaca atggtttatc atgccctgac ctgcgagcag tgaccaagaa 420
ggagggcaca gatcacacag cagacagaca gatgctctga ggcttacgat ggggttatat 480
catgatgagc ccattggaag ttgaaaatgc cgtaagtgaa aagtgcatgg caaactggga 540
gctgctgccg ctgctgctgc ccacatcaca agagaagtac agtttctgaa tgtctattgc 600
ttttgcacca ttgtaaaaag ccacaaaatc atataggtcg aaccattaag tcagagaccc 660
tctgtgcata gacttggcat tggcccatga caagtgaaaa gagtaagcta cagaataata 720
ttcatccatt cttcattttt ataaaaccac ttttt 755

<210> 3797
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3797
aggnttnntt tntgactcat gcttggnnta ntngttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggttacc tgggggggcnt ntgggacgtc aacagccaga tgctgacggt 120
gctcagagcc ttcccttgtc ggagccggct cggggacgca gagactgcag ctgccatcga 180
agaggagatc taccagagcc tgttcctgcg gggcctgtcc ctggtgggct ggtaccacag 240
ccacccacac agcccggcgc tgccatctct gcaggacatc gacgcacaga tggactacca 300
gctgcggctg cagggctcca gcaatggctt ccagccctgc ctcgccctgc tctgctcccc 360
ttactattct ggcaacccag gccccgagtc caagatctcg cctttctggg tgatgcctcc 420
tcccgagcaa aggcccagtg actatggcat ccccatggat gtggagatgg cctacgtcca 480
ggacagcttc ctgaccaatg acatccttca cgagatgatg ctgctggtgg agttctacaa 540
gggttcccct gacctcgtga ggctccagga accctggacc aggagcacac ctactngaca 600
agcttaagat ctccttggcc agcaggacgc ccaaggacca gacctgtgtc aacgtnctgg 660
aacaagtgtg ccggcgtnct tcaagcangg gaactgacct ttcaaggcaa ggtgggcttc 720
aattgtcttg aaggtccgga tggct 745

<210> 3798
<211> 784
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 3798
nggccntttt tgaaaaccct tttcaaacta cntgttcttt ttgcaggatc ccatcgattc 60
ggaaatccct ctcctgacca cttgtcagaa atcagaaagt gtggaagaag aaaatattag 120
ttacctaaat gagagttctg gggaagagtg ggattcctct gaagaagagg actctatggt 180
gcccaactta tcgcctcttg agagtcttgc ctggcaggtt aagtgccttt taaaatattc 240
cacaacttgg aaacctttaa atcctaattc ctggttgtat catgctaaac tgttggatcc 300
aagcacacca gtccatatac ttcgagagat aggtctaaga ctctcccatt gttcccattg 360
tgtccccaaa ctggaaccaa ttcctgaatg gccccctctg gcctcttgtg gagtcccacc 420
ttttcaaaag cctcttacaa gtcccagccg gctctctaga gatcatgcca ctctaaatgg 480
agcactgcaa tttgccacca aacagctaag ccgaacattg agtagagcca ctcccatacc 540
tgaataccta aaacagatcc ctaattcatg tgtttctggg tgttgctgtg gctggctgac 600
taaaanagtt aangaaacaa cttgtactga ccccattaac actantttat ttttacattg 660
gncttccaaa agggcaggtt naacaaactc cntaacttgg anttccttgg aaaaaaaccn 720
nccntttggc ctctgaanat ctnnngnngn gggctaaatt gganaaaagn gggtcccaaa 780
attt 784

<210> 3799
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3799
gcnnttnatt anatcagcta cttgttcttt ttgcaggatc cctcgattcg aattcggcac 60
gaggacaaag caaaacatca acattaagtc ataggctagg attatacaaa tgagaacccc 120
caccttatac attacttaat ataagttaac tacaaagagc ctctccactt acatttttat 180
catgcatctt acattttaat gtccttattc ttttatagaa aaggtcataa tacccaataa 240
aaaagaatct gtaatatccc tgatgcagca acaattgatc acatgctttc acatgtgacc 300
acaataggaa taaaataaca gcgtaaagaa atttgaaagt tgtattacat cattattcac 360
tgttcaaaaa tttttttcaa gaaacaagta cactttcaat gaaattacaa tgcttcagaa 420
aatctccctt ttaaagttat atacaaaaac agctttagtt gtggattcat ttttatactc 480
aatactctga tttagtgtaa tgtctgaagt gtcagtgcct tattctagtg taaattctca 540
tatttacgta aaatcaattt tgaattaaat attttttttca tatttacatc tgcaaaaata 600
tactttagta taaactctct gatgttttct aagctataga ttttgaaaaa aaaagtcttt 660
ccaaattcat tatatttgca ggactcttct ncaatataaa ttccatgatg tggaataaag 720
ctggagcaac tgcttcangt tttcctctag 750

<210> 3800
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)

<223> n = A,T,C or G

<400> 3800
gaaattcata canctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
atctgttact acttcagaaa ttgctggttg atgttaggcc cctcctatct gtgctctctc 120
agctacagtt tcccgtttga gcatattcat tctttttttat ttttgctctg aacaaaaata 180
ttagagttac aatattacta tattccaggc cttgctagaa actggggata aatctatgaa 240
tatggtcgct tccctggaag acctcacagt ccagggaagc caaaccctgc agacatgcag 300
tagacttagt ggtctctctt aaggttgctt gttgagtttt gacattggag attatgtaca 360
gacttgaatg actagttagc ctcaggcaca gcattctgtt tggcnttggg gggggggggn 420
aantactgcc tctcagcctg ggcaagtcac ttagagatcg cctcgtcact ctnccatcct 480
ttgctgatgc ctctggtcta ntacctctga ctcagcttcg cctttagaga tactcatgct 540
ttctggcaac agaggtcctt caaaccccaa ttcctattaa aacttccatc acttaccgcc 600
cttctttttc aaggggacca agccagnttt attnccccca ttttnccagg tnacttggtc 660
ccttgggccc aanaatgtgg tggaaaattt ttggggcaaa attccccntt ttttcccttn 720
ttttttnttg ggancttcna nn 742

<210> 3801
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 3801
gntnaatttc aaagacgctn ttgttctntt ngatgntcnn ancgactcta nttcngcacg 60
agtggcagtg ggagtcgaag cgagggtctg aagttcacga ctactagaag gggaggggag 120
tggaaaggct ctcagtgaaa aangtattan aattatttct gaattatcag tctctcattt 180
gtgctttgga gaagcanaaa aggcaaaagg ggtctttggc catcttctgc tggagcttcc 240
agggaggatg tgtctccaan agaccagatg tccgagtttg aaatcccaga acccangagg 300
aaaagaatca cagggaggaa aagactgtcc aaaggctcct ggagtcttct gttctctaac 360
cttggaangt tttgaacaat atttctcana ngatagccct ttttttccaa cctttttttt 420
ttntcatctg tccagcatga ctcatccccc gggagtggtt gaatgtcttg tctttcaccc 480
aagaaaggac ggacttttgc attgggcttg taaatttggc ccactggttg cttaatggga 540
agtaaaaaaa agagtcnttg cttaccatgc cggggaacct anaaattacc atcactggcg 600
ttttttttngc ttttggttct tcaatggggt tggtagggtt attgaaatta tttantttnc 660
caaanaaata aaaaaatggg atttttaaaa aaaatttttc atcccccggn nnaantttttt 720
ngnnnnnngn nttggaanng ncnnngcncn ntattnannc tttnnnnttt nnnnnccntt 780
ttttt 785

<210> 3802
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3802
gttgantttg aancctctt gttcttttgg aaggctccca tcgattcgaa ttcggcacga 60
gagatgttat aaaatgtgta ggcttttaat atataagtta tttgggctcc tttgttttgg 120

gcatacttna aacagaagaa aacccccttct gggggcagaa aagctagaac tggatatcac 180
agttccctct gggtgggctg ctatgtgtca attcgatctc cttaaaagaa aatngtggta 240
gcctaaaata gggtctttct ttaccacaag ttagatccct ggcagcaatc tacttctcga 300
aacagaataa ccattcaact atgacagcta tcttaaaatc atagactgta aataatattg 360
gggcacttct acatatcata gaaaataatg tttcaaccag aaaacatctt acctttttaa 420
agctttccnc ccccctaaag aaagacatcc aatagaagtt gccacttctc catttatcaa 480
aagtaaaatc tacttccatg taggnccggc nacttctttt taccttncag tcaattctta 540
actatttaaa gactaaaaca aaataactta tctgnntttc cattttacta cagtaaatgg 600
gtattaaaaa tagttcacat ggcttttctt tttaaattca aaagggtatt aacctgggat 660
ggtggaaaaa cccaccttta nccacacctc cttaaaaata ccttaacctt aacttnctta 720
aaaccaattt acccaganca actnggggge t 751

<210> 3803
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3803
cttaattcca tcagctactt gttctttgna agcattccat cgattcgaat ttcggcacga 60
ggccatcctt ctctctggct gtagactgag gcttttctct tgcttcaagt cagagcagna 120
tttgttgatn acctnncaat aatgtttggn nnacatgcca ntnattaaat taattcaaca 180
tgaagttgaa tttgatgaaa gtggtcatcg tatccangta ttnggctttt gaangttttg 240
cangtnaatg gagatggaac tcnccctgnc acacacnctg aactncantg gtgcaatctt 300
tgnctcactg caacctccgn cactgggctg gagcaattcc cctgcctcan ccttnaanta 360
gctggaatta caggcatgtg tcaccananc ccgggggtta aaattntttn ttttnatttg 420
aggaaaagcn gggtcaccat gtaggcatgc tggtntcnaa cccctgacct nangtgatcc 480
acctgncntt ggccttcaag gngctgggat tacaagctta aancaccatg tcagccagcc 540
aagtattngg nttttnaaaa atttgannтt tcntttgcgc aaagggaata naattttcct 600
nctgggtnaa aaagaaacct tttnaaagcc cnccccttntt ttcaaaanaa aaaattttaa 660
anttcntttt gggnggtaaa acctggcctt naaaaccccc ttnacttggg caaaataaat 720
tttaattttt ttnccccctt tnanttttтn 750

<210> 3804
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 3804
ttnatttcga nacnnctctt gttctttttg caggcatccc atcgattcgc ccagctacat 60
gggaggctga ggcaggagna atcacttgaa cctgngaggt ggaggttgca gtgagccaag 120
attgcgccat gcctgcagcc tggcacggcc agngnctcct tgtcaaaaaa aaaaaattaa 180
tnaatgcctt tggctaaacg taaaagcntt tnttggacca ncttaatgct taaaatctgt 240
tttngttcca ggtgggttgt taacagggac tcatttтttt ggtcttggat anggatcccg 300
gctactcaaa cagaaaatgg aaggaggaat ctggttaaag aaaacaccag tntccagaat 360
ggtgaagntt tggnaagaaa actcctttct tgctcaaaga aaaatttaaa aggttnggnc 420
cttttcccaa aaaancccna cacttтttтt tttcttgant gaangggctt taaaatttct 480

tnggaaatag ttttaccaaa aatgggattt aaaaaaatcc taccgatcaa gatgagttca 540
gctagnaagt cntnccncct caggatcagc ttaagtattt tacttgattt ttttaccaaa 600
tcaatgcncg tacctacctt aatccttnaa ataagtttan aatttaccta accccaaagt 660
ccaggagggt gttnttacca aaaaatagct ttntcaaggg ctggcnccta a 711

<210> 3805
<211> 668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(668)
<223> n = A,T,C or G

<400> 3805
tganttcaat ccgctcttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
gtggtcatcc ctaccttgtt cctaatctta gggagaaaga atttgtcttt caatgagtaa 120
gtctgatgtt acctntggga ttttttggtn natgctcttt atgtgtttga ggaaaatcct 180
gtctactcta gtttttagga aggangnccc tngaatcggt gttgnatact ntggcgatat 240
canaatngct atggnnggng ncnngnttat ncncattaag ctcggaaata ngtggtggtg 300
cgacatcaca atgaccnata cantactgna ngggccctag cnnccaatcc ttanggttcc 360
nnncatttnt tctggctcng aatcaactgc atggncantn ngccccccna nnngaantan 420
ggaaggannn tcacataggt acatgtgact atccttactn aatctggctn taaaaacatg 480
gtcctnnaca tnaacatntt anancatact ttgcagatnt ttgcggnctg cnctgaaatg 540
tcccataaac aacntnntta cttnanggaa aaaanatact ccatgggggn naaanaacca 600
tggaggaang aaggnaaagg gccccncatg ccnctgcang tttancaagg gcagnttatt 660
tattctta 668

<210> 3806
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 3806
tgatttccat nnngntacnt gtctttntgc aggatcccat cgattcgaat tcggcacgag 60
gactagaaag aggccctgcc ctctagaaag ctcagatctt ggcttctgtt actcatactc 120
gggtgggctc cttatcagat gcctaaaacn tnttgcctaa agctcgatgg gttctggagg 180
acagtgtggg cttgncacag gcctacagtc tgagggaggg gagtgggagt ctcatcaanc 240
tnttnggtct tggcnttatg gcnaccactg ctcacccttc aacatgcctg gtttacgcac 300
natcttgntc atgggaagag gtnggtggna gactctcana gctcaagatg ctnagagaga 360
aagntccctg aactgggccc atctgacttt ctacctaccc cattggtttt tttggcncct 420
tttntcccac tcaatanctt ctggcagnat nctcctgagc cacatgtgcc angtactgga 480
aaaacctnca tctttggcnt cccaagagct ntanggactc ttcatcagca ctagatttgc 540
ctcntctaag tntctatgan ctcgcaccat atttnataaa ttgggaatgg ggtttggggt 600
atttatgcnn ncctataaaa actatactga gtcgtntttc gnananncaa nacnttataa 660
gnatncattt gatnnnanttt ggnccccccc ccttcttana attnggn 707

<210> 3807
<211> 698
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

<400> 3807
ttanttccat acagctcttg tctttgtgca ngatcccatc gattcgaatt cggcacgagg 60
tttgtataaa ggttgtcagt ttaatattca agcaattaat aaagacaagg tgtgagtttt 120
tctgttaatg cacctctgtc tttaatgtgg aancaccgta taaccatgca tcttaccata 180
attggggtgc atgtctgtgg tacatgggca caaacatttt tctttcagcc ttgtaatcac 240
atctccaagt aatctaagca aaaaagaagc aaaatctaag ccagtggaca tgctganggc 300
tatcttaagg gcttctggaa tgacaaaggc cagaaatcca tcttcatatc attttttttt 360
tttttggaat cnaggtcttg ctattgttgc ccaagcttaa aaaaattggc ccgggggggn 420
ngcttttcna ggngcnanat agttaatgna tcctttaacc tcctggggtt aaanganccc 480
cctgcctcaa nccttttggg gaacttggga cccaaggngc nccnccccac ctgggaantt 540
taaaagcatt tttatataaa aaggggaagg tgggctgtng nctttcctn tttacctttn 600
aaacccggga atcaaaaaan aaggggcaag nggggatttc gggccataca agccngggtt 660
tggggtccct gggggggaaca ttttttttt ttttttta 698

<210> 3808
<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(639)
<223> n = A,T,C or G

<400> 3808
ttccatcngc tcttgttttt tgcaggatcc ctcgattcga attcggcacg agacactggg 60
ctcaggggct gagccattgt tgggtgctat tacttgtgtt gggaaccaat anggaacaga 120
aaacaancaa aacactaacc agagaancgg gcttattgaa tnctttgcac ctaagaagat 180
taagaggaaa aggaggaggt tagagttggt gccntctgct cctccggtgt ctgagtgttg 240
ataagaaaga tagatgttag anggtagcag aattgtgttg caagaattaa agccaccagc 300
agatgagact tggaccctaa ccaattcccc aggagaacct gtgaaaaatt aatgtcttga 360
agtaatggac atcaaaagga gcacttattt tttggaattt ggnaaaangc tctagatcct 420
taggaggatc tattttgctc atttgnnggt gagaaactan attcaaagag ataagtactt 480
gctcatcatt agtatggcag agccaaatca actagatgta acntgtctta aacaccgact 540
gtaatgnaat ctataactnt actggagatc tncaataaca gcctcagtga ccttgaaacc 600
cncagtngtt agtaaatatc ctggttttcc tgatttagc 639

<210> 3809
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 3809
nntttgaant ccaatanata tatngctant tgtgcttnat gccntangat tcgaattcgg 60

cacgagccta cctcaccagg ttgtcgtggg gagtgaacaa ggtgagtggc cctcacctac 120
agactcaaca tatggccttt ggctcttccc acttccaaga gtcttggaag ggatgggtcg 180
agcaagcaga ggaaaggaag atgtgagttc ccaaaatgct cctcaccttt ttcttctgag 240
tgggctcctt ctcactgcat tggagggctt gcggcgcanc atggtcctcc accctgggag 300
actccgtccc tgctctctta ggtgtcaaga tcagaggcct cttgcttacc taccagactg 360
cccgggggca cggcatgaac cgagccttca gcttgccaac nttcnttggg aaccntttg 420
gnntgaattg caanttgggg gtgcnggcca tggacacccc ggcagcaacc agcatacaag 480
aagcccttgn cacgtgacct actcttacag caatcgcagc cctgccggcc ctanggagga 540
aggaagtcca acttcagtct cagagattct gatgcagtat atcaattgng ggttggctgt 600
ggccaagaat ttttaataac ttttnaaata acctttcttt gggtatttac caaaaagccn 660
aacttggtan tttggtcaat acaaattttt caccaaaacc ccctttaaan ccaaaaaaaa 720
aaatttt 727

<210> 3810
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 3810
nttcnntttg aanccttaca nctcttgttc ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggtcg tcggttttct gagggtactt cagctgacag agagattcag agaacgttaa 120
tggaggtaat atttggtaaa gggggtttat aaagaaacca atgtttatta aatgaagaac 180
tgaacattgc atatttgata gtcaaaatat atagaacatt ttaaatgaaa tatgaaattt 240
gaaaatattg tcaggaacaa acatgtttct ctatcacaaa ctctaagaaa atgactactg 300
gaaaataagg ctatctgcca aattccattt ggtatacacc tgtactattc tgtgtttttt 360
gagtagatca gtcattcata tatttaaatt cttatgaatg tggaatcctt ttgggccgnn 420
gcgagttatg aagacatttt tgnnatggca tattaagact gttggcaata aatgagctta 480
attatgtatg aagctgctct aaaaattatt ttttctctca ctttattgct gagactgagg 540
caactnaaat agntttgata attggaagan gatnnatgac agaatgaaaa gaatgcctta 600
aaggnccttt ccttccnagt ttttaccctt tcccccactt cccaaaaatt cttntggaaa 660
aggtggaatn ttcaaaaaat tnccaaanta ccatttttc ccacctttca aaattgggaa 720
aacntagg 728

<210> 3811
<211> 931
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(931)
<223> n = A,T,C or G

<400> 3811
gnntnannac ngaaactntt naactcctgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg tggctgttaa gaaaacantg gtttttttctt ttaaggtgat catttcatgt 120
tcctatggta tggatgcatg tagacctttt angaaacagt taatgaagtt taatctgctt 180
atgtggaagg aaaaggtttg aatggaaaag gcttcttggc atgcaacgga anccgccctg 240
cttttccccc gatgtgtcta tttaggaaca tttctgtgac acttgccttg gcgtctgcaa 300
cctgctacgt ngctccttga tgganggaan aagcctggcc gtggtanagg gaaagctgag 360
ctctgttggg aaaatgagag ttcctattgg agaaatgcct ctgggcaacn tgnctggcct 420

ttnccnnaaa ngtttggggg ccgacatagg ctgtgtacaa gccanagtcn aaggtattaa 480
aacctaacca gccantgcag aagtcagntt gggaggttcc nggaaagtgc ctaaactaag 540
gcccnaaaag gaccaaangg gcccggcncc cccaggggta nttaaaaaaa ttaaaaaaaa 600
tccanccccc ccaaaggncc cttaattntt ncaantttct cccctgggcc ccttaattcc 660
ccaattcctt tngggncctt tnggggggaag agcccnttna aaatttttngg gcccancccc 720
cctttttggg ccntttnaaa aaaaaggngt gggnaaangg gggnttttct ttttttgggg 780
nccttttccaa attgggggna aaaaaagggc ccttgggccc cctttaaaaa gggggggccc 840
ttggggtnaa nccttttccaa ccntttaatt tccccccccaa nttttaaatt ttttgncccc 900
tttaattttn aaaaatncct tnccccccat n 931

<210> 3812
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 3812
gggccntncg tnaacccttt gaaactaccc gnnctttttg caggatccca tcgattcgaa 60
ttcggcacga gnaaagaact caaagggcag caatncnttt aagtaaggaa accagttagg 120
agataattgt ggtaatccag ggaaagaaag atggcagttt atactggggc attgccagtg 180
tggatagaaa tagatctcag aagaatttta ggaagtagaa gtggcaaaac ttggtgactg 240
aattgtgagg gcagaagtgg gagaaatcaa ggatagagtt tcttaaacaa gctttggtga 300
agacagggac taccctattt gctgtcatgt atccacagct tagcacaaat ctttatacgc 360
tggagatgct tgataagtac cgagtgaaat tttctggctt gagtacccan ataaatggga 420
tgccagtctc tgatttaggt aacacagagg cagactcact tgggaggtaa ctggtgattc 480
anttttaaac atgtctagct caacatgcct gtgaaacata cacatgacaa tgtccagata 540
cattggcaat tnggatgaat tgatttctgn aactcaanaa agagaggtct gagatgggat 600
tctttgcata ccttaccaaa aaaaaaaagg tttntgtttn tttngnaant naacncgntt 660
ttntggccnt gttaatccca ntnnctttng gggaggccna ngnncggggg ngtnnnccna 720
agggntcngg nntttaanan ccntccccan cccaaaatag ggngnaaaac ccttttttt 780
tttaaaaaaa aaccttcn 798

<210> 3813
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3813
atganncttt tacaanctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggagaatc ttatattttt aaaattgtcc ctatgttaaa tccagatggt gtcatcaatg 120
gaaatcatcg ctgttcttta agtggagagg atttgaatag gcagtggcaa agtccaagtc 180
cggatttaca tcctacaatt taccatgcta aggggctgtt gcaatacttg gctgcagtga 240
accgtttacc cttggtttat tgtgattatc atggccattc ccgaaagaag aatgtattta 300
tgtatggttg cagcatcaaa gagacagtgt ggcataccaa tgataatgca acttcatgtg 360
atgttgtgga ggatacggga tacaggacat tgcctaagat actgagccat atcgccccag 420
cattttgcat gagcagctgt agcttcgtag tggaaaaatc taaag 465

<210> 3814
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(516)
<223> n = A,T,C or G

<400> 3814
ttcatttann ctnttttttt gcaggatccc tcgattcgga agagcttctg caggggctga 60
gcagacccca gggcctctta gccaatcccc gggcctggtg aagcaggcga ancatatggt 120
cggaggccng caactacctg nacttgccgn caagagtggg caatcttttn tgtctctcgg 180
gaangnccca annctcctcc cccaanttga nanaaaaagn aagttntggt naacccancn 240
taagccataa gttcccctgg ggcccctggg ganaaagnct tcaatcacng ggccaagggc 300
ttctggnccc cattnattgn cttggacaag aactctgggt cacaagtctt gctnggtctt 360
gctggggaan cccnaccnga cattgggccn cagacttgct ggtcttnttg ggaagaaggg 420
caagacccca aaccaagatc caaaatacac ttncagctct taaccaaggc ttnctttcaa 480
gtcacaagtt gttgccngaa atcagtaaca agaagt 516

<210> 3815
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 3815
attcattnca cnnctggttc tttntgcnag atccctcgat tcgaattcgg cncgagagct 60
gggggtgact acagctcacc tgcagctggt gagcaacttc aangcgtgag acccaggtgg 120
gccgggcctg gacccctgtg ccatggcaac nntgatattn cagangtntg nnntangcnc 180
atnactgtnn nnggtnnttn tctaggnngc cttaanttan cacatcnnnn tncttcgnta 240
gnnnaaatgn cctcntatna gcatnccttc cttcnctgan tgntnnatga gagcatgatn 300
tataatgcct gaaagancct gggtnngnga ttatnnntna gttaataaat nattctnanc 360
actatcacat gntgantgcc ctnctnacnc ncctngngna aagagaanac tgacaannng 420
gnntanttnt antncctngc caanancnnn gttaccagcc t 461

<210> 3816
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

<400> 3816
tntacgttca agctcttgct ctttttgcag gatcccatcg attcgatgcg cttattaggt 60
attttatctt tcaaaaatat atgtncccaa ctgtgtttgt ttgtttcctg actgtgaaca 120
ctgaagagga ctagatcaaa aatgaccaat tgagtagcaa ttgaacattt acagtgctgt 180
gtgcagtgaa cttctgtagc acccaaattg tggggttggg gaaaaaccat tccaccttaa 240

aagaaaacca agcctttctg gcaaaattgc tgattctagg ttttggccaa gaaatgtaca 300
tgctgactgg aacattgcat aacagttagt aaggaggctg ttaaagacta tttagggtca 360
tttcagaaag actggagaaa tgactgtaga attcccactg gcccagagat cnggtagaaa 420
cctgtgaagt gtgtttaaat tcttgagttc ataatgggta ttttaa 466

<210> 3817
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

<400> 3817
tgccntncag ctcttgttct ttttgcagga tcccatccga ttcgaattcg gcacgaggag 60
aaactgcatt ttgggggggt ttgaaatcca aagaatgcag tttgtaggca gtcgagatcc 120
ttgaaaaatc aagatggatt ttaataatgt attaagaata aattggattt gaatcaacac 180
aggaaacagg gattttactt agagactatt tcagtaattt tgaaatcatt gcccaagatt 240
gtagttggtt tgtttataat gggtaggtta tttatttgtg aatcccaaat gtnctccatc 300
aacattccat tgaataattt acaaaagcaa acagcagggg tttatgtttc tcttctccta 360
gttnaatatt gtggcagcat atcatacttt gttttagact aatttaacag gagttaatgt 420
ttccaagtaa atcattatta tctaaacagt gtctttttn 459

<210> 3818
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3818
nnntnnctan tcaagctact tgttcgcagg atcccatcga ttcgtnttca tncanggggt 60
anatgaaaag gcngaatgga ttttattnng agccgtgnga cgtgccgtca gaggctntct 120
gtncttcctc ctcacttcag cgcnnantgc cacncccaan aaacgggatt ctaccngnct 180
gnnngcncgt ccgnnctgct acctcnngtg cccatgcatc gnntntcacn ccaagaaaga 240
ggctnccttn ctcnnntnct tcattngtac atagacnaat cccaaaaaaa nnatgaacnt 300
nagcgcaaga gncnttgact cccagggaga tancgacngt agctcttctt cctcaaaata 360
atgcatgatg atgcngcata cacnttataa ccaaantatg ctngccttnt aagcnnacgn 420
ctgtccntcc nacactatna gaggcngaag cnnacntgat ctcct 465

<210> 3819
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 3819

tannatcctt ancnnnnnnc tacttgttct ttttgcagga tcccatcgat tcggcctaaa 60
attagagaat tatctgctca gtccttattc ctgcagaata caaatgtcac attctaacct 120
gttaagagat tgtcttcaaa ataaaactgt tattaactac attaatgtta gacaaagtac 180
actttagggc aaaaggcatt attagggata gatttcataa tgatagagtt ctatagtaga 240
atatagtaat gcaactgaac aaaatgaagc tcattccact gcatggaaga atctcacaga 300
tgtgatgctg aacaaaggaa gccacgtaca aacacttact atataatttt atgtacatca 360
agttcagaaa caggatagtt acctttggga aggaggtaac tgaaagagta tgaggagggg 420
tttctggtat ctggttaatg tactttgtac cagttaccca ggagtgttt 469

<210> 3820
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

<400> 3820
gatnccaatc anctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgaga 60
caaggacaag aaagaaagta cggttgcaac ggctggctcg catgcatgcc gacatgatgg 120
aggatgttga ngangtatat gccggngaca tntgtgcatt gtttggcatt gactgtgcta 180
gtggagacac attcacagac aaagccnaca gcngcctttc tatggagtca attnatgtnc 240
ctgatcctgt catttcaata ncaatgaagc cttctnacaa naacganctg gaaaactttt 300
canaangnat ngnccggttt accagagaag atnccncatt tnaagtatac tttgacactg 360
anaacnnnga gacagntctn tctggnatgg gagaattnca cctgcaaatc tatgctcana 420
ngctggaaag atgagntntg gctgncttgt ntcacaggaa ag 462

<210> 3821
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = A,T,C or G

<400> 3821
cttnnttaga tacagctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggattcatc ttcttgttct ttaaaagtca aaaggctttt tgacctttaa ataactctta 120
catctggtca tcactgttga aatgttctac taaattttca gagtggaaaa gttttaggct 180
taaaactgac tggtaaaaat agaatatttc tttgtattga tttttcagta tagctgtaca 240
gccagttatc cttcgttaag tgtttcggta ttaaaactgc tcacatttgt aaatattgag 300
cagctttatt gtcagaacaa gaatcccttg gtttcccaat ccccaacttt taacattgta 360
attaaacatc ctgtataacc tattttattc tctgccaaac aattttatga ctgctgtttt 420
tactctttgt gatgaaaatg ggatggagaa gataaggttc tttg 464

<210> 3822
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(463)
<223> n = A,T,C or G

<400> 3822
attncaatac aagctacttg ttctttttgc aggatcccat ccgattcgaa ttcggcacga 60
ggcantagct gtggggatgg agaaaagtgg acaaattaat tagagagatt tagaggcaga 120
ttggtgattg aattgagcag ggcagtgaga ggattcccag gtttctgact gaggtgtcta 180
agtggggatg gtgatgaaag ggggaatatt gggagaggat cacgtttgga gggagactaa 240
ggcaccatca gtattctaga gattagaggg ctgtgagaga attgtgatan gagggattta 300
ctctttggca gatatccaag cgtggaaggc ctgtttgatg gactgtcctt gataatcaca 360
ggcaggtata ncctcaaggc tttgaggatg gctctaaagt acatttcaaa caccacctcc 420
tccacaaagc ctttctacta caactccatc ccctgagtag agt 463

<210> 3823
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(470)
<223> n = A,T,C or G

<400> 3823
anaatacctt tacaagctac ttgttctttt tgcaggatcc catcgattcg nananataan 60
aangnnaaaa tncagcaatg gtncacaggc tnncncctaa nnnatctgcc tgctgncatc 120
agagccnatg tnctgggcnt nntntctggg gntacattat ttaggccant ntatcanggc 180
caacccctcc anctgnctan tagangccat gnccactngn taattcaagg gcccagctcc 240
aggnnngttt ncttctctng gggancatca gttnncttnt nnntaccacg ncattcccat 300
tngcatgttn tngccgctnn tcttaataga taatatnnaa accctnattn ctcncgctna 360
ctaantacca tcattnatnn agtaaaanat ctnanaaaag nngncaancn agnngntnnt 420
gatnctnctc ctcccctccc ccacctgtgt ttttaanaga caggattccn 470

<210> 3824
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3824
ttanttcnat acaagctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agaattcata aaaggagtta gttgcagtca tgtgtggcct tgtctagaag caaaaattat 120
aatatcaaaa gctctacgta tgaattgggc cttaatgtct ttgtactcat ttattctttt 180
attgaaaaaa agctctaaat gcctattttg tgtcacataa ttgagatttg ctttgaaatg 240
tctgattctt tactatagta ctatctgagt tgttcacagt ggtatggtga tccatactct 300
gaactgttcc attatctgga attaaaggca tataataaaa agaaatagac tgtatttagt 360
ttattctagt gtaataaatt gaaaagtaaa tagatgatta gaagcaagtg ttccaaataa 420
aaatttatca gcagtataac aattctatca ttcattccaa cttgg 465

<210> 3825
<211> 460
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(460)
<223> n = A,T,C or G

<400> 3825
cnttgnttcg atacagctac ttgttctttt tgcaggatcc ctcgattcga attcggcacg 60
aggagagtct cactctgttg ctcaggttgg agtgcaggca tgtgatcata gctcaccgaa 120
gcctcaacct cctgagctca agtgatcctc ttgccttacc tcccaagtag ctangaccac 180
aggtgggcat gaccacacct ggctaagctt aaaatttttc tgtatangtg gtgtctcact 240
atgttggcca nactggtctc agatgcctgg gctcatagcn gtcctcctgc ctcaaccttc 300
caaaggctgt tgattgttta aatacgaaaa antttagaan atatantttn acgcacttaa 360
ttnttagtct ggtgatatac catccaaaan gcntctnatg ctgggcacng ttgantcatg 420
cctattatnc cagcacttng ngaggccnan gcnggangat 460

<210> 3826
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3826
nncnntttga ttcnatacan ctacttgttc tttttgcagg atccctcgat tcgaattcgg 60
cacgaggctc aatcaatatt tattgagtgc ctacgacata tcaggctcag ttaggagctg 120
gggataaagc agtgaccaaa gcagacacag ttccttctcc agtgagatta taatccagat 180
gggataggct ataaataaag gaagaagtta acatatatca ggtggtggtt agtgctgctg 240
agaaaaatga aggaggggag agagaaaagg ggatgccaca aggctagggt agagagttct 300
gtttcataca gtggtaaagg aaggcctttg tgttgagtgc tttgctctgg aacgacttta 360
ggatggggaa gaggcccagg tggcacctag acatttgaaa gtaagggctg aggctgcatg 420
tctctaccta tattttcttt catgtttgcc tttcatggat tttttttcta tgtatctaga 480
attaaatata gaactagggt gaaatatccc tcaaaaatgg tatgggagca actattagaa 540
tgaataggac tcttggggcc aatgggatgg aatgtctgtt tctggtcaag aggattgatt 600
ttgatactgg aatagaatat tcacatatat cttcccattg cctgactnca atgggtgcct 660
agctttccat caaagtggga cttggtgagg tggggatgtg gatgcatatt aattaaggta 720
cagctggcac cggcttaaat agaagggaag g 751

<210> 3827
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 3827
tnncnttcan acangctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agaaacgacc acctttacga gaattctttg tcgatgactt tgaagaatta ttagaaggtg 120
agagaactct ttaccacacg tttcttccag atgctcctat ggtcccgtaa acaatgatat 180

```
ttttttctgc aaggctattt actttttaa gagcagtaat cgtggcattt gccgcatgat     240
gggaacccan gtagggagcg ggtgatgttc ccaggcagcc ttggtgtcgg caggtctcta     300
aacctggttg ttagtcgtcc tctgtgggag ttgattttgt tctgtgaccc aggtcaggtc     360
tctctctaag aactctgtaa gagtatagaa atacaagtaa agtataaaca tgtagaaaaa     420
caagtaaact ggggaaatcc ttcgctggca gcaaaactgg cgt                       463
```

<210> 3828
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3828

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gcnnttgntt nnatacanct acttgttctt tttgcaggat cccatcgatt cgaattcggc      60
acgaggagtt ctcttgtgtt ttactctttt tacagtgaaa ccagcagtgt gtgtagcagc     120
agtgacactg ggctctttac caatgatgaa gggcgacaag gtgatgacga acagagtgat     180
tggttctatg aaggagaatg tgtcccagga ttcactgtcc ctaatcttct gcccaagtgg     240
gctcctgatc attgttctga agtagaaaga atggattctg gattggataa attttcagat     300
tccacattcc ttttaccttc tcggccagct caaagagggt accatactcg cttgaatcgt     360
ctacctggag ctgcagctcg atgcctcaga aaggggcgaa gaagctggtt gggaaggtga     420
tacctctcac agttagcttg gctcagtggg gagataatat tccctatggg agttgtgtat     480
cctattaaca atcagaggtg ctacagaact ccctgaagtt aatggagcca actggaatgt     540
gttgggagtt tacaagagtg aacattatgt agcatgtgaa tggatataca aataaaagat     600
gaaacgtaat tcatatagaa gtactgacaa aaaaaaacac tgtcattaca gtgtctattg     660
cctgtaaacc tacaagcctg agctggtctt ctgtaacttt tgattaatgt tatgttatta     720
ttgggtaagt taaaatctct tggcttn                                        747
```

<210> 3829
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(468)
<223> n = A,T,C or G

<400> 3829

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tttccttttt gtaaacccta cttgttcttt ttgcaggatc ccatcgattc gaattcggca      60
cgaggtaaaa cacccctac agttccaatt ctgggcctgt cttctatcta tctttgccct     120
tctggtccgt tccctgttct gagccccagg gaacttangg ctgaaagtca cccccgaagc     180
ctcagaccag atcgggaggc cacacgcagc tcatggggac agagggccca gggtgacggt     240
ccactcatga gaagtgctat gtgactncag ggagtctgtc cctcttccgg gctccaatcc     300
ccagcccaag ctcagatgac ccagcctgtg tccctttagc ggccgangag ccaccacctg     360
ttcgggggct ggaggatggc ttccaganga cctgggacac tcacctagct cgttcatggc     420
acggcggtac tcctcatcaa aggacaagct tcataacagc acangtgg                  468
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<210> 3830
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

<400> 3830
cnttgatncn tatacancta ctcnanctct tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agggggtctc ttctactgtc ttattggacc ctagcagtgg ctctgagcca 120
gcagtcctgt cagttgattt cttggtcgtt cctttgtttt cttctataat cacatgtgga 180
ctcagaatga attttgagtt actctgaaat ctatttattc aacagatatt tacttagtac 240
ctcctattgc cagactctgc tttatgttgg atattatttt ttaaaagccc accttgccta 300
gatttcctca aaggaccagg tggcttccct ggttttgaaa gaccctaatt cttactatga 360
tcttaagtaa attatatcct ttctgtgggc tcaagttctt tctaagaggg ctctttgggg 420
ctacaaaaga aattgttagt gcaaaaagag tttataaggt ttataaa 467

<210> 3831
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 3831
tntttnanta ctnnaantcn natacangct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagccgag ctgacaagtc aactctaagc acttatctag aagactgtaa 120
atttgacaga gagcgaatag aactgttttg cacggaatat cagaataata agaattccct 180
agaaatccta ctgggaagta taggcagatc tctccctcat ataacggatg tttcttggcg 240
cttggaatat cagataaaga ccaatcaact tcataggatg tacagacctg catatttggt 300
gaccttaagt gtacagaaca ctgattcccc atcctatcca gagattagtt ttagttgcag 360
catggaacaa ttacaggact tggtggggaa acttaaagat gcttcgaaaa gcctggaaag 420
agcaactcag ttgtaacttg gggaagttaa cgatccgccc gagtgcagag g 471

<210> 3832
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(470)
<223> n = A,T,C or G

<400> 3832
tataccattt tgaattcnna tacaagctac ttgttctttt tgcaggatcc catcgattcg 60
ctgctaaaag gcggatagat gttcagttcc tccatgaaat gagatttagt tcccatgtaa 120
tggcattttc cataataact gctgatatca tcaaggtaaa gagagctgct tctcctaact 180
acccatgaaa gaatttagct ttttatattt ctacctctcc catatagttt aatctctccc 240
cactgcgagt atgactgact ccaaggtatt gaagtctgtg ctctaattgg gaattcaatg 300
aacaagactt cagtgaatga actttttag ccatattata taaaatgaaa aaggatctgc 360
tcctcatttc aatctcctgt acaattgctc ctgaacagta gtacagaatt gtagagatag 420
cacattatgc aacctggctt tttatctgag acatacttaa tgaaagcaca 470

<210> 3833

<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3833
ntccnttgga ttcgatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagccc ctgtgcccct tccccaggaa atcaagtcct aaggaataag agtttgttgg 120
acagagttga gccttggagg gacacaaaac attgtaatat ctaagatttt tttcatactc 180
tcccagaaag aaccaatttt caccctgggg tggcggggtg gtaaaattgc ccctgttcag 240
aatacatgct ctaataagcg gcagccatgg gattttatcc taatactgag tctagatgcc 300
aaatcttttt caccctgtct caaaacaaac aacaacaaca gcaaaaagat cactttggct 360
gtttttattt ttggctgtta tgtgaagaat gaattgcaat ggggcaagag tagaagcacc 420
aggagaaaag caaatgagtt ttgaataaat attttcccct atctt 465

<210> 3834
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 3834
tgccttttga ntacngntac aagctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag aaagcatgtg tgttgggggg tgcgtatcat tttaccatgt gataagcact 120
tttcataggt agcaaagaca cattatgtaa acttaggagg agggagagaa tgcaaatttg 180
catgtgaatt ttattttgat taatcgcttt ttttgctttt cagcaatgtt atttatgaac 240
aacaaaatta tagaaaaagt gagaaaaagt caattatcaa ttatttttctg atgaacaaca 300
acaaagacaa aaaaatggtg ggattgattt attttcccct gacagaattg attgtttctt 360
taggttctat gcaacttgca gactcactga gggtgaatgg aatgtgctga aaattcagcc 420
tgacttggca gctccaaggg acacacctca atgtagagaa agcaggaat 469

<210> 3835
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3835
cnncatntgg ntcccgttcc aagccacgag cccattttgc aggatcccat cgattcnaat 60
tcggcacgag gcacaggcca cggagagaga gaggccgggc ctggatgaag ccgtgggcgt 120
tggtgccgtg cgaggcccan catgcttgga ggaaaggtca ccgtggctgt caagtgctan 180
ccagggcnng agccgggctt gtgtttctcg ctcantntna nccatctntn atctgnttca 240
aagggnattc aaaannccng ggtcagattg tttcttggat tacnctgatc gtctggcctg 300
ccttatccac cctggaaagt tctaagcaga taatanntat gtggcatntc tgaggttttg 360

atgccccgag ccgtttacaa tatgcttccn gactgaaagc tgggccctga ntnnctnngc 420
tgagnnctac nttggaaacc acgttcccct cagnctcatt atcac 465

<210> 3836
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1039)
<223> n = A,T,C or G

<400> 3836
ccagccanaa nacngngana aaaggncnga cgnanacaga nnncgannnc gacgccngnn 60
gaanaagcan anancacccc cccaggcgtt ggaacccttc anagncgacg aaggcagacc 120
cacgancgaa ccggcacgag actgannaga ncnggcncga aaaagtgtgn gccatactga 180
gacccacggg cagccncncc gccnctacag ngncaggngg accagggaca ccncnggacn 240
gcgcannacn gagaannaag gaancnangg ccggcacgaa gggcaaggga gggannnctg 300
cacgggacgg canaacngca agccagcctn caagcnggca aganccagcc aggnggcggc 360
aaaaacaaga aacagcccga ggcncagccc ggcncncaac caggcccnaa ncaagaaaag 420
anaagcaccn gngcnggacg gcngnaccca cacaacgggc acgnaaaaag ggcngcccgc 480
gnggacacng cnnnncatng gaaaccaccn ccnggnaaaa ancaccanaa gggggccngc 540
anaaaacccg aacngggganc aagngccann cagnncgggn aaanaggang naaaaacngg 600
ccagnnngcn accgnggaaa aaaaaaacgn cnccnnnatn gncgcnncnn cnnncacggc 660
aananaccan agcgggacag acanngancg canacanang cgancggaga ananggaaag 720
aagggagaca aaacagcang anngacgaan anggnacacg cnacacgcac agcgangnng 780
nancaaaagn anncncngca nnannagngn gnangcaaaa naacgcgang agannagana 840
gnggacgcac nngcncacna ganggcgnnc ngacgnnncc ccaaaacgac nnacgnnnng 900
gagcaganaa cgacgcacna naaaggacgn anganncann nccgngaana aaggnagaaa 960
nngnngnacn anggcgacnc caggagacaa canangnnaa agcnaagccc cnagnacaaa 1020
agcaccaaaa naancnccg 1039

<210> 3837
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3837
gcnntttgat ntncatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagctg ccttccaaca aaatcgtcaa gcgggcagag gagttggtgg ggcaggagtt 120
gccttattcg ctgaccagtg acaactgcga gcacttcgtg aaccatctgc gctatggcgt 180
ctcccgcagt gaccaggtgc atcttcagcc tgcatcccct tcccaggagc caggccactc 240
cctcagctgc cagaggctgg gtccctgctg gggccagggt gggatggaaa tagacatgag 300
caagacaaaa tagcagatat gaaactgttg tccttgaggg tgtcacattt ggggtgggga 360
caagggtggg gagataggca agtcggcaat gtagaccagt gcagtgggtt ggggggtggc 420
cacagaaggg agtcacagcc tgaaacagcc ctccacagcc ctagaggccg gctttatgat 480
tcccacttta cagatgggga aactgaggct caccgtgctt aagtaacttg tccaaattca 540
ttaaactcct agttattgag tctctagtcc atgtcancca tggtgaagaa cgggggagtt 600
aaacctacat gtgttctctc caagggcccc gatcaaggaa agcttttgta gaaanangtc 660
acacccgagc ccacctgatt taattatttt gattaatctt gaaaaaaaaa tgaacctgga 720

gattaccagg gaaccggggg ccaataanga agtgtagct 759

<210> 3838
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3838
gncnntttga ttccatacan ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggca cgcagcaccc actcagcacc tcttagaaga tgcgtccgta gtatatagta 120
tgatttttcg aaggggattt tgctcatatt aagggttgct ttagggatgt ccaggaaggg 180
tcaggtaagg aatctttcaa tctgctttct aattggctta gttttcccac tgtcttcgca 240
aaaggacagg aatttccagg ttagtttgca gcttgtcttt catcaagcga aatgctcatg 300
ctgttgggta gatggtaata gaaacctttt gctaccttta tttatcaaga gttgtggagc 360
cgaggaaccg tgtcttggga gttgtgcagg attgaaactc acaaaaaagc ctgtttgaag 420
aagttgttac ctatatttat tcaaggcagt tcacaagcct tatactaact ttgcggggtc 480
tttcagttga gcttacatga ctgcgcttgg ctttgtgcct tggcagccaa catttgccat 540
gcaggaggct tcccagaaag gttcggattc ctcttcaagt ttgagaagcc tgactgagac 600
cattctcagc atggcatgac ccgtgaatca ggaagtgaga atctggagta ctgctaaggc 660
accttgtggg tggaaatgag ggtttgagat gccaaccctt ctgtgccttc ccacaacttc 720
caattgtttc cattgctcat ttgaccaacc t 751

<210> 3839
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3839
nccnnntgaa tncccntaca nactacttgt tctttttgca gggatcccat cgattcgaat 60
tcggcacgag atgaatttgt ctctgaggat attcaaagaa agcagcagta gtagtgttaa 120
agggtcccag ctaggccttt tcagttcttt cctatcattg ttaatgtaga caaccatttc 180
ccagattttt gagataaatc aatttattta tttgcaatat ttacatgcct acatggtttt 240
ttaaagttat tttaatgtat ttttaatgat taaaaaatta tgtcccgtat ttattagtca 300
ttcattactt accattattt gcatttaatc cttaaagcag aagtgtacaa aaaagagatt 360
aatgtaaagc aaatcaatga ggattgaagc aaattaattc tctcaaaata aatatgtagt 420
atctttagat aatttggcac ctgctgagtt tgtcaatctt agcaaactag gccatttaga 480
ggaaataatt ctgtctactt tttgagtgtg ttttttaatg cttttacttc tggtgtgggc 540
atgctggatt ttatatttct aaaaaccaat aaaatttgga aggcattgcc tctaaatgtt 600
acctaaaaaa tagaaaacac aacccntaaa tatgcctagt aattagcaca tattttattt 660
catagaaact gattcctggc tggcctggtg gctcacacct ggtaatccca acactttggg 720
angttgaagc agggggatgc ttgacccttg 750

<210> 3840
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 3840
nccntttgat nccntacanc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagatta gatactatag taggttaata atgactaaca ccttgtcatc tcatcactga 120
gcttttgtct aagatagtct ctgaatttag aactgggacg aaagtgtaca taataggcta 180
ttataaaatt tttagaattg gatttctaaa cttggggtca gtgaatctag caggcttaag 240
cagtgttctc aggtttttct ggcacagaca aggaatataa gaggaggaga gaaaaggaga 300
gacagtagtg ggagggaata gaatgagaga agatagaaaa tatggaatta atagagaaag 360
gatacatgaa gtattacaag attttcttgg aaaaattggc atttcagtga tggatcaaag 420
atgtctaatg aggcaaaatc tactattact taaatattta atgttttaaa gatttgagga 480
taaaaggata tagatctgat ggcgttcata ctaattgctg tagtgttgat gttggagaga 540
ggggtaatgt atcaagacag agcagacaga ccctttacaa tgagagcaga agatatgttg 600
tttactgatt ctactttccc acaaaatgct aatgctttta taagtccctc ctccntattt 660
tctagattaa ctccntgttt cttcctctaa accagangat tatggcagac aggcaaaaaa 720
aaaaaaaaaa aactcgagcc tttanaacta t 751

<210> 3841
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 3841
aaatacacaa caggcaagtg ccgtatacca ggaattgttc aaggagagca ggtagtttgt 60
cttatattct aacgtgggag aaagaaagca aataaattac atgaattgat taattgatca 120
gttgcatggc ttttagtata catttctgtc agtctgccaa ccagcacagg tcccttatta 180
gcatgggaga agggcctgat cactgaaagt attatagatt tatagagtat tgaaaggaaa 240
cttaaggaaa ttgggggcag tggcctttta gaaaacagcc taactccatc agtgacttct 300
gcttgcttgt gcctctcata tgtgatctgc tactggcctt tgttacttct ctctgaaata 360
acacaaaaat tatgtttagg gctctcattg acttcaactc caaaccatat gttacttctt 420
ttaaaaacat aatttctaaa aaaaaaaaaa aaaaactcga gcctctagaa ctatagtgag 480
tcgtattacg tagatccaga catgataaag atcattgatg agtttggaca accacaccta 540
gaatgcagtg aaaaaaatgc tttatttgtg aaatttgnga nctattgctt tatttgaacc 600
attataagct gcaataaaca agttaaccac caccattgca ttcattttat gttcaaggtt 660
caggggggagg nggtgggagg ttttttaatt ccgggccgcg gggcccatgc attgggcccg 720
gtccccactt ttggtncctt tagngngggt naatgccccc tggcgtaaac atgggcatag 780
ctggttcctg tggnaaatgg 800

<210> 3842
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = A,T,C or G

<400> 3842
ttatnctttg aaacacncta cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggaaaag gccccagaat gggctngctt gaactggaaa aacacacttt ctcatccctt 120
ttggaccacg agcttcttga gagcaaagca tgtgtttgat attcctttgc tcaccctcag 180
gccttgtttg gcaaattgcc tgggatacag aaaataagga caaggtctgg gtgtagtggc 240
ttatgcctgt aatcccacac tttgggtgac caaggcagga ggatctcttg aggccaggag 300
ttgcagacca gcctgggtaa catagtgaga ccttgtctct gcaacaaaat ttaaaaatta 360
gccagacttg gtggttccca cttgcaatcc cactatttgg gaggctgagg cgaaaggatc 420
acttgagcgc aggaatttaa ggctgctgtg agctatgatt gtgc 464

<210> 3843
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 3843
gaaatcttta tcanctactt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggctactcag gagactgggc aggaggattg cttgagccca ggaggttggg gcttcagtga 120
gccatattca caccactgcg ttccagcctg ggtgacagag caaggtgcta tctccaaaat 180
aaataaataa atgttaaatt tgctttttc tctctctctt tttttatgta gaatttgttt 240
gttgatactt actgaatgta gtgaccctgc tgtggtaatg aacacttcta gtgccttcta 300
ggcttaaaat accagacagc cccaaataac aaatgctctt ttgtgttttg ataggttgga 360
tttctgtttg cttaatattg ggaatactgg ggggaaaaaa gatggtgttt tcattctaag 420
gattgtccta aagaaagtgc tactttattt ttaagaaagt aaggccactt gttatataag 480
aaataacaag ttcccattgg gtcccatttt gcaaaagggg ataaagaatt agactgatag 540
catcatacga ggcatatttc actatacaaa gtgttgtcac ctgtctatac aactctccta 600
cccagcttga cctcactttt catacctgat gcagcaaaac aattcaatgc cataggagaa 660
ggaagcacat ggttataagt gactaacacg atattaggca atttgtccaa atttctcatt 720
ttctttatag gtaaagaaag cattcttatt tgattaaat 759

<210> 3844
<211> 954
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(954)
<223> n = A,T,C or G

<400> 3844
gggnnntttt tttggnnnaa aaantttttt ttnccccca nnaaaaantt tttntttggg 60
gnaaaaacca nnccccccct tttacctnng ggggaaaaac ccttttncnc cnnnggggcc 120
cnangggggn aaaaaccccc ccccaaancc cgggaaannt tncccggggg naaggcccaa 180
aaaaaanggg naaggaaact tngggnnntn ccctcggggg nngggaaaaa aaatgggaat 240
ggtaaaaatg ggggcccaag ganntaaccc aaggggncca aatgggggng gggggaaaag 300
aaaaaaagna aaggggggntn ncncctcccc taaaaacncc caccaanggg ggggaagcca 360
anggaanttt accccnnggg caagggaacc aataattaac ccttggaatt acccgnggnn 420
acccgggcat ctgggaaana nggnnnacnc atgtggagta naacaanggc ggctaatcaa 480
nccaaggggg ccaagngggg cacacatnca tncnngctcc tggaaccngc atatgcnatg 540
ctctcctcta gaacactngt ccattngcca ccggctcntc acatgaccaa ancctacatt 600

ggctccaaaa atcnccangt aaaatggcac ttccccaaag aaggggggaaa ttttnnaaaa 660
ccccccccng acgcaggcca aannggaccc cctgggctac ttaancanag ccatccccna 720
ncaanacttg gnagcactna aaagnagang gggggganaat anctgggncg gacaacacgg 780
cnactctngg gctcaggatt aagngggaaa gnggaanaaa ctggggttnt caggacngga 840
ntccaactct aancgggggg gttaaaggga aaaaattcnn ggactgaaag ggggngggan 900
gggggggaacn ggctccagaa aaaggaactc cataccctcc tttaatcaca gaca 954

<210> 3845
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 3845
tgttaggcaa ctgatgacta tacttatttc acaactggta atgtgaatta ttattgcata 60
aactatagtg ctgaggcccc agtctttaca cttccattta ataacttcac agtttcatat 120
cttcttgaga tacttactaa tttcaagtcc catcttggtc acaaggagtt gtgaattaga 180
gaacaattaa tatcaccagt taaagaagtt agattagaaa tctgaaccat cctaaacata 240
agaagtacct gcatcttcag agtcttatcc caaagccgtt ctgctaaatt gttcaatttt 300
ctccatagca gagctttcca ggcccttatt tggaagtgat ttatctctat gcacagttat 360
gtatggatag tatacataat actagcaagt gttattacct agtgttaact ggtggngtat 420
ttacatcaaa atataactta atttatcgat atctttttag gggtttccca ttaatcaaaa 480
cacgtgatat atgtaatcag ttgcangttt tctgtgactg ngacagtaga gagtccttca 540
tcctctgaag ttgaagaagg tggatgattc ttcanagagt gttcatgaaa gngcctggga 600
aaactagtnt tgaacaagaa gcattaccgg gaaaactggg aggagtgnct aaagccnttt 660
aaaggaagaa agaatgataa ggcttaaggg tggtaaaccn antcaatgaa cctgggacaa 720
tgaaaaagnc ccccttaaa aaaaaataaa atttntnttt ggtttggaag cccttcatgc 780
ncaggcattt gacnaaantn aancccggga tgaaaaaagg ggtttttg 828

<210> 3846
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1046)
<223> n = A,T,C or G

<400> 3846
tngttaagca ttcaattttn agatncattt ntcacaaatg catgattctg gccctnaaat 60
ccgnatatnn gcatatntnc ccnttcaggg gggatacana aatgggnnta tgcacacact 120
antcngngng cacgnaaatt tctggtgggt gnaactggtc ggctnatgnt ngtaaaatgg 180
ntcnatagac tatctgnanc acanngnann tnttncaccc tgnatgttga actatgaaag 240
atcctttntg cgcttaattn tacggntaag gngcaagntn ttggcctcca aaccnatgtg 300
tntcataaat gtgccanacn taaattattn ttgaactttt tncagaaata ctaaccatta 360
aanggangtn ttcnagattg gcaacntaat ggcaagccct ataatttgca cacttatttc 420
ntgcaggnga tggtatttgg ttnatcaagg gcatatctgg tggcccagaa tcttttggta 480
aataaattng aaanaaaaac cccatttaaa aaaatgaagg nggaaccatt cnctttnaaa 540
atcaagcnaa ttnggcttan cntttaaaaa ttaaccncct gggttttatt aacncgggng 600
ggtaaagttt naaaaaaaaa aaaaaaaatt tttttaaang gggaaaaatt ttnaaaaggc 660
cntttaacaa ngggggnaaa ccttaaatcc ttttccantn aaaaanggnc ccctaaaaaa 720

aaaaanggtt acnttnngtn aaaaataaaa ntttttttaac ccccctttcc ttnggggggc 780
ctttttttcat tntttaatnc ccccaaaatt ttttttttttt tttnaaangg agggggggggg 840
nannnnntaat taanaacaat naatttttaa anaaanaacc angggggtct tttggctttt 900
tgtttggccc caaaaacttg gggaggtgcc agggggggctt ttttnaaagg ncccccaatt 960
ctttanctttt acctggtaga ngggaatccc tttgcttggc ccccattctt tttgganana 1020
ggnttggggg aatatttggg cctttn 1046

<210> 3847
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1021)
<223> n = A,T,C or G

<400> 3847
tacctgatgg ttgnnttnct ctcctgngct gctcatgtct gcttaactac ctactctanc 60
agcaccaggn agnaggaata atatgtctct ttcatgataa actggcttgg aaggccttnt 120
ttgtacatgc aatgttgnan cttcaggtnt ccaaggtgga taatgttggn catnancatc 180
ttgctttggg gcttgtnntt cnaagactca tatgtatngc cctttnttta ttttnaagnc 240
ntctnantgg cccccaccng nngagttttc ttgaatgctt cnngagaaaa tttcccanaa 300
anancgnctt tnaccncaaa cttccccctt atgggntaac tttancanta aaccccggaa 360
ggancnttta attcngcnaa cccantanaa aaanttgnat cntttgggcn ccaaantnnt 420
ttaggttaan ctncaatgta ncnannnancc tgtntntnct tgtaaattnn tcaccaagna 480
cnntnttgtc nattgnccac gttccntnng gnnggtccnc tatttttggg tttggttaaa 540
angaagggct ngncntatng gggccncnng naaaantgcc ccnanntctt cnannaagna 600
accttgnaca accaannccc ttcttnagna nttcnnnaaa ccanttgcan ttgttcnggc 660
tngctttgta atttncaagn caattctttn gnntaaccca tngtttntnn tnncagaana 720
gggaaattcc ccggcntcaa ttaaaggtgg gcctggcnan gatttnanna aaaannnnaa 780
nnnaaaatna tngnnggcct ttttnaaact tnnnnnggat ggcggattta cnnnagtant 840
nnccnngcat gtnantagnn annacatgtg nnttannttg ggaaccaanc cccaccttnn 900
nantggcgtg nnnaaaaaaa tagctttttt cgggnaaatt tgggcaggcc tatggnatta 960
ttgttntaac atttattngc tcnngatnna nnnttnacnc cacnntcgcc tctatttctn 1020
c 1021

<210> 3848
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(898)
<223> n = A,T,C or G

<400> 3848
tttggtcctg gagtntnatc tacttactgn catcttccnc ggnctntggc ngtgccntgt 60
tccatgccgc ngtgaggcta tatgagatgc gccttggagc ngcctggatt tttngnntgt 120
aacacngtgg gctgacttgt gnntctatnn nanatngccg attatacaan cnngngntcn 180
ctggncaann actantgntt nagagnnntc tnnaacccnn nccgctgtnn cngctggnct 240
gancngangg ncttgtgtgc agtnactgnt tcccntttnc caggnnnnng ccctnganng 300
catactntnn tgcctgtcnc agtgtntnng ggancnttnn ntcanngana ngtctcnctg 360
accngnnaag gaacatntnt ggantgacat nngngnantc tctngangta tggggaaacc 420
canganngtg gtcaataang ggccctacaa acatgtttng gaaggctcct anggcattng 480

ggnnaaacat ntncacnnnc tatacaagtg gcttnncaaa gngaaagcgg ttattcntnt 540
antaactcnc nnnacnggac ccannantga ccncggcttg nnaccntgnn naacccnntc 600
ntngaactac gggccnttaa ngaccaacca nggttggttc ttgccaccat tttcttntgc 660
canccacaaa cctggccttg ggnaaatttt ncggttgcat tantaaaant ganggggggc 720
tanctgcttt tgggccctct ttcnaccttn tttntgangt angnttttte ntttttantc 780
ncgnncantn gataagaata ncntttgggt tgaagttttg ggtnccaacc nccttcttnt 840
naatttctnn tggaaaaaaa atnnnttntn tttnggcgna aatttgnngn angcttnt 898

<210> 3849
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 3849
gaagttcaag taagatctca gtggtgacag gtctagctta tttcaagagc tgcacaaaag 60
ccacttaacc tggcaacaaa aagttaatgt gttggttccc tttggtgtat tatattcagt 120
ctattaaagt tttgattgtg atgttttcat tgcagttttt ataccggata aaatgtattt 180
tagaagtaga acttttggag ctgaaatagt ctgcagaatg tagcttgaaa accacggcag 240
tgaactacta agggaaagtt tcagaattca agtctagact tcatcacttc atagctctgt 300
agctttaggg caggttcttt agcctctctt tgtctccgtt tcctcctgtg taaagtaggg 360
ataataaaag tatccatctc actgggatat tttgataatt aactgagtta acccatgtca 420
aacatttaga acagtacctg acacacagta aatgctcaat aaaaattaca tattgntata 480
ttgctgttct agtttataag aacaggtgtc agaatccagt tttgaaatga aagcccagaa 540
ctgtgagaaa tgatggtttt ctctattaga tgttctagga aataaggaaa catcaagaat 600
aatacagcca tgcttagaac aagttaaata tatgtccctc ttggctttgg actttctctg 660
tcacttccgt gctggtcttn ctctttccag nctcttcata ctctaatctc tggtctcagc 720
ttctacttgg actccntnga agggatagaa aaaaaaaaaa aaaaactcga gcctttaaac 780
tataggggtc gnntacgtan ancc 804

<210> 3850
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(840)
<223> n = A,T,C or G

<400> 3850
ttcctacctg cnctggaatg ccccagagca cctggcctgg ctgaagcagg ctgtgctcgg 60
gttccagctt ccgcagatgg accttccacc cctgggggcc ccctggctcc ccgtgtgctc 120
catggttgtc cagtacgcct cccagatccc cagctcacgc cagacacagc ctgtnctcca 180
gtcccaggtg gagaacctgc tccacagaac ctactgtatg tggaagaaca agagtccctc 240
cccagtccat ggggcaggcc cctcggtcat ggagatccca tgggatgatc ttatcgcctt 300
gngtatcaac cacaagctga gagactggac gccccccggg cttcctgttc atcagaggcg 360
ctgagtgaan atggtcagat attgtgtgta ttttttaaa aacgatttga aaaaatatga 420
tgttcctttg tcgtgggaac aagccangtt gcanacgcan aaggagctac agctgataga 480
gggacgtttg gcaataaaag ccttttttcat ccttctgcaa acaattttcc cataccattg 540
cttcacatnc accggacttg gaagaggagc acagagtgtg cttnagangg gaggattccc 600
agcacannag gatctgattg cgaaggagct tttgctgagg gagctctttg gcgcagtggt 660

ttntcgagca ntcttgcttg ttggggnaaa gaaagaaaac caagagggtt tnaanaatca 720
gccttcacca atggntggtt tgaaagaact caggangcct tttacgggtt ttaaactttc 780
cttnccccctn ttnntctttc ctcagacttt tagnggtntc tttttcacac tnttggaacn 840

<210> 3851
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(841)
<223> n = A,T,C or G

<400> 3851
tttattgacg ggaagaggtc atctttttt ccttctgaaa acaaatatgg attaattgcc 60
tcaaatttgt ataagtgatt ggctagtgat tcttgttttc agaagggaga gtggtataga 120
tagaaaatga caaagatggc aatatacact taatgttgtt attgtatgtt gttactgaag 180
tacttagatt tttaaaattt caaatcctaa atcacttctt gtaggagggt tttcattaac 240
tgcagtatat acagttcact acatatgggt tgtttgagtt ttttgtgtgc tgtatttctt 300
tctgtttttt aatacctggt tttgtacata tctaactctg ttctcttttg gttgttcaga 360
aactggattt tttttttctt aagcagtgct taatttgtgt tttttaattt tgattcanaa 420
gtagtcccag ctcataggtg ttcatactgt tacatccaga acatttgtca ggctctctgt 480
cagctttcat gtacatatgg tatagaaacc catggagtta ggcacttcct ggatttttt 540
tttatgagaa aaaatctgta tttaaaatgt aaaataaact tttaaaaaag canggcncta 600
atatatattt cttnccgcct ttgattacca aatttgtccc ttgcncatgg ttaaagatga 660
aattatcttc ctaaaaaata tcaatggttc ttggggaacc agggggattg ttacntttac 720
cataaccaac nggttncctg gcaatggggt tcatggtcaa aaaaattttt tgggttttna 780
aacttttntt atttgncctt tggcttggtg gattaagncc aagnncaaag ngccgaattn 840
c 841

<210> 3852
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 3852
gataatgaaa ataaaaattt tgtgggctct tcatagtggg tactttgatt atgtgtgata 60
atactgtgct gtgacaaata atataatgaa gaaattaata ccaagattgc tattctgaaa 120
gattaaacat tctttaatac ttagatcttt catctgttta tgtaacaaac cctaacatac 180
aggcttaatg ccttgcagat attaacttct ttaacttaat ctttgtaaca gtcccatgaa 240
gtaggtctat tattattaca ttttccattt gaggaatata agacataaag atattaacta 300
ccttgcccaa cagctaatta gtggtggagc ctacttttga actcagacac tctggctcta 360
gactcttttc ttttattaac cactgcacta tgttacattg ttttttttatt tttaacttaa 420
gtgtgttaac cttgaatttg aattatgttg tattagcctg gtaagtggga tcacagaaac 480
gtgtccactg cctagatggt aagagatcat ttgtctttca tctttgcata cttaacatca 540
aaatataagg aagaacaaag gaaatgttaa tcttttaaag cctcaaagta taactccttt 600
taaaatgcta atgattctgg aaaatggtca gacctttaac tgctttagtt gaacatttta 660
gacaggagct aatattttta acaaggatag caggaatcat atgttttatt tctgatcctt 720
gacaaagctg aagagttgca tcttcataag ggnttcactn tntgntacac actagactac 780
ttgcaagggg tgcccn 796

<210> 3853
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 3853
gcatatgtgg gaagtgngtg tcccgtccag gcctgtgcct cggnccacag caactgnttc 60
gtgtgctgga gacgcccaga ccgacaggcg aatggntcga gtgcacctcg atccgagtct 120
cagcacctag actaattagg atgacctcag agatgctgaa gagtaccttt ggtcagcctc 180
agnctttttg nttttggttt tttttgagac tgtgtctcac tccgtcaccc aggctggaga 240
gcagtggtgc gatctcagct nactgnagcc tnaacctctc agactcaagc tattctccta 300
cctcagcctc ttaactagct gggatcacag acatttgcca ccatgcccgg ctaagntttg 360
tacttttttgt agagacaagg gtttgccatg ttgccaagct ggcttcaact cctgggctca 420
agtgatgcct gcctcagcct ccaaaggtgt tgggattaca ngcgtgagcc accgcacctg 480
gcctgttatt ttttaattag ctgnggaatt tttttttcca nataaaatat tataaaattt 540
attaaaaact ttatttctca agangggaa cgnggaaata ctaattcccc aaatggttcc 600
ttttacatct agaggtccaa attttccnca atngaaacnt ttctttcaat tttcggtact 660
ttttttggtt ggtttngaga anggaagtct tgntnttgtc tnccaggctg ggantacaag 720
ngagcccgag aacatgcccc ctgnattcca nctggggnga caaaancccg acnttttttt 780
aananaaaaa nangnnnnnn annnnaaacc cgggccttta aaatttt 827

<210> 3854
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

<400> 3854
ctgaaagggc agcgggcaga aaccgggctg gggctggcat tagctttccc tcctcccagt 60
ttctctccag cgcagcaggg cacctctagc ccagaaaaag aaaactgact ttctcttatt 120
tctgttttct gctgctgcta atctcctcct gaagggttgt gtggcttctt gggactctgg 180
aaagaaactg caggggacga ggacaaagga aacagctact gtagtcactg cagctatgca 240
ggctctgtgc tagccctgga aaggcctgga cgttcangtc tgctgtgccg ggggtaggcc 300
ccagaacaga gcggtgggcc catcgctctg caccacagct gccagggctc aaaccttggc 360
tctgccttac ctggctttgg gatcttgggg gatgcacagg acactctgtg cctcaatttt 420
cttatcttgt aaaatggggc aaatacctac caagtcatag gggtgatgta aagtctannt 480
gagataatgg agggnaattt ctttttttttc ttaacttaaa ttttggatcc nttttgggtc 540
gatnttttgta tattgggggg naatttctta naagctngaa agttattnaa tgctgcttat 600
gagccaaata ctgngccnag ggctcttgtc cagatcattc cagttaatcc cacccaagan 660
cccaacagcn caaggggttg cttatatttt tgggggngga nggaactggg aacccnaggg 720
gaagtcacgg gnctttngcc caaagttacc cccgaagttn aagcgtttaa aaccaagaaa 780
tttgaacccc caagccaagc ttgaccnant ttggtttgct tnggcn 826

<210> 3855
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 3855
ctctcatggt aatgccagtc atgctcctca gtcatcagaa ccagcaaaaa tactcctcac 60
atgtccttag atagttgcaa atgctccaga gaggggtaat ggcactgctc ctacttgaga 120
accactggct cctgtaactg cttggcctag ttctaacttc taaaatgttc tcctttcctg 180
agagtataat gaagagccag atactttgtg atctttctat cattcctctg gcttcttgga 240
cttccttaat gattgagctc agatgctgga gtcacatcgt ctggctatga aatcaagctc 300
tgccatttac tgggtgtgac cttgaacaat tacttaatct ctccgtacct cagttttctc 360
agataaaatg gagataatag tgacatccac ttatttttgt gaagatgaaa tgaaataaag 420
catgtaagct ggttatcaca ctgtccactg gtggaggcat ggtaattgna tgaaggggat 480
gacgatgatt gacnatgacn atgatgatga tgatggctcc caaccttaag ggcttattcn 540
agccagaact tgaaattgac cttaataatg aatactncaa aaaacacaga caggcacatg 600
atntattaga aaangnagca actacggngg gagtcaagta aatnctaaac accctctgcc 660
tcaatctgta tggntttgaa atgtccttta nccgtcttga tttttacata tctatgaaaa 720
ttttgnggtn catgggggtt aaacaaaatg gatgacttaa gccnttggga agtaatttca 780
taaacaacct tgttgatatg taataaaaaa cc 812

<210> 3856
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 3856
ttgctttaca ttggtgaaaa aagtcatcat ttcgaagcca ctcattncat cggaattggg 60
agggccacca tcttatagct gggcttgtga acctttgact tttcccagta tatattggac 120
tattttgatc actgctatat gcttctagtt cctcaatcan natctgccac agaggaggcc 180
ctctaaattt tttgtggaat tacttaatga aatgaatgan tgattattcg ccttcacagg 240
attgtgtgag accatataan gtgtgtagag cggtttgacc tcccaccatt gaaatgctcc 300
ttaccattag catctaaagt gattcactag agaaatgtgt gtgctctcnt gacagtctgc 360
ttgttccacc ttgctggaat ctaaatccac gagaatcctg tgttcatttc tctctaaaga 420
ataattacga ccatntaagg taatagctaa agaatcnaga cctgtaagaa ctcttancan 480
gtacagtggc ctgtgcctgn agtcccagct actcangang ctaangtggg aggattgctt 540
gaacccntga gtttgnggct gnagtgccct atgattgtgt ctgcgaatag ccactgcatt 600
acagcctggg caacataagg gaggaccatg cctttggaaa aaacaaacaa cttnttggga 660
agtctcctaa ataacctatt tnaaagaggt caacaatttt gcccggtggg gttggcgngg 720
taaaggacaa aaanttgcca ttnggtttnn atnttttaaa ggnnnnaggg gggnggggnn 780
ngnnnggnnn nntaaannnn gggcccnngg ggcccattna nttnggnncc cngtt 835

<210> 3857
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3857
ggtgnttnnn ccttgaaanc tttatacanc tacttgttct ttttgcagga tcccatcgat 60
tcgctccaag gatcacagta ggatcctcgt tggtgacagt cgaggccgag ttttcagctg 120
gtctgtgagt gaccagccag gccgttctgc tgctgatcac tgggtgaagg atgaaggtgg 180
tgacagctgc tcaggctgct cggtgaggtt ttcactcaca gaaagacgac accattgcag 240
gaactgtggt cagctcttct gccagaagtg cagtcgcttt caatctgaaa tcaaacgctt 300
gaaaatctca tccccggtgc gtgtttgtca gaactgttat tataacttac agcatgagag 360
aggttcagaa gatgggcctc gaaattgttg aagattcaac aagctgagtg gagaccatgg 420
tctgtagacc ccttcccgat tctcctgtcc cagcttggaa ggcattgaaa acagtctccg 480
tttacacatc tcttcatacc acgtgtttga agtgttaaaa ttcaaaggga tcattgaata 540
aaacgggtgt agagtacagg aatggggcag acgcgattca ggtgaacagc acaagaagaa 600
tatgangtgg ttcctaggag caacactttc gacctncagt cttcctgatg acagtactgt 660
ctncaagaga aaaatcctca cttattaact ctcttttctt gcatctcatt ttatagagct 720
actcatcctt atttggaaaa accancacca aaaaaggctt ttagaaaatg gt 772

<210> 3858
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3858
ctctggctct tggaaaaggg cagtgtctct aaacccaggc aaacggtaaa tgtggggcat 60
aggcaagagg gtcccgggta ggtggccact tccccatcat gctcgtttct cattttgtgt 120
tttttagtaa naaaaacaca gtgtgttctt ttgcccagac attaatcttt agaatgcctg 180
tattttctaa tgttgggatt tctttcacaa ccacccacct taatatttcc attgtgactc 240
agaaaatcag acttcattcg attctttaga gaactataaa tactgttgtc agtagagtga 300
agtcttgtct tatgtaatcc taattacaga atgtgttctc agaagaggta ggctagacca 360
gagctgggca gaccacaggc agaggccaaa tccagccccc tgccgatagt agctaatata 420
agttttacac ccacttgttc atgtattttc cctggctact tgtgggcagc aatgccagag 480
tcaagtcatc ataacagaga cagaatggcc tgaaagctgg atttactatt tcaactttta 540
cattaaaact tgatgacccc tgtgctagac aggcagctca tttctgcagg taaaattata 600
ttcatctncc aactttcatt ncaaaattga acctatatta ctgaggccca aaaaannnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnccctn ngccctttaa 720
aacctttttgg gggncgnttt nccngaaccc nccctganaa aaaaccttgg tggagttggg 780
ccaancccccc nctttnaatg ccgngaaaaa aattnttttt 820

<210> 3859
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 3859
ggtgnttccc ctttgaaacc ctttanacaa gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggg tgggcaggca gctgcacctc attcctgaga ccatccgggg 120
cagggctttt ctgactgaga cacacgaccc tgacaccaga gagaattctg tatttcccca 180
cccttgcagg ggctgcccct agagaatccc atcgggtgag cccaggaacc cacaagttct 240

gcacccctcg gatgggtagg cattttgagg gcatgaggta ggcgttacag tgataagata 300
cacagggctc taaaccacag aggccccggt tcaaatcctg cctcttctaa gtacaaatta 360
gttggctttg ggaagtgagt caactttgcc ccgggctgca gtttcctcgc tgtcaaatgc 420
atgggagagg gtgtgtgaag agttaaaatg tatttagatt tcactgtagt gtctcctcca 480
acatgatctc acactccttt tacagtataa gcaggctgat gtcagaggct gtgactcgcc 540
ctgccaggtc taagaccgtg gggcgtggtc acaggtacta ttttangact cctctnacca 600
caggcactga acttggggct tgcatatata tcaccccatt actcctcaga agatactgta 660
acgtaggatc ttttattggc tntattgagg cttaatgcat ccattttang nggtacaatt 720
tgatgagttt tgacaaaagt ntaancttgt aaccacaatn nccganttca tgacact 777

<210> 3860
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 3860
gnnnntnnnc cttgaaaccn ttatacanct acttgttctt tttgcaggac ccatcgattc 60
gaattcggca cgaggacaca ttaaaagaga gatatcaaaa aattggtgac accaaaagga 120
atactcccat tgaagctctc tgtgagaact ttccagagga gatggcaacc taccttcgat 180
atgtcaggcg actggacttc tttgaaaaac ctgattatga gtatttacgg accctcttca 240
cagacctctt tgaaaagaaa ggctacacct ttgactatgc ctatgattgg gttgggagac 300
ctattcctac tccagtaggg tcagttcacg tagattctgg tgcatctgca ataactcgag 360
aaagccacac acatagggat cggccatcac aacagcagcc tcttcgaaat caggtggtta 420
gctcaaccaa tggagagctg aatgttgatg atcccacggg agcccactcc aatgcaccaa 480
tcacagctca tgccgaggtg gaggtagtgg aggaagctaa gtgctgctgt ttctttaaga 540
ggaaaaggaa gaagactgct cagcgccaca agtgaccagt gccttccagg agtcctcagc 600
cctggggact ctgactcaat tgtacctgca gctcctgcca tttctcattg gaanggactc 660
ctctttgggg gaaggtggat atccaaccaa aaaaaaaaaa aaaactcgag gcctctagaa 720
ctatgtgagt cgtattacgt agatccagac ttgatagatc attgt 765

<210> 3861
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 3861
ggnnttnnnc ctttgaaacc ctttanacaa gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc gagactgtct caaaaaaatc aaaaaaaaga aaggggatgt 120
aaaataatcg ctgcaagtta cagtgttttt cattaatgac ttccaaatgt ctcacatgta 180
ttgtctcttc ccagtagcat aaacaaagat gcagggaggt gcaatgagtt cctacaggcc 240
ctagagctga cggtaggggt gggaatacag ttcacaccgc gtcttcagct gtgttccttg 300
tggatgacat ccactggaca gccaattgat aaaaacagtt atcagttcta aagtgttagg 360
acaattacag cttattcaaa gaaaactcaa ttaaggagga gttagtaaag ctagtattgt 420
tcttatcgtg tgcaatgctg cagtgtcggc tcactgcaac ctccatgtcc caggctcaaa 480
tgatcctccc gagtagttgg gactacaggc atgtgccact atgcttggct aatttttgta 540
ttttttttata gagactgggt tttgccatat tgcccaagct ggtctcaaat tcctggacgc 600

aagcctggat ttgcctggct gccatttctg ggttttgccg caattcagtt ttttatgaca 660
ggcagaccag tgagtagaat acagttcttt ggataaagga caaactgaag cactaaaaat 720
ggagagtcat tttaaagcaa aaaccagtgg aaatgtgtac ttggcttcac c 771

<210> 3862
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 3862
ggtgnttnnc ctnngaaacc tttatacaag ctacttgttc tttttgcagg atcccatcga 60
ttcgggaaaa ataacatgtt cactttatga aaggaagaac caggnaaaaa taatagaaaa 120
taatgaacat gagtggagat atagatgaaa gctaaataag cattcactgt gtcttatcaa 180
gagtgactaa taagctgaca gctttatttg agttctggta agcaaattaa tatcatataa 240
atcattacaa tttggataaa gcaaaacctg ttatcaaatt taaaaactgt ttaataattc 300
aacactccag tggtttgcct tgtttaagca aaaggattct ggccaagata ttttacttca 360
gctctctgcc aaagatgaca attgtcagtg atttgtccag agggggggact taagtctttg 420
gtaaggatcg ccaacagctg gaaagtattt attgcataaa atatgtccat gatactttac 480
caacattgta gagaatgtaa gctataaata cagttatatt acaaagagtt tacaatctaa 540
aattaaacac aagaatttac ggaaaaatca ccaaaacaaa ttaaatggaa atatcatttc 600
acaaggttct ttaatttttg gccatatatt tgataataaa tacatatgtg ttntagctat 660
cttacttctc ttcttattct gatttnacct nntgtggtcc cctgctg 707

<210> 3863
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(621)
<223> n = A,T,C or G

<400> 3863
tgnngggcna ganacccgnt ngggctgcaa gggccggctt gacccnacgn atnccggggc 60
ananatgcct gtcnagncnn caaaggaagg ttgtnncgct ttacgcctat tggtggaaaa 120
aancccnttn tngaaggtct atcctcaaan ngcnnntngc gttcncccga ctggccgttt 180
atncaccnct ggnnaagagg ganttnattn nacccgctct tttttanaag annnnaaagg 240
ttcngcatnn tggggcnnnn gnncacactg gctttgaana gcnanagctg agtgacatcc 300
acccagatnc aaaatggtna catgtcaact gtggccgaaa acgnggccgc actgncccat 360
ccgctcttcn ggagnttgtn ggccctttat ncgcacnaaa ttgcagcctg ccggatactg 420
tattcacaca ggctntgagg ggggagggat tgttntcaga atgcattaag cgcnttnaat 480
agcctgcntc ngttgctttg tcaantggtc ttnacatgaa tgcccgtccc ctgaatatcn 540
ngtaatcatc tatcnnacct gggatcgcaa nncgttaaaa canaagggca agtgacggng 600
gtcgtactgn gnaagagctc c 621

<210> 3864
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3864
ggngnntnnn nnntttggaa ntctannata caagctactt gttctttttg caggatccca 60
tcgattcgct cagcccccca gtttttatgt ggacatgttt tcatctctct tggatatata 120
cctaggagtg gaattgcttg gttgtgtggc aattctatgt ttagcattcg aagaaattca 180
ttgaatggta agctgaaaag tgacgtggtt gaatttctga tttcagaaag atcactgatg 240
tgatgagaat gaataactct ctggagtgct aggatgtggg ggcagggagc tagcttagta 300
tattattgca aaatcttgcc aaagatgagc tgatcaaatg agaggaagca tgaactaaga 360
ggggagcagc aggagtggaa aagagagata taatgatgct agtacagagt ttatatttac 420
agaacttgaa atgcagctca ngagtgggag gagtcangtg gtgccaagcc tacataaatg 480
agcatggtgt tgcttttgac aaatagggag aagcaganag gggaataaca ttttgtagtt 540
tcttaatttc taatatgtct tgagataggt ctctaattat atgcagctca attnacagat 600
gaaagttatt ggtttatcat gcattcatct ttatgaaaag aaaggattcg gccttgcttc 660
ttccttggta ccaaagtatt ggncagggct tgggcacngt ggcttacacc tgtaatnccc 720
agcgcttttg ggaggctnan gcaggaaaaa tccttggacc ctgggaaggt naaggttcca 780
ntgancccan 790

<210> 3865
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 3865
ancctttana caagctactt gttctttttg caggatccca tccgattcga attcggcacg 60
agagtgacta cttagaagat gctgtcccca ccttcgcccc ctccctctag ttgcccaaat 120
gtcttacctc ccccagcttc actcgggcta gtggaggtct tcttagactt ctttcaaggc 180
ggaggattta gagtctgggg tgaagtggcg gtgatggatg gctggggacg tggggctgct 240
gactcaatgg tgatacatca agcagttaat taagggacaa gttatcttct aagtgggagg 300
taaaggattt tctgttcctt tgttcttaat gctcatatta atgccatttt ccctcatgga 360
gacctcaggc tgtgcttaaa acgcttccat aattcctttt ggcactgcta gaggtcagca 420
ttgtccactc gtgaaggaca caggtaagtc acagacattg gggcttctgg ttgttaaagg 480
ccaagaatgt gggatgaaaa ccccccgtgt ccccatagca agttaggggt tgctcancag 540
ggctgttttc attcagacaa gcagctcatt ccaaaccagc cccagagagc cgcttcaata 600
agccattgtc tgcccaagga ggaagaactg ttgtccaagg ctgtggntaa tgcatgacat 660
tggtagttgt tccaacaagt caaaacttgg ttacagaaaa gcagcantga cnaggatctt 720
ggaataaatg ccttggaccc angtgccaag gaattttcca cgcatn 766

<210> 3866
<211> 1154
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1154)
<223> n = A,T,C or G

<400> 3866
tattgatctc acctgctttg agtccatcnt caattcgnca agccnggtcn agagtaactc 60
tgcactccta gctgggttgc cttaacaagt ctatttaact ttttcttagg gtatttctaa 120
gagagttcca aaatggaaaa aaaatnctat ggtggtntgg aaatttttaat gaataataaa 180
ttcccatttt aaggttaaaa ataacccaaa aaantaacca cctccgtant ccattaagan 240
cattttagga agnaagtttn cctttanctt tnggggaaaa agggtttttc caatttttttc 300
cccttnaaaa tgggganccan ttccaacctt gggaaaaaan ccaaggccca agggggttaa 360
nttggaaacc caaggaaagg gggggttttn ccccccccct gggaaccctt tttttgggaa 420
attaagggnt tttttttaaa aaaaatttta aattcccntt ttaaaaaatt ttttnaaaat 480
ncccccccttc cctnggggtt ttcccccctt ccnttgggcc ccccttttgg ggggggnccc 540
tttttaaatt tttaaaaagg gnttttttttt tngggnaaaa aatttttnaa aaanggggggg 600
ggggttttta aaannttttt ggggggggaaa aaaaaaaaaa aaaaaaaaaa nnaattttan 660
ttttaaaaan ccccccccagg gggggggttt ttttnaaaaa antttnancc caaaantttn 720
ccgggntttn aaaaaaatna aaaaaaattt tccccaatta aaaaataaat taaatttttnt 780
taaaaatanc cccnccccctt taaaaaaaaa atgggaaaaa aantttaatt tanttttccc 840
ccaaaaaaac cttccaatta aaantttnaa aagtttnttg gnaaacccaa atttttggcc 900
aatttttgga aanaattttt taaaaaaatt naaaaagccc ctnaaaacca attcggggnc 960
ccccttcccc ctttctttca aatnaaaatt naatttcct ccccgnaaag gggncccttt 1020
ttcctttccc tttgganggg gccttggggg aagcccnncc caaggnccct tttggccagc 1080
ccccggnaaa ggggggtcct ggcaccctta nnctnggggt ttttnccttt ccccctgggn 1140
nangggcct ggna 1154

<210> 3867
<211> 917
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(917)
<223> n = A,T,C or G

<400> 3867
gtgattccat tngatacagc tacttgttct ttttgcagga tccctcgatt cgaattcggc 60
acgaggatca caccactcca ctccagcctg ggcaacgaag tgagaccctg tgtcaaaaga 120
aaagaaaaag agaaaagaaa agaaatctga aggtcttgac aacccttggt cccccatcct 180
cctatgactt tgggacctaa atcagagctg gccctctttg taacaagggt gtgggcccct 240
ctatttcact gtantctgnt ttcattccct gcagccctcc ttgatacgaa agatgccagt 300
gacagggcca ggcacttgtg gctcatgcct gtaatcccaa ggaggccgag gcngggcaga 360
ttgcctgagt tcacgagttc aaaaccagcc tgggcaacac ggtgaaaacc cccggttcct 420
ttcntttggg cccctaagat acaaaaaatt accaggcatg ttggtgcatt gccttgtagg 480
tccccaacta ctcggggaag gcttgaaggc caaggaanaa attggcnttg gaaacttcna 540
gggacaacaa naaggcttgc caagttggaa gaacaaagga atngggtggc ccacttggca 600
attttcttaa gccccanggg gcntttccag ggaagccnaa gggaactttc ttggttcntt 660
cnaaaaaaan aaaaaaannn nnnnnnnnnn nnggggncc ccctttnttt taagnaaaaa 720
ccctttnttt taagntnggg aaaggttncc cgnttaantt ttnaaccccn tttaannaaa 780
tttccccccа ggaaaaccan tttgggattt aaaagggaaa ttccccccntt tttgggnatt 840
ggnaaaattt tttttggggg naaccnaaaa aancccccac ccaaaacctt ttaggaaaaa 900
ntgggcccaa nnttggg 917

<210> 3868
<211> 847
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 3868
ttgatttcca tncagntact gctattgttc tttttgcagt atcccatcga ttcgaattcg 60
gcacggaggt gagnaacggn gaatacgggt aaaacccttg gctcatggaa agcatagcnc 120
aacataaacc ttttaagcaa accagcgcag agttcccgtc ataagtggcc accatcttca 180
gaaaccaggg ctcntgggtg tntccanaan tttgccagga atttatgtta ctttaaccca 240
ctttggtngg gggaaaagct tttgnaaata gaatcataca tgcatttggt ttttaattac 300
agtgccgttg gcccatnaat ggggnttaaa tttatactgg agcacatggg cacccatatc 360
tgggggtttc cctcttgggt caagggcccc ccattggcca anaancagag tctaaaggaa 420
aatcttgaag gttgaaaaac cnttgggggg aaaggnaaaa aantcaaaat tcccagtggg 480
gaaaaagaag gaaaaatagg gangggctta aaccttgcaa aaaaattgaa aaanttgaag 540
gggtttgctt ggtcnaaata atcttggaan ggggccccct tttcttgcna agaaggaagg 600
tgnaacaatg ggagnacaac atttcaaatt aaaccattat ttggtaaaaa cnttncttaa 660
aaagtcaatn gnccatncca naaaggttgg aaatgggagg ggnnggtggt ttctttccgt 720
tccaacttgg ggagttcttg gccaaaactt ttttggaagg ggcnttgttt tctttttgga 780
aaagnaaatt aaaaggttnt tttgggaaca ngggncaatt tggagtttnt ggaatncccc 840
aatttta 847

<210> 3869
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(661)
<223> n = A,T,C or G

<400> 3869
nttgattcca tnntntacng ctcttgnctt ntgcggatcc ctcgattcga attcggcacg 60
agatgaatgt ggaactttta tttttatcca ttattttcaa attggatcan tgtcctcctg 120
atctattaga tctaagacct aagaggaacc taccttgttt tggctagcgg gtacagactt 180
tcttactaaa aggnggggtgt atttcctaga atagcatntt ctgttgagta gagatgattn 240
tcaacaatgt ggctgngtca cttnncttca aagtgattat ngagtgtgaa agtaagcant 300
tgtaatactt tttaaccact gtctgtgttc ttaccagatg ggaaaacanc actcgtcttg 360
aaactggaag ttcccagtcc tgggatgatc tganaaggtt ttggaaggga aaaacccctt 420
gttagagata ttgcagttgc atcacacacc agcttgggtg ctgcctagga tcanctgctc 480
agtgaanagt actcttgcta aaccttacac cacccagact atgcgatttg gataagtaat 540
acttatcttg acctgtgttc ttttganggg aaagaatgnc tattgggtag gattattgna 600
aaatgagatg agatatcctt ataaagtttt agcatgatgc ngcctctaat aatctgcatc 660
n 661

<210> 3870
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 3870

ttgaattcaa tacttgattc gattttcann cttggcggga tcccatcgat tcgaattcgg 60
cacgagagtg ctgggattac aggagtgagc cacttaggct agccctgaaa tgcttttgtt 120
tttgtttgng ttttttgttt tttaatgaaa atacagggac atggagatgt ggaaagacac 180
cttgctttat tactggtgtt attattatta ttactacagt ataattcatg tatcacaaaa 240
ttcacgattt ttaagcatac ctttcagtat tttttactat attccaaaaa gttgcagcca 300
gcagcactac ctaattccaa aatatttcat aatgccaaaa agcatgcctg cnctattggc 360
tgtcactctg caattccccc ttcttgcagg ctctggaccc aacccccncc cctttaaaaa 420
aaacttcttt ctttntgtat agatgtactt ggtctggggc accttcctct ttatnngaaa 480
aacaaaatgg gggngttttt ggggtttggg ttntcaaaan aaagggnccn caannattna 540
anacccttt aaaccccggc cnnnaccctt tanaaanttt nttngggccc aaaanaaatn 600
tccccccttа tnggggtaa cnnccaaatt tggnnggnnn taatttccca atttnanaaa 660
ccaaagtggg tttttnnccc ccnttttttt anaaaccttn tttttnntgg aaaaataaaa 720
nnggccctgg ccntaannna aaaacaagcc ttttttggcn accaattggt tttttttngg 780
gaggtnggnn aaaccatttt ttn 803

<210> 3871
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 3871
cttnttctac tntttctncc tggaaaaccg ncnnntgcag gacccatcga ttcgaattcg 60
gcacgagggg atttgaatgc ccatgaaata catttttttt tacttgaata tattcttgct 120
tcactttacc ctccataata tgttgtncat tagtgctgat caagtttaca gagttacatt 180
ttgctnncct aaccattcag gcaggaatta aaatatggca ttgttaacaa ctgggaagaa 240
gctcatagng gatatnaatt anagtagata atgggtcacc ttgatagcct ctgnttacat 300
cacttgnata tgggcaaaat aattattacc tatacgtgta tttaagctta atttncatat 360
aaacagtntt ttgaatctat gctaaaanag ataatatcta aaagngtgat ctntacgtag 420
tccttagttt atnagtctgn actncaaaaa gattcttaaa taagcccggc acggaggctc 480
atgccngtaa tcccaacact ttgggaggct gaggcgggcg aatcacctga ngtcangagt 540
tcgagatcaa cctggccaac atggtgaaac ccngtctcaa ctaaaaatat aaaaaatagc 600
cccggccgtg gngggcangc acctggaaat ccccagctac tcgggaannc ttgacgccan 660
gaaaaatcac ttgaaacccc aaggggcaaa aagctgggag ggtaagccca aaanccgcat 720
tnattnggac ctcccaancc taaggggggac aaagaaacgc gagnacttca atcttaaaaa 780
ncnnntngnc anttattgnc nnaaanggna atgnngnccc ggaaaaaaac cccc 834

<210> 3872
<211> 970
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(970)
<223> n = A,T,C or G

<400> 3872
tgtnagacgt ttcaaggtca gtgtattagt ggctcatgcc taggggaagg aataacattt 60
ggagcaaaca ggagacaaat tgaaaagctt caggaggaaa ggctaggaaa taagattctt 120
tgggcgagaa taaggacttt aaagagattc cacatattcc tgggaatctg aaagaccata 180
cacatgccta gggctgggca tgtgcttaaa aagacttgag agggccctat gctgtcacct 240

ctgcctgacc ttcaggctct gtgcaagcag gaagtgaagg ctaaggcata gttataaact 300
gcatgggtga aggttgaaag gtgtgtccca acacagaaca catctgcaaa tgctacgagg 360
cattttgttg ttccaagtgt tcaaagaaat cttttgaatc actactgacc actaagctaa 420
ccaaagactt agtggccaca cctgacaaag aatacaaact aaaaaactaa aaatgtagtt 480
caagaaaata acaggctggg cacagtggct cacatcggta atnccagcac ttttgggang 540
ctgaagcang tgggatcttc tttgaaccca aggacntttn gagaccagcc ttgggcnaca 600
ttggcaaaaa acccccatct tnttgnaaaa aaaatacttt aaaaaaattt tgccaggggg 660
ccctgggtgg gcnnccccac ctttantagg ttncccaagc tttnccccca agaaaggcct 720
tttaanggtn gggggaaggg aatccaancc tttgancccc tttgggggan gggtncccca 780
gggccttttt aaattggnag ncccattaa attcccttgg ncccatttgg gcanctttcc 840
aaaccccttt aggggnggna ccacccanat gggggganggg naaannaaaa atttttaan 900
tttttcccna aaaacntttg gncccnccat ttttttaaa aatnaaattt tttttccaaa 960
aaaattggtt 970

<210> 3873
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 3873
actgaagctg ccaggcaagt gaggaaccag gagccgtcac tgagtgtggc tgggctacat 60
catagctcat cacggagcta cgactttggg tactgcggac agacctggat aggcccagca 120
ttcgttctga agatcacagt tcacagaagc ttttgcttcg taaagataat ccaaaggacc 180
tgagacccgc ttttcctttt cccttcattc ccttgagagt cagccataaa cggaatacct 240
gctaggttcc aggaatgagc tcacctaaca gacagcaaat gtgtctggtt agatctcagc 300
agagcccatt ctgcaagacc tggctgancc agatgagagg gtgggccctg tgctgggggg 360
ccttgggtca cacacaggaa ccaagacctg gcttccaccc cccagtcacc cacttgggtt 420
atctgctgga agttatcgat aggactgtgt ggccaaccaa gtgcttgtga gatcactgac 480
actgcaaaaa caaagcaaac tgctccgggt accaggactt ccttcaacct ggcaangggt 540
gtgcgctgag gcngggcttg cangtgangg ggctgtatgc ttcaggaact aactaaaatg 600
catgcanaag gtaagaggca tgatgggagg tgttcaagca cacaatncca tttgggaggt 660
tattttgata ctgcgatgan taagggtaan ggccccatgg aatggggcta anggtgggag 720
tgaacactgg ggtgaataaa ttttaaatca attcaggtaa aaaaaaaaaa aaaaaactcg 780
agcctttnaa ctatagggggg cgtnttn 807

<210> 3874
<211> 461
<212> DNA
<213> Homo sapiens

<400> 3874
tatccatcag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgaggaga 60
aaagctctca ggtaatctgt atggcttata agggaaacct gcagtccttt ctgaaagggg 120
agctgtgaat atgactgctt tgtagaaaga tgtcttagga ttctgggtga aaatttttaa 180
ttcccctcat gtaggaatgt cacagagtgt acctttttga cttagtattt tcctagtaaa 240
atacaccttt cttaagaaaa tggctacaaa gtcagatgca tgtaaatgct ttcagcaagg 300
gtttattgat catctgcttt aggctgggct ctatgttagg tgcctgtgga ttccattcta 360
gtacctgtgt tctcatagaa ttgaatcctg gtcccccata tgacttttga tgatattcac 420
actgttaatt ccaataaaga cagagtagac aaacagaaac t 461

<210> 3875

<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 3875
cttggtgaag ttgatgacct ccaatagctc ccagtgtcat gggtacccag tacgcattag 60
ctggtgttgg gttgattgag acctggggca gttcctgggg caagaagcca gatgggagat 120
gagatagaaa gtgttaggag ttatcctctt tgcctggcct ttgagaataa cttactgtgt 180
gactttgggc aagttccttc cccactctgg gcctcagttt ctcacttggg aaagcaagga 240
gtttgaccag atgatcacaa tgggccttcc tagctctggc caccaagaat ttgtgaacat 300
tagagctcct ggtctggtgg gtagagccag agctgctgac tggtctctct gcctccagag 360
gggatttatt ggacctcana ggtggcaggg ccctatggag caccaactgc cctcaacccc 420
accctgtgcc caagactggg aagggattga tgtcaggctg tggccatagg tagcatgagt 480
tgcccaagga gggacagagc atatctttgc tgangcttgg ctgangggct tatgatangg 540
cttgcagtac ctcacaancc cctgtgggca caagacaccc tgaggtttac ccaggccaaa 600
tatatttgat tagcagggaa aaaaaaaaaa aaaaaaaaac tcgaaccctn tanaactata 660
agtgagtcgt attacgtaan atccngacnt tgaataagaa tccattggtt gangttttgg 720
acaaacccnc aacttnngaa tgcccgtggn aaaaaaaatg cntttatttg ggnaaattgg 780
ggaagcctat tggcttttnt ttgtaaccat tttaanctgc aattaaacan nta 833

<210> 3876
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 3876
gtttgtgggt gaatggtttc acaccagagt gggatcctct attgcatgta ctcgactagc 60
ttttcattct tatcacactt cccttcctat aaagttacgt atcttttaaa gggaaattta 120
atacccacct tcgctttctg tgcggccttg tgaaaatcag gcaataacaa ggacagcctt 180
attgccagtg tatgaccaga gcatctagat ggcactacta gtggaatgtc atcttgtcta 240
ccattcattc attcattcat gattttctct accanacagt tttggaactc ctagaatggg 300
tcaggtggta ggcaggcatt gggaaaacaa ggttttaagc cattgtccaa atcctcaaag 360
aactcaccat tttggtcgag gggccatggt gagaggtgta tagaacaaag taagaaatgc 420
tgtangagca gagagagaga aagaggccca gagagcacag tggcagagta catctcatcc 480
agagaaacag catcctgcat cctccagagt cctggttcct tcagtttcat ncccttttctt 540
cttcttccat ggattatgta atacattgta aaggttttaa ttaattaaaa aattgaaaaa 600
anncnaancn nnnnnntnnn nnngnnnnnt tnnnnnnngn ngnnnnnnnn tnnnnnnncc 660
nnnnnnnnnn tnaannttttt nnnnttttnnn aaaaannnaa aancnaaagg nnnnnnnnnn 720
ngnnnttnga cnnnngnnna aantnanaan nnnnnngaaa aaaaanaaan nanntnnnaa 780
ttnnnnaann ngnnnnnnnt nncncnnccn nnaannnnnn ggaantnnaa nan 833

<210> 3877
<211> 1213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1213)
<223> n = A,T,C or G

<400> 3877

cctttnaang gggnttttttt tttttggggg tttaaaaaaa aaaaaatttn cccnaaaggn 60
ccccntttng gggggggggg aaaaattttt ttttcccccc tttttttccc ccccctttt 120
ttttttttt taaaantttt tttttccccn aaatttttc ccccttttt ttttttaaaa 180
aaaaaaaaaa aaaaaaattt tttttnaaaa tttttttttt tttaaaaaan ggggggggtta 240
aaggggttta ancccccaatt tgggttttaa ngggttttt nggggggaaa aaagggaaaa 300
aaacccttta ncccttttaan ttttnaanaa aaaaaaaccc ccaaaanttn antttaattt 360
gggttngggg gggggaaaaa aaaacccttt ttcccccagg gccccccccc tccttgggggg 420
gttnaaaaaa ttngggtggg gtgggtccct tccaaaaaaa tttttgggnt tccttgggggg 480
aaaaaaagna aaaanggggg gggggaaaaa ggtcctaatg gaaacccgaa ctttttttcaa 540
acctgggccn attnccatat acccaatggg ttaaaacttt ggattcttat gacatattcc 600
tatgaaaata ataaatactg gccttttcct tgcagaaagc ctcagacctg aatcagagaa 660
aatcatatgc caaagccaac tgccagtgtt agacctcttt ttncataaag agtaaatggg 720
aatgctaaca ctagtgggct tattgagaaa atttaaaggg tgctgtagtg tttagaactt 780
aggctggaaa accatatttt agtgcatcat tttactacat gatcttccaa ttagatagct 840
tgtaatctgg tccttacagc acttgctgnt ggtacatgtg aagattttat aaattttaag 900
gaaaggtgtc tatgatatat agtgaaaagt gtgggaaaag aatatagaaa ataatattca 960
cttctnaaac cattatgata aaaatatttg tgtatnggat taagaataga aaggggatta 1020
tnggatggta tctatttcaa tttctcagnt tatggttngg gccttncctt ttttggaaag 1080
gtacccctgg gttattgcct attggaataa aatggatatn aatggggtaa aaaanttntt 1140
caaaaggncc cnaaaaatgg aaaatnccaa aggaatttcc cttcnttttg gacctanttt 1200
taagggnaaa aga 1213

<210> 3878
<211> 972
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(972)
<223> n = A,T,C or G

<400> 3878

tccaccctga ctcagccttg gtgcagagtg agactctgtc tcaaaaaaaa aaaaaggaat 60
cagtttgggt cttggcagaa atcaacataa gggaatntga caagaacccc agtaggtaac 120
cctgagtgct caaggtccga gcctgtgggt ctcttttacg gcttcatgaa aaggaccgtg 180
ccctcacngg agggggnacc caccggcttt gggctttgtg gggggtctta aggtgnatgg 240
cttgcccttc tttttnttca ntcaacccac accccaagct ttttttggct tgggcacttt 300
nanggggggaa agaagaagcc ancccaaaat ggagnaagaa ttttaaccct ttttttaatct 360
tcccccaacc ggaagccgaa aaaatggttt ttccccccttg gtttncaana agnangggaa 420
agttaaccca ntccccnttt antgcctttg gaacctnggg ggggttttcc ttttttggtt 480
ngggttgggt tttgggtttt tttnctttttt caaatttggg naaattnctt ggtaattttt 540
aaaaaatggt ttattggtcc agccttggaa caccattggg gnacaacntc cttgaaaaaa 600
ggtngacttg ggcccccccc cccctgtttt gggccggtga agttttccgn accaccnggn 660
cttnaaaaag tggtcccttc ttgctttcgt ctntttgttt cncttgcttt tgtaaaaact 720
ttnggtccca agcttgaana cattggcttt gtaaaaacgt ngaagagtca atnccnaang 780
ggggttattt gtcanaaana acttgncctn tgccctttan ccgaangcag tcnaatcntg 840
ccagttggat ttttcttact ggnggaatga caagaaacag ggattnattt tgcncttgcg 900
ganaattttc cgggagtgnc tntttaatat tttnagaccc gattctttga catnttantt 960
gactccaaaa na 972

<210> 3879
<211> 884
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(884)
<223> n = A,T,C or G

<400> 3879
gggtaatatt ttgttttata acagtgattc agtatatctg aattatggat tatatggcca 60
tagaactaca agcaaaaagg atacacaaac aaattttgta gttaagacaa atctgttgcc 120
taagatcaag aaatgtaata gatggaggcc atgtagaggt tagaaattca aagaaatcga 180
ggtcaaaaac tggccaatca taacggcata gggattagtt cctaaatttg gtcacttgag 240
aataacagtg tgaatagagt ggagtggaag atgtgactgg tgttgtttct aaaaatgtag 300
aattgtcctc ttagttgggg tctaggtagt ttttgagagg tgaatataga cactaacttt 360
ttgttttaca actgaaatca aattgattgg taatttgcaa caaaatattt tttgaccccn 420
ccatttatat cttaccatgt atattatttt cactnggntg ataaagccta tgactacctc 480
gtcagaatac atcatttgct aataaattag ggtttactgg tactgntgga aataacccgt 540
ggcattctac cctccgagaa tcctgttcag gtggctgcac cctttcaaaa tccantgggc 600
gtttggccat ttgnaancct tgtnttttttn ccgggggaaa ccaccanggg tcaagtttan 660
ttanggcctt ggcccagtta aggcctggac cgttntttcc ccaattttgc ttggntttgg 720
aaatggaatn gggttttcat ttaattnaaa gaaanttgct tgttttgggg ccccatggtt 780
gtggaaaaag naattcnntg aaattgggcc ggttttgaat tantttaaa tcnttantcc 840
ttaagaaaaa aaattttnga anccntttng ggggccnttg tccn 884

<210> 3880
<211> 998
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(998)
<223> n = A,T,C or G

<400> 3880
aanaaaatta angngaancc tttaaaantt gggcccttgg gancccaatt tnacccaatt 60
ttttaanccc cccaatttgg gaaatttaaa aagggttncc aaaggaaaaa atttancctt 120
tgggggaaa ngggggccca aaaaaaaaaa agggaaaaaa ggaacccttc ctttgggttt 180
anggnttncc tttttccccc aaggggggga agggggggg gggggggaaa aaaaatttgg 240
gttccaaccc aagggaaccc angggggaa tcccaagggg gaagggttcc aatttgggaa 300
ttgggaaccc cttccaaggc ccaaggccca ccttttcttt gggggaaaag gccccaaaaa 360
cccaaattgg aaggggccaa ggtttttttc ttttcaaaaa ggggtattga aaaagaaaaa 420
aataaattac ttggatgcca gccttttctt ttttaaccaa acaatgaatg aagtgtgaag 480
atggaatcaa gataagttca gaaatgcatg actttaatac atgctaatag tggagatggt 540
gcttaaacta aaaacagaag tcatgtgatc caggacgcac aatcctctgg ctgatggtag 600
aatttgatct gaaataggag acatgctgtg aaaccagtct aggatggaac agatcaggag 660
ggttctggtg agagtcttct tcaagaagat gatccgcaga atacccattt gaatgtggta 720
aaaggagtta taaacagctg agagaataaa tctaactcag gggaaataga agtggtaatg 780
tatgataagg tcactctgaa tatgatatat ataatcatgt tatgtaacat tgaatattga 840
tctacccaaa ttatagtgat cttgagaaaa gaatagagat tctacagagt taatttctct 900
tctttgggga agtctcngat actctaaacc aaaatcatga tatgtngacc tgtcagaata 960
tgccaaagat actaatgntg agtgtgcatg gaatactg 998

<210> 3881
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3881
tgtccctaaa acttaagtta ataaaaaata ataaataaat aaaaataaaa aaataaaaac 60
acattntaaa gggggcaatc cagatggcca gtaaaccatt gtaatagcca gaaattggaa 120
acatatattc attgacaaca tttaagatta taatatagtc atataatagt cctgatataa 180
caatggaaat aaattacagc tacacacaac ataatggata agtcttaaaa agccacatgt 240
acagaataca taccatgtga ttctacttct gtgaagtcaa gaacagacaa aactgaaata 300
ctcatgtaag gatgcacact aaggtagtaa aactataaag cagagcaaga gagttattac 360
tataaaagct ctgtcgaggg acaggagttg caattaggaa tatacaggga attctgtggt 420
gctgagagga tttgttgatc tgggtgatgg ttacccangt gtttattcac tttgcaaatg 480
attaagttgt atatatgttt tacttaagtg gtatatttca tagttttaaa aggtttaaaa 540
aatntagaga atacagcctg ggcatggtgg ctaacacctg taatcccaca ctttggaagg 600
ccaagacagg aggccgagtt caggagttca agaaccgnct gggcaacatg gcaaaaccct 660
catcttntgc aaaaattttt ttaaaaaatt taaccccggc ctgggggnca tgtgcttttg 720
natagtnccc agnccccttg ggaagcttaa ggtngggagg atnaccttta acccccggag 780
gccaaaggtt gcantggatc ccccaatgga tgccnctttct 820

<210> 3882
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 3882
catttatatg agcaaaccaa gttttacata acatgctttt ggtatgtatt atgacttttt 60
acatttctac ttggatttcc tcttcagatc tcagtttcca caaatctgca tccaggttca 120
gggcctctga ttctgcacaa atcatatgag ccaagtggat tgattactag acagatcaga 180
tccttcccca gctaataact ctgccttctg attccagtcc tcaaaataaa ttgcagcctg 240
ccatttttctt tatgttttat aagggaggag tgaccacctt ttgtcagttt gcttagtttc 300
ctattctttg ggctcatctc ccatcttttt tgggtagtct tgctaggagt ggttgggaac 360
tctgaagccc cattttccca agttgctgag agctatcaga cttttagctg caggctaaga 420
gctctgttgc aggcctagtg attggcatta aaagtagggc cangaaatct gtcctcatcc 480
tcaaatgaga ccaacagata tgtattaaag tggagctgga gtttgtcctt ccacccgaga 540
ctaccaaggg cctttgatgc ttaatgggaa tgtgtgtcta acttgctctt ctgacattta 600
gcccgatgaa aataaaatat tntatctgtt taagtcnttt ccnaanaaaa ananncaatn 660
ttntnnnngn cnnggngaan ggagnnnnng ggtntnnntt nctannncnn gnnnnncnnn 720
cnannccnnn nggcnccccg nnncannnnt nnnnttgnnt ttaaanaagn cnccnattgg 780
nttnnnnnan nnnnnnnngg gnnanannnn nnccccccngg ccnnttnggg nan 833

<210> 3883
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(863)
<223> n = A,T,C or G

<400> 3883
ggacctggct gcctgctctg acaggtacct gtcatctgcc caccatgggc ttctgggacc 60
tgctgtagcc cctgccaccc actgctgcag acccacccac tctcagctta gctcaaaagc 120
tgttctctaa ctcattnctg acnaatagct gnangngttn ccatgantng cnnttnatnc 180
aactctggna aagagggatt taatttnann gncnctttt nacangatnn aatatgttnn 240
gcnttatggg gnnnnnnttc acantggttt tgaanagaca naagctagan tncatcntaa 300
nacccagatn nanatgnggn natttgcaga gctngtnncc gaatatcggg tgccgtcaac 360
tgattangat tacanttgtt acngtgcagc cttggnatat nggccanntt ttaatntngc 420
caaccnatat acnttgncaa agccnttngt ccgggntatt aacttgggna ncncngcann 480
agnnacngnt tnncatggan tntgggcaaa gcgngacttn gtttnaatan nccaanggan 540
ataatggnna attttaaang annntccctt tngtganana antccaaggc tccattgttc 600
tgcccngttt tttncnattt ngtatcccaa aatgttgtgn annctttaa naaaccaant 660
ggggaaattn gaaccccnctt ttccanctct tggtgaatat tnttnnantg gtttaaaatc 720
ccanttccta aatcnnaaat ancccctggg gggnatncng aaaaagggcg ntttgaaaaa 780
aaannngaaaa naagggggna caatagtttg aaagggnngt tttttcnant tnaatttgga 840
aaggtnntnn tanggcaacc cct 863

<210> 3884
<211> 904
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(904)
<223> n = A,T,C or G

<400> 3884
taggncgttt gtatncaaat ggtggtaggc ccggcctatc cactgncaca aagcgggcaa 60
tggcccctca agaaccaaga tgatatcacc ctccatcaag acagctcgga aaagtaaaag 120
ggcatcaggg gctggaggat aaaatgatta tgataaccca ntggtggatg tttgnttata 180
tcaagtcaac ccagtattaa aggcctgcct gatatacaac cctcgaatgc aacacagtgt 240
ccttctgagg ccactctaaa ggccangaaa ggtttgctaa gaagtctgtg ctgttaaaac 300
agaagaaaaa gaccttatcc attntctgtg ctggtggtat agggtagatt cataaaaaag 360
aaggcaaaat atttcaaaat gatcaagaaa tntgcaagat gcaagacaga gtctcaagac 420
agtgccagga caggatagca ctcataacat ataacactgt gtantgctgt tgagtgctgg 480
ctgttgttga gtgctancta ttggttgagt gctttgttgt tgagtgctaa cttgcttgag 540
tgctanctgt tggtgantgg cttggttggt tgantgctaa ctggtggttg aatgccttgg 600
ttggttgaat gcctaacctg gttggttgan tggaattggt tggttgaagt tgccttaacc 660
ttggttgggt tggaatggcc taanccttgg ttgggttgga aangcctttg gtttggtttg 720
naaatnggcc ttaancctttg gtttggtttg gaaatggcct ttggtcccct tggcccctng 780
ggggcccccc gggtttttttt taaagccccc ttttgggatg ggtacccaan tttttccttn 840
cccanttttt aaaccctttt ccccccccaaa ataaaacccc cccttatntt aanggggccc 900
ggcn 904

<210> 3885
<211> 911
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(911)
<223> n = A,T,C or G

<400> 3885
atatccacgt ctcagtcggt ggatgggtaa tgggatgccc gcttccccta ctccagatga 60
ttgatgaaga aatggaggtg tatggagatg aggtgacttg cccaggatca gagctttaag 120
tgacagaggc aatattggaa ctgaggtttc cctcattcaa aagccagtgg tgcttgtttg 180
cactgccaca ctggagcaga ctaactgaga ccgctcttga tgggtccttt tctacgagag 240
gctttgcctg ccacctgcca gcatcaggtg atcagaagat gtggtatgaa gaccattcag 300
cccgggcgca gtggctcatg cctgtaatcc tagcactttg ggaggccagg gcgggtggat 360
cacgaggtca ggagatcgag accatcctgg ctaacacggt gaaaccctgt cttctattta 420
aaaaaaaaaa caaaaaacca aatactcagg gaaatagccc ttcagnttnc ttcacccact 480
tcagaaaaaa tagggaaaag gaaaagaaca gggattggga aaaaggaaaa aaagnaaaaa 540
ngggganggga tccgctttta agcccttang gaggttttta aagaattaag ttcttggggg 600
ccaaatanta agtnggagga ancccctggg ccttctttan ttttaaaaaa annnnnnnnn 660
nnnnnnnnnn nnnnnnnncc tttcgaagcc ccttttaaa aaacttttta gggggggtc 720
cgtantttac cgtnngaatt ccccgnacct tggntaagga tnccnttggt tgaagtttng 780
gaccaanccc caacttgaat gccgtggaaa aaaaatcntt atttgngnaa attgggagct 840
nttgcttttt tgnaaccttt ttagntgcat taacaagtta ccaccaccat tgcttcnttt 900
ntgttaggtc g 911

<210> 3886
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 3886
tcacctctct ccccaagaaa aacatgtnaa atgcnagact gtgtgctctt aatgacatct 60
atattaaggg atctgaantn tccatcataa atgaacatgg tacttaccaa atatcttctg 120
ataantcatt cagtgctcag gntctatgtt tnttctcctg tccaagagtg aacaaactac 180
acatnaccaa aatattgtaa ggctaagnaa taataacggt gactgnnaaa atgggaaatg 240
agatagcgtc aaacgtttgt gacaaataaa agcagtcacn gtaaacactg gnctttncan 300
ccccatnaat gatgactttg tncccaactt gnattcccaa cngcatcnca aanagtaaaa 360
ngagtcacat ggganataaa acatcatttt tatcacaagc ttataacggg tnatttttt 420
ctgactntgn gttggagggt aannggggctt gctnatattg catgcagcan ngaacttacc 480
cgncatatgg atgcctccct ctatgctagt ggtcctcncc tttatggccc anggatcana 540
ntcatggaaa gacaggtatc cctgngggaa ggtttnggga tgaaantggt tcaccttaaa 600
tcatcaggca ttaaaattct cataaggcat gtgcaancta aatctnttna catgtgcagt 660
tnacaaggaa nggggtggca cttcctctga aaaatctaat gcctccctgg tctgccagga 720
aggtacaact tggnttggga angnttgnnt tggtcncngg tccacatcct ggtgngccgg 780
ngnggntncc canaaggccn ccggctggtn ncnaattan 819

<210> 3887
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)

<223> n = A,T,C or G

<400> 3887
gaactgaaag atgatgcaca atcagtagaa actctgggaa agccaaaagc gaaacgaatc 60
aggacgtcaa aaacaaaaca agcaagcaaa aacacagaaa aagaaagtgc ttggtcacct 120
cctcccatag aaattcggct gatttccccc ttggctagcc cagctgacgg agtcaagagc 180
aaaccaagaa aaactacaga agtgacagga acaggtcttg gaaggaacag aaagaaactg 240
tcttcctatc caaagcaaat tttacgcaga aaaatgctgt aatttcttgg gaagatttta 300
atgtacacct atttgtaaag tcatcagaat agtgtggatt attaaatatc tagtttggaa 360
gaaaataatt tatataaatt attgnaaatt tttatgtaaa cagaangtct tcaataagta 420
aagtaactcc atatggagtg attgtttcag tccaggcaat ttttctattt tatattaaga 480
cttcatacat ttatatatgt aaatatggct tattaatgga atgttaaata aaatgtatac 540
ttcaaaaaaa aaaaaaaaaa aaaaaactcg agcctntaaa actatagtga gtcgttttcc 600
gtagatccaa ctgataagat acattgatga gtttggacaa ccacactnga atgcagtgaa 660
aaaaagctta tttngaattg tgatgctatg cttattggac catttagctg cataaacagt 720
tacacacatg cttcnttatg tcagtcaggg gnggggggagg ttttatccgc c 771

<210> 3888
<211> 1232
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1232)
<223> n = A,T,C or G

<400> 3888
gatttgaatt cnatacanct acttgttctt tttgcaggat cccatcgatt cgcccaggga 60
atgctggctt cctcctattg ctattccttg cctttcctaa tgccttgaat cagtgcattc 120
attcattngt tcatttcaat cangaaatat ctgtttagca caaacatatg atatttattt 180
atctaaagtg ggaaaaagaa atattnggna tntcttcaag tggtntgggt nnnctggctt 240
ccctggagga atttttaaaa aaccgatnnc caaaccattt tttttttcca ccnagnccaa 300
gggttttggg nttggcatta ttggttattn caaaaaaagg gttcncctta aaaaggaacc 360
accaaccccc tttttttaac cccccggttc caaaattttc ctttacnaag ggtccggaan 420
gtnccaattt nttttttcct tnaaaaaaaa naaaaanaaa aaagggaaaa ttgggtgggt 480
tttaaccana ccaaattggt ttttaagtaa aaaaaatttt ttttaanccc ccancccaaa 540
aaagngttgg gttggnccca nttcccccca naaanggggg gggnanattt tttttnnaaa 600
aantttttt ttnnnnnnnn nngggggggg gggggcaaa aaaaaatttt gggggaaaaa 660
aaccaanggg ggccanaaaa atggggttcc nttnaaaaat tttaancccc ngggggggggg 720
ggaaaccccc caatttggaa aatttanttt ccaaaacgtt caaaaaaaaa tttaaaattg 780
gnggggtnaaa ttaaaccctt ttttnggggga aatnggggggg ccntttaaaa aaaattaaac 840
cctttaaacc cttngggngg aatttcccaa nttttaaaaa attancccca attttnnggg 900
naaaatttgg gggnaanttt tgggaaccct taantttttt ttnttttgg gaanccattt 960
gggcccgnaa aaaaaaaata atttttccca aaaaaaacca anttaaccaa gggctttttt 1020
ttaaaaaaaa aaattggggg gccnttnttg gaaaaaacca aantnggttg ggctancccn 1080
gggttggccc acccancccc aaangggggn ccccttnggg ggggttttttt ttcttnaaaa 1140
ngggnaaaaa atccttttttt ggagggccaa anccgggggga ancccaaaaa anaaagggtn 1200
ccccnacntt taccaagggn nnaattgtgn tt 1232

<210> 3889
<211> 835
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 3889
gagcctgatg cagcttgtct gtctgatgct tttgttcccc atccacgtcc cccccagtgc 60
tgaagctgtt tcgtgtgtcc ttacagtgtt tcctctgcac ttccacttgt ggttgataag 120
tggcaggggg acaataaata gagttgatga aagatgggct tgggcagcag tgggcccaag 180
tgaggcagaa atgagaaaag gactcctggg gcagaggtgg agtgacaaag ccttgagcac 240
gagggtgtga aatgtgaact tggtgctgac ctctattggg cagccggggc accacggagg 300
tggatgtggt gtcagtgaga ccagtgagta attttagcag agatacttta gggatgactt 360
ggggagggca gcangctttt ttaaaatata tatacttccc aaaataacat tgcttcagag 420
tagtttccta actgccctgg gacaggcctg agatcctgtc ccagggtact tgggggcac 480
atcctgtctt agggagaggt attcacctnc ccattcccat ccccagtcct ggctgctttt 540
cctaaatgca tcatttatcc cccacattgc cccattctaa cccatatcac ctctttagag 600
ataccttncc cttcattgag ggagcatncc tnttataacc attaacttcc atattctggc 660
tgggtttctt ttaaaagcac ttgtgnaaaa tttnggaagt antttaattt ggttaaaacc 720
ttcattggcc tcttttcctt ccatttaaaa aggngaacct nccttgaaaa acaaggggac 780
ccgggggga ntctaatant aattcacctc ttggattccc ttaancccc taaac 835

<210> 3890
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 3890
tgtgatgaaa agtgaagctg ataagggtat agtggtgact tagggtgctg atttagagtt 60
nggtcagaga aagtctttct tgaggagctg tgtgagggtt tgttcctatc taaaggcnca 120
gaggagattc aggcccattg aagatgagaa aacnctcctg gacnacnttc ccacttttt 180
tgtaggacac tgttttgtna aaatttacat atatggctaa atagtctgaa actatggntt 240
cantggaanc aaccggtatg tgcccatgga agagttttcc caggaaaaga aaataattca 300
ttacagnttt nctggcnctc tgaaaaggga ccaggagctg ggaactgctg aaggctaagc 360
tgctgctatc tgtggnctca aatggagagc cgctatgaaa atgctgcttg caaggggcac 420
attatataat tctatggggt gatatcccta attttagaat ggaatgaacc taaactcttt 480
tctggantat gtttttggat ttagccccaa aaaatgcctg gggganggngg anggaccccc 540
ttaacttacn agcccatttg gcntggttct ttggggcatt tggccngcca gaaganggaa 600
ccagcccctt tttacctttc atctgaacct gggntggcct tttttttta aaggnnaaat 660
nnnnnngnna naaannnnna aaaccttggn ncctttana actttagngg ngtccgtntt 720
tncgtaanat nccacacttg gataagnntn cctttgatgg aggtttgggn ccaaaccccc 780
cccttggnaa tgccngtggn aaaaaaaang cctttntttg ggggnaaatt tggggangcc 840
ttttggcttt attttgggaa ccntttntta ggctggccan 880

<210> 3891
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 3891
tcatagtcta aaactatcac gtctgagttg ccttaggatg acagtgctga cacccagtag 60
gaagtatccc atttttatca ggaaagtcag tcacgcgtag ggatggtgag gagacgcgta 120
tggatggtga ggaggggaga ggagggagac ctgctggtgc ccttgcacca gggtgaggcc 180
tgactcacgc tgcttccccc cacaggccct gctntgcttg cctgcttttt ccagaatcga 240
ttttgcaagc ttcaagattc tgttcccctc ttcgcacaag tgaggaaggc aaatactcag 300
ggtttgaang gagacctgcc ggcctgaggg ctggcaaatg tgagggcagg acacctggga 360
tggactcgta ggctgaccca ggcccaaagg gggctgcctg ttcccaactc tttcactctg 420
taacccattt taaaatgagt ttttgaatct tgcctcaaat tgacctactt ggataaaatc 480
agtgcttttc ctaacttgat tttgtttgac gtggttccct ctaagaaaat ggtaggaatt 540
gaaactattt gnatatgttg aaatttgtag gggttcanga cccatggcag aaacacttaa 600
actatttatt tacagtatga ctatttttt tcaaagtngg caattctttt gtatatttta 660
aggcaaataa tcactttacc ttttggtgcc ttncatgcgt cgcantaagc actcttgtca 720
atcatggnaa ttgggaaaaa aagatgtcca tttagttaaa caagaaaaca ctattttgta 780
ncatgaattt agaatggggn ccttttaa 808

<210> 3892
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 3892
gaatgtcttt gcttgaacac cccagtccac accttcgtgg ggcatgatga tgtggtcctg 60
gagttccagt ggaggaagca gaaggaaggt gagtgggaga ggcctgctgc ccactttcct 120
tctgagctct ggtgacagcg gtgccagtca gtgttgccat ggagtccagt aaagaagaca 180
tagagagagc tgggctttag gaaccagaga gccagggctg ttgccacctt tcgtcatang 240
tgagtaaagg gactatatag gctgctgtta ctcttccaaa ttctgtcctc ttccacaatt 300
gtcagcgtag tctctcttgc ttggaagaga tatgctccag taagagacgg aagatagaga 360
tttgctgttg gattgtttct gggactgaaa gactctgggc tcacaagtcc agggcatttg 420
ccccttgcca ctctgttgat ganggagacc caaggtggtc tttagtactg cctactacat 480
accctcagtt gtcttcacaa gcatgtagtg ctctgtctca aaaaaaaaaa aaaaaaaaaa 540
ctcgagcctc taaactatat gagtcgtatt acgtagatcc ngacatgata agatacattg 600
atgagtttgg gacaaaccac aactagaatg cagtggaaaa aaanctttat ttgngaaaat 660
tggggatgct attgctttat ttgtaaccat tataagcctg caataaacaa gttaaccacc 720
accaattgcc ttcatttttt tgtttcangt tcaggggggg nggggnggga ggtttttaa 780
ttccnggccg gggggcccat gcatttgggc cccg 814

<210> 3893
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 3893
taaactttat tctttttgtt atcgtttgtc ctctggtagt gatcagtggt cagtctttga 60
aaagaaagga cctatgaact caactttagt tacagcaaag aaatgagtag gagacggagg 120
gaatggccag cagccattga agagggagag caggctgggc ccaaggggga cccagtattg 180

gcagaaagga aagctcaggg tgtcaagtgg gcctgagaag ggatcatctg gctgaacaag 240
agaggtccac atgtagctct cagcacacac ttgtgcattc cagcttcagc atttgctcac 300
acgagttccc cgcctaaaat gcctgacatt ctccctctct acttaactca tgtaataaat 360
ttttactgaa tgcctgtaag tgccagcttt ctgaacagag ttggtcacag ataaaggtgt 420
gttgtagagt cattaaaatg gtcaggtatt tgactggatc tccagtcgga aaaaaaaaaa 480
aaaaaaactc gagcctntaa actatagtga gtcgtattac ctnnatccag acatgataag 540
atcattgatg agtttggcaa accacaacta gaatgcagtg aaaaaaatgc tttatttgtg 600
aaatttggga tgctattgct ttatttggaa ccatttntaa gctgcaataa acaagttaca 660
accaaccaat tgcnttcatt tttntgtttc aagtttcagg ggggangtgg tngggaaggt 720
ttttttaatt tcncgggccg cggcccccaa tgccnttggg ccccgggacc ccacnttttt 780
gttcctttta ntgagggtta attgcccccc tggnggtaaa catgg 825

<210> 3894
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 3894
gccatcctac attccagtga gggttgctga aaaaatccta tttgttggag aatctgncca 60
gangtttgag aatcaganng tgaacctgnc tntanangga tccattttgc aaaaccanga 120
anacacttta tgctgcacta gctgcaccgt cctcangcag nanccactct tcagctaagg 180
tggactactg aacaggtggc ggatcgcatt angcagcact gtggctgagc atctntngaa 240
ncnnatggtg gancaancnn nttnactggg tnnncngaag accatnnnat acnttnacct 300
nttgggacca tganaactgt ttccagcccc tantgacgca gcgaaacaca tgtatgaaaa 360
caccanccac tggtagtact gatcatgatg tgaagtgtgg cctntctaca gttaacngcn 420
cggtgtattt gctatgatga tgacaccttc ttcctctgtt gncttgacgn gcgnccntac 480
ggcaaggagc gcaatatatg tantcaagcg ngagaagggc cttcnctgnn aacttntacn 540
cgnaagcccc tgntatggct gggnngccct aagtctttnc tacaangtac aggaggcccc 600
ttcataaaac tcttcacccc acatggncct gnaaaagnac aaagtggntg ttaagnctct 660
aacttgatgt gcgnccgggn gcannctgag cttgcaggac ttgctgggcc ttnaaaangc 720
cngggcnagg aanttnaagc tngaannana aatgangcca atcnanttgg gnccnaancc 780
aaatcanctg gggtttttgg gngganaaaa tcccnggact ntttnccggg gttttn 836

<210> 3895
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 3895
tgaagacact gaccttgtcc cgctacatct gcgagatgac cctgcaggaa taccactatg 60
tccaggagaa ggcttccaag ctagctgctg cctccttact cctggccctc tacatgaaga 120
actcggatac tgggttccct tcctggacat tacagtggct acagtatctc tgagcttcac 180
cccttggtca gacagctgaa caaactgctg actttcagtt cttacgatag tctcaaggct 240
gtgtattaca agtattctca cccggtcttc tttgaagtcg ccaaaatccc tgccttggat 300
atgttgaagc tggaggagat tttgaactgt gattgtgagg ctcagggcct ggtactctag 360
cagcagccac agggctaagc atgcatgtta acagggtata tttattctat gntcgaattt 420

gcttttgatc gcttttattc atttttcctt tctttgnctt ttcccaaact gataatgnta 480
taaatattta tgttgcttgg ttttatgaaa gaaaaaatat tgncatattt gactacaaat 540
ttaataaaaa aattaatggg tattggtaaa aaaaaaaaaa aaaaaaaact cgagcctcta 600
aactatagtg agtcgattcg tagatcngac atgatagana catgatgagt tngacaaccn 660
cactagaagc cggnaaaaaa gcttattggg aaattgggat gctatgctta ttgnaccatt 720
taactgcata acaatacaca catgctcttt ttgttaggtc ngggngg 767

<210> 3896
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(961)
<223> n = A,T,C or G

<400> 3896
ggagatgaag gttggcagca nctggtcatg aangtgttaa caaggggcct tcactgggct 60
gngcgganct nctgaagatg tttgcncaag agaagggttn ggcctggtac acatnaaaac 120
tcctgggacc tcggaggtga tcgagcctaa ccnggggcca tnntacagat atgaagactg 180
agatgaagac aggagaaggg ncatgctgng aagtccatan actgggcctg gctcctgggg 240
taaactaatg ggnacaaann tctgangatt cctgcntana ccacnaaatg gacagggnca 300
aggcccntga tggtnagccc atgcctgaca ctgacnantt nacagnccaa gaacacagng 360
atgaagaata aaaagtggta caatcggntt cacttgtgcc accaggatac tttcaatgat 420
tgcnttcctg tnccacaaan ttcttttant cttgggcggc gacncaantg anggannggg 480
gaacttatnc atggacgccc ccttttttctt cgantgggan ggaccacttg aaaacttcat 540
ggaaaggccc anaggtttac attggccccc cattgnacct tgagcccnaa gcttgggnaa 600
tccaggaacc ttngggaaat ttggggccnc cttggnnggg cttgaccccc ccataanaag 660
gttccaagnt gggcccccnt gccttanggg atnaaagccc gttttaaacc aacaatttan 720
ggggttaaag ggttggccct ttttcatngc ccccccccntt naagngtaaa aanaaanggg 780
ggnacccttn tanaaaccnc catngggaaa aaaaaaactg nggggccttg gggnccccct 840
ttggggaatg ncnccagnag aaatncccna ggggccttna aaacctttttt cctnggggcc 900
aataancctn aaantttgct ttnttttaaa aaaanattcc ntggaacann gggggggaaaa 960
n 961

<210> 3897
<211> 832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(832)
<223> n = A,T,C or G

<400> 3897
gtttgcangc tcatggagga agcagcaggg aaaacctggc gctgcaaaat gtgcaggctc 60
gaatacggat ggtcctcgcc tatctgtttg ctcagttgag cctctggtct cggggtgtcc 120
acggtgggct cctcgtgctg ggatccgcca acgtggatga gagtctcctg ggctacctga 180
ccaagtacga ctgctccagt gcggacatca accccatagg cgggatcagc aagacggacc 240
tcagggcctt cgtccagttc tgcatccagc gcttccagct tcctgccctg cagagcatnc 300
tgttggcgcc ggccaccgca nagctggagc ccttggctga tggacaggtg tcccagaccg 360
acgaggaaga tatggggatg acatatgcgg agctctcggt ctatgggaaa ctcangaagg 420
tggccaagat ggggccctac agcatgttct gcaaactcct cggcatgtgg agacacatct 480
tgcaccccga gacangtcgc ttgacaaagt gaagcggttt ttctccaagt acttccatga 540

acagacacaa gatgaccacg ctnacacccg cgtaccacgc cgagaactac agcccttgag 600
gacaacaggt ttgatcttgn gaccattttn tgtcaacaca aagctggcct tggcaagttt 660
cggtgcatan aaaaatnaag tgctacaagc ttcgagccct ntanaactat agtgagtcgt 720
nttacgtnga tccncacntt gataagaatn catttgttga gtttnggnca aaccnccact 780
tggaatgccg tggaaaaaaa gcttttnttt tgtgaaaatt ggggaaggct nt 832

<210> 3898
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 3898
cttaatgtta tcactcattg aaaagtttct tttaaaatta tatatatggc ccaatcttga 60
actatcttat tttggaaggt tttatctatt tttaatttat gtcctcccgc ctttctcata 120
cccagctcca caagaaaata cagatctgca gaaaatgatt tgaatgccta ctttctcact 180
cgtccaagga tgatgctgca tagctagtac cactctagat gcttggaaga aaagttaatt 240
caatcaacag atagtgcatt agagtttaat tcttttatag aactccattt gagaggggct 300
cttaaaaatt aagagcatgc ataccaaagt ataataaaaa aaattaagaa caaagatgta 360
atggcttact gcatgagata gaaaacaccc atatattgaa aattgagtct ttagggctag 420
tttttatttt attttatata tatatatata tatatatata tatttttttt ttttgagaca 480
gagtctcact ctgtttccca gactggagtg caatggcatg atctcggctc acggcagcct 540
ctgcctnctg gcttcaatca gttctcatgc ctgtagtccc actgctcang aggctgaggt 600
gggaggatca cctgaatgag ccttgggang ncaangctgc aatgaaccat gaacacacca 660
ctggactnta acctgggcaa aaanantgag aaacccgttt caaaaaagaa aaaaaatctg 720
gaataaccta ttgggccttt tggttaattn nnaaangnnn nnnnnnnnnn nnnncnnann 780
gnnnnnnnnn ngnnaaaann nnnnnnnnaa naaaaaaccn n 821

<210> 3899
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 3899
agttttaact tgaacccctt cagtcaggat gaacataaag ctctcaagtt cttgaaagga 60
tgagacacaa gaataagatg gggtaccagt gaccagctcc tctacctggg gtcatggagg 120
accgaagacc ctccaacctt gatgcctgta aggacaggcg ctcctgtaag ggatcaggtg 180
taaagaatct ggccatagct cctgtacaaa gcctctttgt ctgaagtact tgggtgctct 240
ttgacggcag gagggaacac aacctgtcgg tggctgctgg acctcaccac gggggctcag 300
tggacataag atctattgac aggccctggc agtcaccant gggtgtgtgt ggcantggct 360
gtggggtgtg agaatgactg caacaggcac ttctcaacaa tgacctgctg ttcacatggg 420
ccctgagcan ggaggaaggg agagggacaa tggaagcttt gttccagcat tcctcttana 480
aaggggagag acaatttcan gcaggtgtna tggaattgga ataaaagcag gangctcaan 540
gggtgggttt cttgagtaaa aggacaaaaa tcgtgggtgc ttttgtnggt tcaaccacaa 600
ccctttcatt gggccagaca ccccacattt tttttcccta ctggncttcc attttttgcc 660
cccttttttt ncttaccttg ccttnccaaa aaaataagaa tgcttgcttt attaaaccca 720
ttttgggggg cttgcttctt ttgggtcaag gaaggggtgn ttgcaaaaaa tnccttccnc 780

ccangggatt naaatgaaat ngggttgttc ccccctggag ccttnttaac aacctttta 840
acccaggtgt tcaaaaaaat ttntttcccc ccncccnccn t 881

<210> 3900
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 3900
ctctgcagtc tcttaagcag attgactatg atgcatgtca cataaaacag ttttctttct 60
gttctattgt ggagtttttc tggggctgga gaacattctt ttgttatttc caaacactgt 120
ctataattac canacatgat ataaacacat aaggtgccaa ctggaattta ctctagaggg 180
gactttccct ctcagacttc cagtcaactc acacttgtgc aacaaagtgc atgctgtccc 240
ctaaatatgc aagcagaact gtgtttctgc ctatttggta tctatagtcc tctacagtca 300
cttctanaga gactaaacca aatttctacc aacttcacag ggcaacaatc aatagtttta 360
tctcaatgac tcttgtatct tcagacctta aactgattca nagaccatgg ggcccacaaa 420
cctaatcaga gtaacgtttt cattgagtac acattcanac atgagaatct tcactttncc 480
ctttttctc ttggtaaaat gttcacaaat gtgcaggtaa cacctgctgc tactccagcc 540
attcnggccc taaatctgca gctctacatt ttgtatctag gtcttgagaa ttgggaaata 600
gaaaattttt atctaaaaat gcaggtcctt ttggttatca aactcagaca ttgaaatgaa 660
agtgcagnta ccccttctc ctcctttgna atatgnattc atctcttgga aactggtcac 720
tattggccnc aagtagatgt atattnaact ggttatancc acattggaca ctggttttca 780
taccctnaac cctaaaggaa tatggcccaa ca 812

<210> 3901
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 3901
actttatatg gattctctaa ttttaatctt caaaatgcta tctaatgtct cattaagact 60
tgcatataat gtatcttaag tacagtcatt aaatatagtt tagggagatt tatgttcaga 120
tattgcttaa agatgtttta ataggcccat ttactctgat gatattaatg agctcttaat 180
acagactaag cttctaaaac tagtggtaaa gactcccagc ctgaacacaa caacttggaa 240
ttaatgcctg ntttggacag atgcctgagg gtgagtcctg cacacactcg agggtcancg 300
cgagcccctt gctggatgga gccttgtttc anaaaggggc ctcctgtaac gggctctggc 360
tgctgactcc agagcaccca ttcttcggcc agcctgagta ctgtcttttt tctcccccaa 420
actgtgcaca ggacatgtgc taactaggcc gaagtacctc tccaaggtta tttgagaagc 480
gctgatagcc ttggcggtgg cactgnggcc tgtgaggggt taaaggangc tgttgctgaa 540
attncgtgga agcatctgcc aagtaaggtg tgcacagact ggcatcgtta cntgaaacaa 600
gcntnncctnt gncaccaagt gaactgnaaa anggcacatg ggtgtgcttt catcttttan 660
gcattcatcc tancttgaaa tacatgtaat aaangngncc tgcttatttc aacntcggaa 720
ccnnaaanaa angcnnnaaa aancctcgan cctttaaaac ttttntgagt ttttttttcnt 780
aaatccaaac ttgataagaa acattngtgg agttn 815

<210> 3902

<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 3902
ccaaactaga agctgtcagt gacaataact tggaattagt caatgaaatt cttgaagaca 60
tcactcctct aataaatgtg gatgaaaatg tggcagaatt ggttggtata ctcaaagaac 120
ctcacttcca gtcactgttg gaggcccatg atattgtggc atcaaagtgt tatgattcac 180
ctccatcaag cccagaaatg aataattctt ctatcaataa tcagttatta ccagtagatg 240
ccattcgtat tcttggtatt cacaaaagag ctggggaacc actgggtgtg acatttaggg 300
ttgaaaataa tgatctggta attgcccgaa tcctccatgg gggaatgata gatcgacaag 360
gtctacttca tgtgggagat ataattaaag aagtcaatgg ccatgaggtt ggaaataatc 420
caaaggaatt acaagaatta ctgaaaaata ttagtggaag tgtcacccta aaaatcttac 480
caagttatag agatccatta ctcctcacag gtatttgtga agtgtcattt tgattatnat 540
ccatacaatg gccacctaat ccttgcaaag aagcaggatt gnagttttnc aaaaggagag 600
atcttcanat tgtaaaatag agaagatncc aaatgggngg caggcttncc catgttaaaa 660
aaaggangga aaccnctggt cttcnttnca agccaattnc tgggaanaaa aaaaaaangg 720
cttttgttaa aanaaactgg ggacaattca agganccttt ttgggggact ntaagttgcc 780
aaaaaaaaaa aaaaaaaaac tcggnccttt taaactntng 820

<210> 3903
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 3903
tnnaanctaa tgcttggcta cttgttcttt ttgcaggatc ccatcgattc ggtgagccac 60
tgcgcccggc caaagacact ttcaaatact catgattgga tatgcctctg tgattgacag 120
tgagatttca aatgggttaa agattgctct gcaaagaggt taactgttga gattgataca 180
ggctatcttc aacatatgta cattgctgta tatgacattt acctaccatt gtgcatctgg 240
gacttcctga tggaccacag gaattccctt ttcttcccat tctcttccag atctttcttc 300
tacttgaaac cccttatcta caaaaatgaa taaacaaccc aatctcattt ctgatcgtgt 360
cctggaattg atctagggca aggtctggag aagtggtggg agacagcaga cagcttttgt 420
tagtcttcta accccagcac tttctcagcc tcatctgtgt gttcctgtct cactctgcag 480
acctcacttc acaatgctct tcagatcctt taatgaatag gaaattgatt ttgggtattt 540
ctataaaata cagcaaagtc ttagaaactt gcagtgtcct taagaagaaa gatcccttct 600
tatctccctg ccagtttttc tttctttatg gctcaaacac taactgattt tgccatggag 660
gtattgngct tcanactgct tttggtgaac tgggttgagg acataacccg ttgtctggta 720
tatttt 726

<210> 3904
<211> 797
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 3904
nnancntgct acttgttctt tttgcaggat ccctcgattc gaattcggca cgagggaaca 60
tgcaaagcag tagccctctg aggagcagag ttaaggctag tacagaaaag acttttcctc 120
ccaaaacacc ttcagtgttt ggagaggcta ttatgtcaat aagtaaagaa catgctactg 180
tgaaaaaggt acaggaacaa aaaagagttg ccaaaaataa aaaatattat tgtaaggtaa 240
aaaatttcat aaatgggcct aatagtggga tggatataac tgaaaactaa gatggtgatg 300
aggaagacag tcaagaataa atataccaaa gtagcaaaga aatacctgtg caagtagaat 360
agcttgcttc aaacagatga gatttgtcct cccaacatca aaacatatca caaaactaca 420
gtaattaagt ccctttgagg ccagcactga ctgggataag caaatagata aatgggatgt 480
aacaggcctt atttcaaact aataggttgt tcaccaactc ctagttggat accctgctat 540
ccattatgaa aaagaaaaaa aggtaagttc tcatcttaca ccatacttaa atttcagatg 600
aattaagtat taaacataaa aattaaatga aacatgggtt tncctgggga ttctaagcct 660
actccaactt ggaagctgca aagttggctt tgtgntctac atgggaaaaa aaatagaact 720
gcaaaggaga atatttacta ttgactactt aaacttaaaa tactacatga cangnnctgt 780
aaaatagtta aagatat 797

<210> 3905
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 3905
gtgnnnnnnt tgaatctttg ctactaanng cttggcnact ngttctttnt ncaggnagcc 60
catgcgattc gaattcggca cgaggggaag gtctggctcc agcttgagcc cactcacagg 120
atgtcagggg gaagtgtgac taaggtcacg gccacgccac gtggtgggcc agctggatcc 180
agagcagggg ccgttgtggc cacacatcct gagtttccat ggtctaatgc agtgggcttg 240
aaaaaaaagg gtggatgcag gatgctggct gggactgtgg agtgcgtggg cagtaagtct 300
taagtgacag tgggtggaga ttacagcatt tcatctgctt ttcctttgac acctttaaa 360
gatacaaccc acagttttca agggtttatg ccaatgtctg ctagagggat cttgcagtag 420
atcttaaacc ctatagtatt cttaagagca caaggaaatt cttatttggg ttccatttac 480
aacaaaggtg gaaatttaaa actaggctga gaatttgaaa tgctgttcac attaagcagt 540
ttattagggg gttattttga aatcgttctt taagtaattt taagatgttt ccacatctca 600
aaaggatnca tacatttttc ttcatttttc tttggagaat gtctgttcaa ggatgtttac 660
caggtttggg ttttcaaaat ttcagcggct tttatngngc tggcattcca ttcgacagat 720
tggaatttgc cccttanagg aaatgggaat gttttt 756

<210> 3906
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3906

agagnnnnnt tnnntcttan ctactaangc ttggctactt gttctttttg caggatccca 60
tngattcgct gtgaagacct ggaaacagnc aaaaaagact tgccaagctc cagactgtcc 120
agctggatga agatatgcaa gacttatgaa ctttatttcc tcctcacctc tttttggcat 180
cagcggcaaa tcttttcatg aagccccaag gacacaaaac attttcccat ttaaaggaaa 240
acactctagt tttgcaagta tatgcataca agagacttta gattgatctg catgaagatc 300
acagttaagt atacaggagt agaactgcat tattgcagcc tttttgttca cttataaatt 360
tctcttttaa atagatggag acaaaggaca aggtgaaatg tatcaagtca aagtgaatca 420
tttagttgac tctataattc taaggtcaaa atggaacttg atagtttttt aaattaaaaa 480
atgtatacac ctaacataga aaattaaaga tagctgcaga ccattagaaa taatacaatt 540
gtntntgttt acttttactn catgggcatt gaaaaggtta agaaacataa atggtcatat 600
ttttaaaggt aagtacatgc atatatatat gcacacacac ctnttttca gcatttttt 660
gaaaaagtct tggggtctca aacacatttg nctcaaccac attttncnaa atgtgattct 720
taatacctca atnttggctt ganaaaagtg ccngg 755

<210> 3907
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 3907
agagnnnnnn ttntatctta tgcctaatng cttggctact tgttcttttt gcaggnatcc 60
catcgattcg aattcggcac gaggccaggc taatttttgt atttttagta gagatggggt 120
ttcaccatgt ctcaaactcc tgacctcagg cgatccaccc acctcagcgt cccaaagtgc 180
tgggattata ggcgtgagcc accgcacctg gcctatgagt ggtcttttaa ttaggaacaa 240
atctaatgga aaggagagtt gactgaagtt ggcccacagg attgtgagct gggcagtgcc 300
ttcatgaagg cttgccacct tgggacgccc cagtttactg gggtgtcttg cggagtgcag 360
aagctttctg gcagctgcct gggtttggcc agaccctgcc tcccctcccg ccggccaacc 420
cctagtcccc ttcctgtctc cacttgcatt caggggtggc tgctgttctg agaacattag 480
aactgggaag agagatggga gtcacatgga tttttggtgg gcattattct gaactttcgt 540
atccaagtta gtccccctta ttccactgtg ggcattgccc gtctaagcag ttacctgatg 600
cctgctgctg aaanctgctc acaggangcg gcggcggccc tggcactgnc cttgcattag 660
ncttgngttt gatgtgttct tgngaattac tttgtcagac aaaatattac ccgttgggtc 720
angaattctt ttactccc 738

<210> 3908
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 3908
agtttnncta tgaacncttg gganctcaan ngcttggcta cttgttcttt ttgcaggcat 60
cccatcgctt cgaattcggc acgaggtttt ntgttatagg taacaggaaa acaaactaat 120
ncaagtggta atgtgtccag ctaaaaattt gggttctgtt aaggttaaaa gaaaatttga 180
ggtanccagc agtatctgcc tcagatgctg anaagcctcc tgagataaga gcgtatacca 240
tgtccataac tgaagtttta acattctntg ccaaacagaa ccagaattta agggcaggag 300
aatttgcaag atagaatttg caatttgcaa gagggaattg caattctgca agagaggggc 360

aatttgcaat ttgcacagag agggcaattt gcaagagaga attgtggggc cctnagagag 420
aatacatcca naggaagagg gaaccangcn ttacaaattg aatngaacaa ggacagatat 480
ctgaaggggg tttggtagtt cccantcaag tatggtacan ctangtgcac ttccctggcc 540
agaccaccct acagtgtatg atccccctgg ggagcaaaag ctgcaagtaa cacttttggt 600
gccctataaa ttctgctgtg gngccactat acngatcaca gccaantggg cattgtnccc 660
ttttacacag gatctgggca tncacnccan gattgcacat ctggcacgan tgtgtctgga 720
caggaagacc t 731

<210> 3909
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3909
ttctttgaaa cctnanggct tgggcnactc gttctttntc caggnagccc atgcgnttcg 60
aattcggcac gagggtcatt gatagcaagt aagtacttcc tgaaggcttt ccagttcaaa 120
agattacaag ccattctgcc tgccaaacaa attatattct gaagatgcct gttttgtaac 180
ccttgatgtg aatttttgg tgtctgaaat ttacaaaaga atgaaattga aattgtaaaa 240
cactaaatgc tttgggttta ttttgaagta atctgttact ttaaaatgtc aacattagga 300
agccataaaa caagatatta tgaaacccan tattataaat gttatctaca tctaaagtat 360
tttaaaataa cttattggca gctttattct ttttttcctt acaagattta gaatcttttt 420
ggttatatgt ctatttttca attttgttat atttttaatt taagtggcca atgtggttat 480
gaacaagatt tgtatggtca gcttctgttc tttcctaaaa cttcagatna atatcatttt 540
agctataacc taaaaaagtg ttaaataaaa tgacagatgt taatttaaaa gcagccatat 600
gctaatttac tttttcatat gatgatggtc taatgggaag ttccatatgc tttcttttgg 660
gcctaactct gaaaaaggtn tatgtcagaa gttctnggaa atatgtcttt agccaaggaa 720
ttttattccc cttaaaattt ggntacc 747

<210> 3910
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3910
caanctaang gcttgggcta cttgttcttt ttgcaggnan cccatgcgat tcgaattcgg 60
cacgaggctc attccagctg gtctatcgtg ggcctcanaa ggtgaagagg gaccgtattc 120
tggggcccac natagaccag ctgtagctna ttncancctg taccttggtt gatgggtaac 180
ctacnactgc atcccatnct gaatatnctt tgaaactccn cannagtgct tatttaagtg 240
taaannctcc tnagagnact gcnncnnnnn atngtgnatc tnnccctgnc cntnganngc 300
tnnangngcn ccactactnc aanccanaaa gaaaagngtg ctgntcataa ngccncanta 360
cggatctgan ntcatnagga tnacattnnc cnaaagggag tnaantgnng gnaantgcnt 420
gncactatat gaantacacn ncantctgtn antcactttt aatnanntac tgancccttt 480
ctaactatca ggcgtnttat tncatgaatc ccnccntggt aagatacatt tntgaactng 540
ntcaaangcn aacttcaatg cngtganana aatgctctat ntngggaacn ttggngannc 600
tntngctata ttngaaacgn ntntnacctt gggactggcc aagtnaacan cnttcaatta 660
ccnttaaant ntantgttta aaggntncaa nggnnaggtc ntgtgnccnt nattaaatnt 720

aanaagnngn ccatatccng ttnattcg 748

<210> 3911
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 3911
aacntaangc ttggctactt gttctttttg caggagccca tcgattcgaa ttcggcacga 60
gcacccctttt taggatttac attagttctg ttccagtaaa ggcttaggta ggaagcacag 120
gatgtagagc tgagttgaac ctattcccct gatcttacta atgaggtgcc tgatattcag 180
agagaccaag ggacatcccc aaagtcaacc agcaatccat tagagctgag cctagtacct 240
tgattctcag acatgaatgc tacttgttga attgaaaatt gcattcataa tacatctctt 300
catagattcc tggccaggaa gccccagaga ccaaaacagt ggttatcaat atttagaata 360
tatcagattt acctggggag ctttatcaaa atccacactc ctaagcccaa taggggaaaa 420
ctctgatgtg gtaggtttag ggtaagacct gagtatttcc aagaaaacct ccctggatga 480
tcctgacaca gggagctttc agatcatcct ttgagaaaat ctgctttaga gctcattctt 540
tggttcggct ntctcttttg agctcactga tatcatccct gtggacactg aacttttctg 600
gaagctttct catctcagga attggtttgg gttactctac aatcagattt ccatncagga 660
tgtcacggca gtggctcaat actgcacctg tgtccttctc agccnaactg gnctgggcc 719

<210> 3912
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 3912
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gcaggcagcc cagcgtttcg aattcggcac gaggaaactg tttaantttt aaaggggtgt 120
attggtgtat gtcactgaaa attccacagg tacagtgggc ttcaggcatg gtttgattgg 180
gatgccagct ccgttttgct gagattccat tggttctgct ttctaccgtg tttcagcccg 240
gtttaggtgg caaaacagng gtggaaatgt taggcttcac atcaccgtac cacatagacc 300
aaaatgagag ctaatatcca ggatgagaat gaacagctct tctaatcagg ctgtcataaa 360
aataaggaag cttattttat agaagccttt accaaacctc cttctttgac ttgntgntcc 420
aaattggatt aaccagccca ttcctgcggc caaggaaata cacactggtt aacccagtct 480
ttactaaccc atacctttag caaagagatt ggattaccca acaacttgat tgctctggag 540
actactttgg agttggggta tgagatagta gataggagaa tgatctgtaa gtagatattg 600
gataagcgag taagaaatgc aaactacact gaggtcttgc actggtctag gttttgggac 660
ccagatgtaa taggacatag ntcttttctc gagcctctag aactatagtg agtcgtatta 720
cgtagaacca gacatgataa gatncattga tgagt 755

<210> 3913
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 3913
ntttgnaanc tnaanggctt ggcnactcgt tctttatnca ngnagcccat gcgnttcgaa 60
ttcggcacga gcaaacccct cctttgtact cgcccttcat aatcactttt gcttcacaca 120
cataacctct gacagccact gatgtgttct ttatgactat agttttaact ctggaagaat 180
gtcatgtaaa tggggctctg tgttttgcag catcatgcag ctgtaacctt tgattcagca 240
gataacaatg tgcatggcct ctccactcaa ggtaatgcct ttcagattca ttcaagtggc 300
cgcatctatc ggtagttctt tccttttcat tgctgagcag tattccatca caagggtgta 360
ccacagtttg ttcgtgcact catcaaagga catttaggtt gcttctagtn tttggtaatt 420
atgaatagag ctgcttaaaa acagtgtaca catgttttta taggaacata agttntcagt 480
tctttagggt aaatgccaac aaatgaaatt gctaggctat atgttaagta tatgcctgac 540
tatgaaaaac tgcccaccat tttccagtgc ggctgatcac tctgcattct catcagcagt 600
gaacaagggt tctagttgct ccctaccctn ttcagaatgt ggnattgnca gaattttaag 660
tttancccag tcttaagaag tttngtattg ntatcatatc atgggtttaa atttggnant 720
tccctgaccg gataatggn 739

<210> 3914
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3914
agggnnnntn nnttcntctn atgaactcnt anggctgggc aactngttct ttctncaggn 60
agcccagcgt ttcgcgtaca aacaccccaa nncaagcttt ttcatctgct gcntataatc 120
acgagtccta tncttctgca ctatcangng tnttntactn cctgctnaan ncnntgttgt 180
ccatttnatt aagacagaag ttnctnttat tgtnaaattt gaactgtatc tatgttataa 240
tagtaatggt aactcantcc aaaggaccta ntnacaggaa gtaacntgtc ntacatatca 300
gtnnatatan ggnnntnagt agggacatac tgtgatcttg gnatacttgn aatttttan 360
nttcctgggc ggttcantgc attgatnnat cacatnatnn taanacatgt atgttgagac 420
anagcangan tctgtctcaa aaaaagggaa aaattcctgg actacataaa ttaaaagtcc 480
atgaatagga ttggcttcta gcatgcccct tcnggtgctc agacacttaa tcagaaattg 540
gacttgangt tantttttatt ctcaggccaa ccttctccag tantgatgaa nanggccacn 600
cagcaactnt gacctgccan tntggcaaaa atggatcana aaagtgtaan ctaagctgca 660
tcngaangcc cangaatgcc tctnactggc ctgacttncg tcatgngccc atctttgcac 720
aacctgtggn ctttggcang gcaagggnn 749

<210> 3915
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 3915

tctttgnaan cttaatggct tggctnctng ttctttntnc aggntcccat gcgattcgaa 60
ttcggcacga ggagtatgtg tccagcgccc cctgtggtgt gtgagagaaa gcagctgcaa 120
ctcaagtgac taggtgggcc cagctggctt cgtgcaggag ggcacgtcac tgcatacgac 180
ccggccaccg tgttctgaag gacagcgcca aagatgggtt agagtcactg ctgtgggagt 240
cttcgtcccc acacagagga caggctgctc agctccactg tgcaagatga tgcacaccca 300
gaccagtgac gtcaggacga tgctgctcac gacagcaatg gtgaagatgc ctaccgtggt 360
cccatccttc ctgcagcctg ctgcgggcag gacgctcagc tggctgtgag ctcgctccgt 420
gcccagggtg ttggacatct cacagatacc acacggtctt ccaaggggac caccaaggat 480
ggggtctcta caagagagca acagagatct tagtcattct cagggcctcc gttgctctgg 540
ctctgccggt cttctggaca acggacaatc caacatatca atgagatgca tctgagattc 600
tgtctcanag tggcaagctt tggagaagac ccttcaactc attgactgag tcatctccat 660
gctgggagtg gcttccacag ggacagtgaa cctctgctga caaaagcccc tgctattcct 720
taactgtcct gggc 734

<210> 3916
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3916
agagnnnnnn ttnatcttat cgcctaatgc ttggctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga ggtgatctgc ccgtctcagc ctcccagang agcacgtgga 120
ttacaggcat gagccaccat gcccggccct ggatgtattn tctatcctag aatgtccacc 180
tttaaaaatg aagcccagtg aaaagtgttc ccccactaaa atgtggactg ttttgcttgc 240
agggatgtgt gggtttctgg tagatagaag gctagagcta gcaccttccc aaattgcaga 300
ggaatcaatc ctggcttgtc tgtgagctgg ggaggaatgg aaaggtaggg gccttgagag 360
tccttaatta catagggaat gtcctatcat tttgtntatt ctttaaaaag ataatgggat 420
tcttttntgn tgttgttagt ctcgctttgt cacgcaggct ggggtgcaat ggtgtgatct 480
cggctcactg catcctctgn ttcctgggtt caagcaattc tcctgcctca gcctctcaag 540
tagctaagat tacaggcatg caccaacatg cccactaatn tttgtactnt tagtaaagac 600
ngggttttgc catngttggc caagcttggt ctcaaactcc tgacctcaga tgatccaccc 660
tnttgggaa ccaaggcagg aagattgctg gcagccaaga attcnanggt gcaatgagct 720
atgattacat cactgngctt caa 743

<210> 3917
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 3917
ttnttnnnan ctaanggctt ggctacttgt tctttttgca ggagcccatg cgattcggaa 60
aaatatagct aacacttaat gtttgaggtc tgagcacttt acattaaata tttaacctat 120
aaaatgaaat gagaacttac ttttattatc ctcacttata cagatgagga aaccaagaca 180
cccagagatt aataatttgc ctaaggtaac aaaattagta agcatcgtaa ccaggatttt 240
tggtcagtct acacaccttc cccgttccct cactatagtg cctgctgcaa attgtacttt 300
aagctatagt tggacaaaat attaaaatct atctgggatg ataggtgacc aaaaaaaaaa 360

gtatatttga aagtatcaca gtgttaacag ggcagtgaag atgataaggc taagatacag 420
aaaggaaacc agagagcaga gtctactgct tgggactgtg gctcctccag gcacctttga 480
ccattcccaa taaggtaccg tgagaccctg agcactcttc ctgtaccacc tacacagctc 540
tcctcttcct ttcctgggtt tactttattt ttcactatca gcatctgttg cactatattg 600
tcgttatgtc agtatttgtt tgttgattac ccattctcca tggctaggaa tgtcagctcc 660
agcctgggca acaagagcta actccatctc aaaaaaggaa aaaaaaaaaa aaaaaaaaac 720
tcgggccttt ana 733

<210> 3918
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3918
agngnnnnnn nnttnnctta tgcctaatag cttggctact tgttcttttt gcaggatccc 60
atcgattcga attcggcacg agctgaagtg aggttgaggt gggtgcacgg agcccccatg 120
ccctcagtgg gtacaccagc ctcccagcac ttcctcatgt tcaccaacac ggaagcttat 180
cagagcttgt tgtttcagaa ctcaattgcc agctcactgc tgaagagatt ggtgggtagg 240
gctgaaagaa atatcagtgg gtctttgtgg tattcagccc catcctgaga tggcctatcc 300
aggggctcta taagaagtca cctcattagc ataaactcac atgtgaccaa aaggatcttg 360
ttatgaataa caaaagatgt tcttattact caggaaatcc caagagttta gatgctctgt 420
gtcagggaag tggggatgca gaccaatttc ttattctatc acattaacca gaatcaagct 480
tataaaaatg tatttttttt tgtatggtcc tcantgtgcc tacttgaata atttttgctg 540
atttgattaa aaaattctgn ttttccattc tcttttatta gctgtcccat agttttaata 600
cagccatcat cccaagacca gaaggaagtt aagtgctcat ttataaaaat gattgnatcc 660
tnctttttcca tctattactt ttgngtccat tatgcatgtc aagctggtgc ttgggagctt 720
actctntgna ccctctatta gacagang 748

<210> 3919
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 3919
ttgaanctaa tgcnggctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gagctttcat ggtatgtcca taggtgtaaa atgatggcct taatgcttat aataataagg 120
taggtttttg tatgtctaat atacagagaa atttccaaag acttttttaat ctttgcttag 180
cataaggagt ttagtcagta actattacaa ggaaaaaatg atcagttttc atttgtcagt 240
tctataagcc ccaggcaagt ttctttcggt tttgactttt tattaattaa ccatatccta 300
agtgctaaaa gccatgagtc atttttaaaa tttatctttt tttgtatgcc atcacttcta 360
gttttaccac tttgtactca caaagaagcc acaaatggat taatcattat gtcatctaag 420
gaaataaatc catggcatag gggtaaattt aaaaaatact ttgtactagg attttataat 480
agcttaaatt tattgaaggg ctactgtgtc acaatcaaca tgctcagcat ttttcatgtg 540
ttattttcca tttgtaactg gcaactactt aggattattt agttaaaatc ccttccttta 600
tggaatgaga tgtctgttta ttacgtttac agccacatta cagatctatt gacataaact 660
ccactatggt aattgtgctc ctttttttcc ccctctctgg ttcacctgct caatggttta 720

aca 723

<210> 3920
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 3920
cttcttgcta atgcttggct acttgttctt tttgcaggac ccatcgattc gggaaagttc 60
caggaccctg agacatcttg ggattcctgt ggtttaggaa agacctttaa ctaccagctg 120
gtagttgtct cagcattctt caaatagtcc ggtcttgttt aatattatta ttattattgt 180
tatttaattt tattttattg caactgtact tagagaatag tctggtcttg agacctttc 240
actgtggtct gttctggtgt acggctccca ccagtgtgaa gcagaaggat gactttgctc 300
tgttgtcagg acaaccttga aggaaggagc caaatgtgtg gaggtctgtg ggaagagaga 360
gccacctagc atgtccccac tgaaccagtc agcagaaggc cttccccagg aggcctccaa 420
cagatccctg aatgccacag aaacctcaga ggcttgggat cccaggaccc tccagcgctc 480
aagatctccc ttgccgtggt cctttccgtc atcacactgg ccacagtcct ctccaatgcc 540
tttgtactca ccaccatctt actcaccagg aagctccaca cccctgccaa ctacctgatt 600
ggctccctgg ccaccaccga cctcttggtt tccatcttgg taatgcccat cagcatcgcc 660
tataccatca cccacacctg gnactttggc caaatcttgt gtgacatctg gctgnnctct 720
gan 723

<210> 3921
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 3921
tagctaatgc ttggctactt gttctttttg caggacccat cgattcgaat tcggcacgag 60
ccaagcagac cttggcatta tagatacagg tttctaaaag ctgatagctt ggctgccagc 120
ctcatgggct ggatcaccca caacttcatg ggcctcttct agtggaagct ggagcatttc 180
cttggtgaat tcttttccct gaggggcaag atccatgcca cacagctctc tgaccctgtg 240
tgtcacaacc cttatggtcc atgagcaaaa tggttgctag tagtcatttg ggcatttctc 300
ttctgttttc ttatgtgtgt aataagatat acaaagtcgg gcttgaagat tagaaattgc 360
tacttccagt gagtcagttt acttggtttt cacatcttca agttgagtct agaatggagt 420
tacctaagaa aaggaaattt gcagccttca gtaccgtgtc ctggggttgc tagaataact 480
agtgccatat ccactctact ggctctctag agattgtgta aaggaggctg gccttttgga 540
gatgatctga atacatggta ttgaggacaa accttcttcc caaggctgat ttgataatat 600
gtgagtttgt gggtctaaca tgtagaaata cactcaactg aatggatgtg gggtaatctg 660
ggtatttaga cagggtggtt tggtnggttt aatgggncca aaccttgttt nctggaaaa 719

<210> 3922
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 3922
agngnnnnnn nnttnnnnnn ttntaancta atgcttggct ncttgttctt tttgcangca 60
cccancgatt cgagtgggta gcaaggagtt ctgtgtaaat acttgggagg catccaagcg 120
gagagttaag taggcactga atatttaagt tgagctgagg ggagtgatct agactggaca 180
taaattttgg gagtcactag tatacagatg gcatgtcatg gaactgattg anattgtttg 240
tggccttaag atcaagccct gcnagactgg agtaataaaa ctctggtctc ccacacagtc 300
agctctgngt ggggaaaaaa aagccctaaa acactaacaa cggctaaagc ttgggcaaag 360
ganactgaaa aggttcagcc nttaaagtgg gagagtattt tattattttc aagaaagagg 420
gaatggtcac ctctgtcaaa tgctgntgan aagttacaca atgagaatag agaaatgtct 480
atttggatnt gacaacatga tggtgactgt tttgacaagt ggnccaagcc acattgggat 540
gcttcgaaga gagaatagga agtgaggtga atatcgacag ctcgttaggg aaatttgctg 600
ctgtaaaatg gagagaacca cttaatgctt caganggaaa tggggtcaaa aaaaaaggct 660
ttttttttta attttttaa naacaggagg nccttcannc atccaggttg gagtgcatgg 720
ngcaaattnc cggttaccaa anacn 745

<210> 3923
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3923
agngnnnnnn cnnttccnct nttgnaacct ntnatggctt ggcaactngt tctttctcca 60
ggnagcccat cgnttcgaat tcggcacggg cctagtagta ccctgacctc caggtgcccc 120
tgactctggg aaagcctttc tgatgatctc aagcttgcan attctgtccc tgttctgacc 180
gggggtcaca gcctagtggt agaacaggac ctcctgctaa gatgctggaa ggacccttg 240
ggggagctga ggcctggctc ccctctcccc aggcgcaggt gcacaggcgt gtgggctgtc 300
tgcaagcaca gatcctgcct cacagcacca ttaccacaat aactgaatct gtgtttcctg 360
gctgctgtta attgtgctan agatttgggg catggttttg gggtgaaggt tnnaaatgag 420
caattagccc tnaaatgtta aactaataag ggaaataaat gatcaagcaa agtctagcct 480
angaggtttc agcaaccgaa gatgggctgg gacggggctg ggatgccgcc gacccagcag 540
ggagtggccc ancnggtttg cttcaatgac ccangatgtt tccacaantc ggaaaggggt 600
gctatcttnc tgtctgctac ttagaaagtt ctatcttacc cccnggatct nacttacacc 660
accagancat tactggtcta cccgncaagg ctcttctgct caagaagaca gggaaaggat 720
ttgctttccc cacnccatta nnacccc 747

<210> 3924
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3924

ttntnnncta cttgatgntt ggctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgaga aaaaaacana aaaaaaccct gttttcagtg ttatgggaga gaaatgaaca 120
atgggaaaca accgaggaaa gctggagcag gttacgtata aaaataaagt ccattcacca 180
aaaaaggcat tacttacgag ttaccagggg tgagagatag gatgctgaag tggtctagaa 240
attaagctac ccagtatgga agggctgaca attcagtgat cgagagcagt gccttagaac 300
agccaaaaca atagcaaact gagatctgca gaattaactc tcctgaaaat aacaaggagg 360
tactcatttc acgtttcctt ctatttgatt tacaagaggg tgtagcttga gggaaaatgc 420
ctcacacttg ttgaattaca cagttgtttc tcattcactt ttaatcacgt tttgagcacc 480
tgctaagtac caggcatttt gctaatgagg agcacagagg taaaagacac atcactactg 540
tatgaaatgc gtagctcant ggtgtgatac acaagcacag agaggtnacc agagagcaag 600
gagggcatgg aaganaggcc tntnactttt ggactgggaa nggagaaaga tgtangacaa 660
gaaaatcttt cccttaagga gcttgatgct ttgaacttgt gccctngngg aatgaanaag 720
ttnacccant tngggcttan cnt 743

<210> 3925
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3925
gnanctaatg ntgcttggct acttgttctt tttgcaggat cccatcgatt cgtctagact 60
ctggtcgtca ggaacgggtc aaggccttca ccatgagaag agcaccaaag ggagttaata 120
tggggttgac cagaggtagg caaaggaagg cctgtgggcc aaatctggcc agctacctgt 180
ttttataaat aaagttttat tggaacacaa ccatgctggg gtttgtttca tatttcctga 240
ggctgttttc acactgcaat ggcagaggtg agtggttgac acagatgccg tctcaccaaa 300
gcctatgata tttactgtct ggccctatac anaaaaagct tgctgacctc tgggttagac 360
tgtcaggtgg tananactaa ggagggagtg ataagtccct gttggccacc tgaggttttg 420
nctgtgtcag gaagctgcag atgggagatg tccaggcagt ggctcanaag aacccatgga 480
ggacccatta agggaanggt tggtatgtgg acaccancca cgcccangtg aaccanctgt 540
gcagtcaaat acanaacttn ccgtcccttа caccttcctt ctctgnggtt tcaattttag 600
tgaaagtcan ccacaccnca nangtngaac caacccgtgc agtcaaaatn caaaactttc 660
cttgcccctt taaaccttcc tttttnnctg gtttccaatc ctggtggaag gtccataagc 720
cccagtccnt gaanccaagg nng 743

<210> 3926
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 3926
ggggnnannng cccttnctcc angcngtaac tctcgggaan ggcccggcnn cttgttcttn 60
cnncaggnag cccatcgctt cgctcnacna catnnctggg ccctttttca tggggattna 120
tgncnagtgt nnngggacag gaccattcan tggctggntt nnaannttga tggngtnaan 180
tgcnnntaga ataaannngaa cagancaaaa taangnnngg ntagnaggaa gatggnatgc 240
acatganaag ataanggcag cagnanaggt gagggaanga gtggatatng gggaatgacn 300
ttatnaangc cangaaacta gaatctnagn gacggaaaag ctnnaaaagn tctgagncnc 360

ttnncnanac ggngggtacc cnggggtcga acaaaccgnc ttctttgaca tgttgtanca 420
tactgaacan ggnntccnaa tcctgcggcc aangnaagac acgnagncta nccnagtcgc 480
tanngccnna accaatggcn attncnaggc gtgatctaac gcactacagc ttgnactcct 540
gggctgaggc ggganaatca cttggaccca ggaggcatga anttgcangt gagnctnaga 600
acacgccaat gncatacgcc tngnnccccn anggnccnaa aacccccggt cttaanaaaa 660
angggaccca agaaagggng gaatccccca accccggccc nntagaacca tnntcaccct 720
aaaggggaag gnnnctttta nggaaaanna nccgggcntg gggnaaaaaa acanggcctt 780
ntaggnc 787

<210> 3927
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G

<400> 3927
tnttgnaan ctaangcttg gnagctngtt gttcttncnn caggntncca tcgattcgtc 60
tgtggttgga agcctgaatg tgaatcgctg caaccagacc acagggcagt gtgagtgtcg 120
gccaggttat caggggcttc actgtgaaac ctgcaaagag ggcttttacc taaattacac 180
ttctgggctc tgtcagccat gtgactgtag tccacatgga gctctcagca taccgtgcaa 240
cagttctggg aaatgccagt gcaaagtggg tgtcattggc tctatatgtg accgatgcca 300
agatggatat tatggcttta gtaagaatgg ctgcttgccc tgccaatgca ataatcggtc 360
tgccagttgc gatgccctca caggtgcttg tttaaactgc caggaaaata gcaaaggaaa 420
tcactgtgaa gaatgtaaag aaggatttta tcagagtcct gatgccacta aagaatgtct 480
tcgctgccct tgttcagcag tgacatctac aggcagctgc tctataaaat cgagtgaatt 540
ggaacctgaa tgtgaccagt gtaaagatgg ttacataggc ccgactgcaa taaatgtgaa 600
aaatggctat tacaattttg acagcatctt gtagaaagtg ccaatgtcac ggccatgtgg 660
gaccccagtt aaaactccca aagatttgta agcccnaaaa ntggtgantg catcaactgg 720
cttcatacac ccactg 736

<210> 3928
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 3928
agggnnnntn nnnttnncta ctgnaacctc taanngcttg gcnacttgtt ctttttgcag 60
gnagcccagc gattcgaatt cggcacgaga taacctaggt nttagaagga taggaacaac 120
aaacatcatg atcttacaca cctgcacttt ctagcaccag ctcctggaga aaaatcgaga 180
ggctgaatgg tgtctgttaa cagattatag tcagtgaggc ctctttcctc agatgttgta 240
tcttatcaat ggcagacatt ttcaacctga aagacacatg ctcattacaa gacttagtag 300
tgctctaacc ctgttttcac ttatcagtcc aagacgtagc cgacatcaaa gtattcagct 360
tattacagaa ttgacttcct caaagtttct ctcagtgttt atccaagatg taattcactt 420
agcatcttta tctcgctgca caggactaga gttgccttcg aaaaaactca ggataccact 480
tggctataga tcacagtact tgttcctcgt atttgcgtta actngtgtga atatgcagcc 540
tccgtgagat atttgcatac tgcttctgtg aacacacagg acaacagact gtcttccgca 600
gtcatacact cagtcatatt ctcaaatagg tattccagtt caaatgtata aaatcagtag 660

tcttacatgt tacagantgg gtgggatgtt cctttgccag gggattaaaa aaaaaaaaat 720
cccaagtctt aatactgntt tctnccnacg aat 753

<210> 3929
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3929
ngngnnnnnn ntttnnannc nnttggaaac ctgtgcnagg ctcttgttct ttttgcaggn 60
acccatcgat tcgattcggc acgaggtgga ataatatctt ttgaaataac taagtccact 120
aaattataca gtatgctatt ctggttctaa gtacatatta gtcccttggc aaatctgttc 180
tttcaaagca taccttcccc aaatgagcct acctacttct taaaaaacat ataacacaat 240
gtggtagtag taggtgtnag gaaggtaagt tntttcatag gggnatgcan acatatnatt 300
gaaatattac atagatntaa agacttaggg aataaaaata gcagcaacaa atacttgata 360
gatttatcct acttgggaga aatattttgt agcagagtat ttagtatact tagaagttga 420
tttagcaatt aggctttaat gaccttacaa agtgaacata actgaacaca ngtatttttc 480
caatgcaaga tgaggatgaa aatnttacat tttaacccat ctggctaaag tttagactta 540
gcaaaaatna anatgntgcc tttgnccaag tatngattca ngngactaga catatatggg 600
tgtgtaataa gganggattg gactgaaata tnntttgcag ggtttcacat gtaaaactgc 660
acttgccctg naaggatnnt ggnaanaatc tgngtttttc ctcagncnnc nttnagaaca 720
gtaaggggnc ctaacctnnt ttaacccgta aatg 754

<210> 3930
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 3930
gnnnnnnnaa gngnntnnnn tttgatancn tnttnaanct taanggcttg gctacttgtt 60
ctttttgcag gctcccagcg attcgaattc ggcacgagcc cgccacatgg cctgtttctt 120
tccttgctgc tcctgcagca cagccctgac tcgggggctt tgcgtgtccc ctcancgctg 180
cagggcccac tccttcctct gtcctggtct ctgcttagcc agcgcacggt cagggaggca 240
tgggtggcca gcccgcaagg agccaggcct cccagcaccc cttcccttgt gtggcctcct 300
cccacatggg atctcagccg gtcctggctt caactaaaca ggacgtggca ggcgtgatgc 360
cctgccaatt ccaggcctaa gccttgacac agcctggcag cttctgcttc tgaattgcag 420
gaccccaact gtcatgtaaa gaagtctggc tgctttgctg gaaaggccaa atggagagac 480
cacgtgagag gccacatana caggccttgt ggagagggaa aggtgctgag actacctgga 540
angggagccc agttgaccaa acacccccca ctgagcccat cccccagnca ttccttgcca 600
ggacacccaa catgtaagtg angcatcccg ggccgttcca ancttggnca ancgccantg 660
ggactgtaac ttgcannagn aaaaattttg ctttnnaacn aaaagtactt ggccnancnt 720
gaancccccan ttnngtccca cannaattcc ttggagagna taaacccaaa ttgaattggt 780
tggttnca 788

<210> 3931
<211> 460

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(460)
<223> n = A,T,C or G

<400> 3931
ttcnaccagc tcttgttctt tttgcaggat ccctcgattc gaattcggca cgaggcttgt 60
tctggggaaa gctcatataa gtatggattt tattcctcaa ctagtaggat accaatactg 120
gtattgaaac ttggggaaaa taactggaga taccagtgca gctatttaaa gctgtagcaa 180
gggctgcaat cttgcggaga ttttaaagag aagttttaaa gtttctaata ctgatgcctc 240
tttttggtaa atacaagttt tataaatcct gccctgggat cctgattccc cattaatcaa 300
gatttgtcag acttcacctt ctataattag aaaacacagt tataagaaca gtcaattttt 360
taaattttcc aaattaaaaa attgcaccat gattttgaac aagcacttcc aattacatta 420
cccatcttgt atgccatagg tgggagtata attgtcacag 460

<210> 3932
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 3932
anctaangct tggctacttg ttctttttgc aggancccat cgattcgaat tcggcacgag 60
attttaagtg tgcagctcag ccgtatttag tgtattcaca atgttctgca accaccagcc 120
tcctgagtag ctgggtgtgc accctgcacc cagccagaag tggaatatct tgttggggct 180
gggcttagag ctggagctgg tggccggctc tgctcgctta cagaattctg tacggtttct 240
gatttctctc agcccatctg tccttcactt gcaagcatct gatgactgct gcatgtacca 300
taaaaacatg caaatatata attcttggct ttgaggaggt gaccctatga aattgactta 360
aaaaagttgg gctggatata gtggctggcg cctgtaatcc cagcactttg agaggctcag 420
gccggagggt cgcttgagcc caggagtttg ataccctgtc tgagagagaa ttagctgggc 480
atgttagtgt gcgcctgtgg tcccagctac tcaggaggcg gggcgagagg gatccttcca 540
gctgagatgt gagggttctt tgagcccagg aggtccatac tgcagtgagc catgattggg 600
ccactgcatt ctagcctcag tgacagantg agactgttta aaaaaaaaaa aaaaaactcg 660
agcctntnaa ctatagtgag tcgtattacg tagatccnga catgataaga tacattgat 719

<210> 3933
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 3933
agagnntnnn nnttgttgac tctaatggct tggctactng ttctttntnc aggagcccag 60
cgattcgaat tcggcacgag gcctggcgaa ttttttttgt attttggta gagtttcgtc 120
atgttgctta ggatggtctc aaactcctga gctcaagtga tccacctgcc tcggcctccc 180

agagtgctgg gattacagtg tgagccacca tgcctcacct agggtgtttg gtttttaagt 240
gaaacatgca catggtaaac attaaaaccg tctaaaaggc tggaccatga aaagcaaggc 300
tcccttctcc cacccaatcc ctgaattctc cctggagagt atccctccta agtgcacgca 360
cttccactct gttccatttc tgcctgttaa aactacttag tgcagcttag tgtagtggaa 420
cctgcttcag aataacccat atgggtcttc tttattctca tgaaccacag agcatttcat 480
gtgttggata tattgtctcc tacttacgga catttggggt tgtttctgtt tttgtttgtt 540
ttgtgacgga ctcttgctct gtcacccagg ctggagtgca gtggcacagt ctcgctcatt 600
gcaaccttca cctcctgggt tccaacgatt cttccctctc acctcccaag tagctgggga 660
ctacaggtgc ctgccaccat gcccactnat ttttggattt tttggtaaaa caggggttca 720
ccatgtttgg ccaggcttgg tn 742

<210> 3934
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 3934
agtttnnnan ntnaacnnnt tgctgccata gcgtggcttt ttgcaggacc catcgattcg 60
aattcggcac gagggggccc ccatttttct caaatnccct gagcctcaag aggtggngga 120
agagttgaag aagtacctgt cgtanggaga tttgggtaga agccctcatg ctgagctttg 180
tgtccctggt gatgttggaa cattaatgat ggaacatggc caaacttcag tcatgatcct 240
gaaaccatgg cttcaggatc atgactgaag tcatggtttc ttccctgcca gaaatgaagg 300
ttcagttatg aggcaaccct ctagtaaggc attgtaaaag ttactggntt nggtttaata 360
aaagttgaaa tanagtanat gaaaganaaa ananaaactc nagcctctag aactatagtg 420
agtcgtatta cgtagatcca gacatgatag ggatacattg atgactttgg acaaaccaca 480
actagaatgc actgaaaaaa atgctttatt tgtgaaattc gtgangctat tgctttattt 540
gnaaccatta taagctgcaa taaacaagtt aacaacagcc aattgcattn catttcatgt 600
ttccaggttc agggggggaag gncttgggga agggtttttt taaattnnac ggggccgccg 660
tggnccaatg ccnttggggc cccggtaccc caagcttttn ggttnccctt ttantgnaag 720
gggttnaatt ggccccccct tngggcntta aatncatngg gncantaacc tnggnncccc 780
cnggggtggg aaaaatttt 799

<210> 3935
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 3935
agagnnnnnn ttgannctaa tngctggtng ctcgttcttt ntncaggagc cnancgantc 60
ggtaaattcc tgggttccag gctcaagcct tccactgtat gctccatgtt accagctatg 120
ccttttgaac gggagatgtt gcataaataa ttgttgagta tgcactttag attctttgct 180
aacatcacat ttggtgaaac tataaaataa ttcccatgaa aattggattg cttaatatca 240
taactgatat ttaataatat ttaatattgc tctaaaattt ctggctaaaa tgaaaatatt 300
caaccatcag gaaggagaaa caaaactatt actgtttgta aacagtttat catcagtact 360
tacctaaaaa tcctggagaa tgagctcaga aatatttcta agagttgaga cagtttagca 420
aaatgaacag atacaacctc aaaccaaacc aaactagaaa gctcagagga cacagaaatg 480

ccagtactga gctggcaaca cctctgttgt ttgtgaaaat gttctctgga acacatggac 540
acaggaaggg gaacatcaca ttctggggac tgttgtgggg tgggggggatg ggggaaaggg 600
ganaantncn nngnnnnnnn nnnncccant nnnntnnncn nncnnnttnn nnnnnnnnnn 660
nnnnnnnnnn nttnannnnn nnnngggnnn nnnnnnnnan nnnnnctttg gnnncnnnnn 720
nnnnnnnnnn nnnnannnnn nnnnnnnnnn nnnnnnccnn nnnnaaaaan nnnnnnnnnn 780
ntnnnnnnnn tnnnnnaaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncn 834

<210> 3936
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3936
agagnnnnnn tttttgaanc taatggctgg ctactngttc tttntncang atcccatgcg 60
attcgaattc ggcacgagtg gaagctctca ggccaaggtg attgacagag atggttttga 120
agtaatggaa tgtataaaag gagaccagta tattgtggac atggccaaca ccaagggtca 180
tacagcaatg cttcatactg gctcatggca tcccaaaata aagggagaat ttatgacttg 240
ctcaaatgat gcgactgtga ggacgtggga agttgaaaat ccaaagaagc aaaaaagtgt 300
gtttaaacca cggacgatgc aaggcaaaaa agtcattccc actacgtgca catatagtag 360
agatggaaac ctcatagcag ctgcctgcca gaatggaagc atacagatct gggaccgaaa 420
tttgactgtt catcctaagt tccactataa acaggctcat gactcgggca cagacacttt 480
tgcgtgactt tttcctatga tggtaatgtc cttgcctctc gtggaggtga cgattcatta 540
aaattatggg acatccgaca atttaataaa ccacttttt cacctcgggt cttcccacca 600
tgttcccaat gactgactgc tgtttcagtc cagatgataa gctcatagtc actggtacat 660
ctattcaaag agggatgtgg cancggcaaa cttggtttct ttgaaccgta ggactttcca 720
aagggtgtat gaaatagaca tcccagat 748

<210> 3937
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3937
agngnnttnn nctttgaatn tnatgctggc tacttgttct ttttgcaggt ngcccatcga 60
ttcgaattcg gcacgaggta agatcctgcc tcaaaaaaaa aagtttatgt tctcaaagtg 120
ctcataatct agtggtagta cagtatttga gatattagag cagtttctcc tccttttgca 180
actaaggaca tgtatcctta aagcagaagg aatggcagag tcgtgtaata aaccctcaag 240
taccattact tagcttcaac aactatcgac actctactgt tcttgtttca tttatgcctc 300
acctccttcc catcccccac ttgaatattc tcatcctttt tttacagttt ttaagataac 360
aattacataa ctgaaatgca caaatcttag ctgtacagtt ttgacatatg gatacacctg 420
tgtaaccaat gactgtatca caacatagag catttcatct ccccagcaag atccatgtgt 480
cttttcctag ttaatgcctc tttatttctg agatggttat tgctctgctt ttgtttttca 540
tgttaggcta gtcttgcctg ttctagaatt tcatataact gagaacatac agnaatgtac 600
tcactagtag tgtctgactt tttcacaaag gataatgtct ggcggtattc attcatgctg 660
ggngtatgca tcagtagttn attntctttt tactattaag tagtgttcta aggactattt 720
taatagcatn ccacaaangg ggtntga 747

<210> 3938
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3938
agttnttcnc angannactn antgggctgc cctactcgtt ctttttgcag gnngcccatc 60
nattcgaatt cggcacgagg tgtgggtcan tttcatcaag tactttacaa ggtaatagaa 120
tatcacaagg caagtggagg cagggtgaga tcacgggacc agggcgaaat taaaattgct 180
aaatgaagtt tcgggcacca ttgtcattga taacatctta tcaggagaca gggttttgag 240
atcaaccagt ctgaccaaaa tttattaggc gggaatttcc tcttcctaat aagcctggga 300
gcgctatggg agactggggt ctatttcacc cctgcagttt cgacagtaag agacggccac 360
gcccaggggg ccagttaaga gacccacccc caggtgcgca ttctctttct cagggatgtt 420
ccttgctgag aaaaagaatt cagtgatatt tctcccattt gcttttgaaa gaagagaaat 480
atggctctgt tccgcccggc tcaccggcgg ccagagttta aggntatctc tcttattccc 540
tgacaatcgc tgttatcctg ntttttcaag gtgcccacat ttcatattgc tcaaacacac 600
atgctgtaca atttgtgcag ttaatacagt tattacaggg tcctgaggtg acatacatcc 660
tcctcagctg acaggattaa gagattnaag taagtaaaga caggcatagg aaatcacaag 720
ggtattgact gggggaagtg ataantn 747

<210> 3939
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 3939
agncnttnnc cannttnnact nctntggctg cncatactcg tcctcgcccn annangacag 60
ggcnnggcga atncggcacn cagaggcagg tgngtttttt aaaaggtnaa cacaccngtt 120
atgccttcnn gtacgggcat gcgagccaga agantntgca nctgcnngga gagatgaagc 180
naaactntgc aacattcaac tgcattaaan aaaaatgatg ccnanagggc ctttgagcaa 240
gaaatgnngg nngatnaang acacccgnng ccngaactct gcgcgggaca tnnnggttat 300
ggctctgtna gctcntaacn ctgcagntga cccagacnnc tannggcngg actaggggat 360
gangcggctc actgtgggcn ntncgtgaga ccncaggnca nncatgatga ctgnaaacag 420
antcccanan actctactgg atcctccctt ttccttgcta acacatgaaa ctgatccagg 480
atacacagcg caanaagnat ctgaatggca gtgaattctc ttnaacataa cccgcnatgg 540
cnatnggggc ttcantggaa tagangggta caggtcaacn ggggttgacc ctgcggnttn 600
gnnnggncan cggcnttntg agncanaaat acncgtaang ccaantttac agccatgaan 660
caaggatccc ccnttngggn tttggggatc atcacggnat tgntgttggt ggcantaacg 720
ctgaaatgga aaagggaacc ttgcccctta natgaccctt tggggaaanc ccctnaaaan 780
ggaatcgtaa aagnccaanc nccaangtcg 810

<210> 3940
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3940
agagnnnnnn ntnttgactc ctaatggctg ggctactngt tctttntnca ngtngcccag 60
cgantcgaat tcggcacgag ataacttcta aggaaacaaa ccaccctcac atgcactatc 120
tcatttgtat ttctgtcaat tctgaaaggc cagcatttgg ccagtattat ttgaatctgt 180
attgtatttt ttaaccagaa gaatgaaggt ttatagcttc attcttttgg aagaggaggc 240
tggagaccac aggttaaatg caggtgcatc gctcttggcc ggccctggaa gggtcctttc 300
tccctccttt tacactcgca gacaagcttg tggatgctca ataaggacag ctgccgtttg 360
gacagagatt aatcatttat ttgtgaaggt tttttctgcc ttgctttctt gttcttttt 420
aaatcttcac attgttttga tcccaaaatg tttgtgttgt ccttactcaa aactaggaaa 480
aacaattatg tggtaagagg ctcagagcca cttacttaaa tctcactaga tttatttgtg 540
agaacatctg ttttctgata tttagacact tnctcttcca ttgctgtttc ctatgactca 600
tgcacagtta tttgttcagg tttcatggga atttcccaag tgtatttacc tttgtttggg 660
tttttaaaaa tgtaaattat attggcccaa taaatgagta tgtgttgtca nggggactgt 720
ggctgggtca ttgcatgtgg aaggggaan 749

<210> 3941
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3941
agngnnnnnn ttttgnntct aatgcttggc tacttgttct ttttncangt tcccatcgat 60
tcgaattcgg cacgaggggc catgtacctc ccggacaccc tctctccacc gaccagctca 120
agtccacact gcagaccctc ccagagattg tggcaaagga agcacaggtg aaagtggccg 180
aggtggaggg cgagcaggtg gacaacaagg ccaagctgga ggccacgctg caggaggagg 240
cggccatcca gcaggagcac cgtgagaagg agctgcagaa gcgctcggag gtggcgaagg 300
attttgagcc cgaacgtgtg gtagctgctc cccaaaggcc ggggaccgag ccacagccag 360
aaatgcctga cacagtcctg cagtcagaga ccttgaagga cactgccccg gtgctggagg 420
gcttgaagga ggaagagatc acgaaggagg aaatcgacat cctcagcgat gcctgctcta 480
agctgcagga gcagaagaag tcactcacca aggagaagga ggagctggac tgctgaagga 540
ggatgtgcag gactacagcg aggacttgca gggagatcaa gaagggaact ttcaaagact 600
ggtgaagaaa aattccgtgg aagaatctaa agccagcaag agattgacna aaagggtgca 660
gcaaatgatc gggcagatcg atgctttgat ctccactgga gatggccaca gcttgcagct 720
ggcccggcaa cggatgccct 740

<210> 3942
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 3942

aggtntnnnt tttgacccta atggctggct actngttctt tntncaggtt gcccagcgan 60
tcgttttacc ctcctataat gcattttctt tggatattct cctagattct cagggatatt 120
tccatatttt actattcatg agtttagaag agtgtttact ttcctgagtt ttcatttcct 180
tctttttctt ctgtcatagg taatttacag agcaaatagc caccagagag gataccgtaa 240
gggatgtgga aaatgagttc ctttgcgctt atccagtgag gttgattttc agtcaatgag 300
cattcagtat atgcctggga ctctggcttt atttttagc tttgtgatgc caaacccatc 360
aatgaacttc tctgtatatt tgattcatca tgaaatggtg acactgaggg tggctgattt 420
ccaggtttac atcagttgcc ccaggggaag tgcctggccc ttgtctggtt gttgctgctc 480
taactttgcc ctgttaattg aagaaatgcg gctgtaaaca cttctggggt gttgctggta 540
ttttctgtcc tcacagttta cagagaaacc catattttca gcctcttcct ctgctttctg 600
tcttttctgg aaccatcttc accgacctgg tgtaatcttc attggngtgt gantntgcac 660
agatgtaaca tctnctcaaa gcctantgcc caccttccaa cttcacgaaa atctggagct 720
caggaccacc attctttcca aaccct 746

<210> 3943
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3943
agtnnnnnnn tnttgactct aatgctggct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggggca ggctttgaga ggatcgactg caattttgaa agaagttgta 120
ccgtgagtaa aatgcgatca aacagcattg catgcttcag agaaatcttt cttcacaaaa 180
ggaacaattg gtgcagcaaa attaattttc ttattttaag aaattgtcag ccgggtgtga 240
gccaccatgc ccggccgaca taggctattt tttaaaatgc aagctcttct gaaccatata 300
atatgatgtt ttaaaatata gactctgaag acaaagacct gggctcagaa tcaggcccca 360
ccacttattt tcaatggaat cttgtctgaa tcttgtaatc tttccaagcc tcagtttttt 420
catctgtata atagggataa aaataatagt aaacaaataa atgtatttct tttgaatatc 480
tagtagtatt ttaaaaatca gataactaga attatataac tctatgtgct ttatttttta 540
cttgtttgct gggaatcaaa gagcttagtt ttgttttttg ntntttgntt ttttttgaga 600
ccggagtctc gctctgtcac tgcactacag cctgggtgat agaatgatac tctgtctcaa 660
aaaaaaaaaa aaaggaaaaa ggatgaaatc acacttggag caaaaaaccc aangcatatt 720
taaagatttg ngtattgggt taa 743

<210> 3944
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 3944
agtnnttnnn natnggaaac cnttatggct nggcctactn gttctttttg caggagccca 60
tcgattcgaa ttcggcgcga gattgcncat tgnttttatc tgtaagttgt ctttatcagt 120
ggttctcaaa gtgtggtccc ctgctagtat agtntcagcc tcacattgga actggttaga 180
aatgcagact tctcaggatc cacctaattg cagnagttaa ttttaacaag cccttcggtg 240
atcctgaaac atgttacagt ttgagaaaca ctgctataat acgtgtcatt tnaaattgnt 300
tcaggttgtg ggggtaggga ataagactac caatttattc atcttctgtg caatattacc 360

tgtttaccta actcttagag atattaanan attttgaaga atgtgtccca tgagattata 420
atggaactga caaattccta tngcttagtg atntcatagc tgncatgaag ncttantgct 480
gtaccttact catgtgtntg nggtggngat ngtgtacaca aatcttctgc actgccagtc 540
gnctgaaagt atagcacatg gccgggcgcg gtggntcacg cctataatcc caacactttg 600
ngaggcttga tgcaggcaga tcacaaggtc aggnanattg agaccatnct ggctaacacc 660
ggggaaaccc tgtctcttct anaaatncca aaattagctn ngtgtggtgg cncacgtttt 720
gtaatcctgg ctacttggan gctgaagcac caga 754

<210> 3945
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3945
agtnnttnnt nnatnaactn nttgctggct acttgttctt tttgcangat cccatcgatt 60
cgtctcaccg tgatcaagtt gaggggnttn cggctccctt ctacagcctc agaaaccaga 120
ctcgttcttc tgggaaccct gcccactccc aggaccaaga ttggcctgag gctgcactaa 180
aattcactta gggtcgagca tnctgtttgc tgataaatat taaggagaat tcatgactct 240
tgacagcttt tctctcttca ctccccaagt caaggggagg ggtggcaggg gtctgtttcc 300
tggaagtcag gctcatctgg cctgttggca tgggggtggg acagtgtgca cagtgtgggg 360
gcaggggagg gctaagcagg cctgggtttg agggctgntc cggagaccgt cactncaggt 420
gcattctgga agcattanac cccaggatgg agcgaccaac atgtcatcca tgtggaatct 480
tggtggcttt gaggacattc tggaaaatgc cactgaccag tgtgaacaaa agggatgtgt 540
tatggggctg gaagtgtgat taggtangag ggaaactgtt ggaccgactt ctggcccctg 600
ctcaacactg acccctctga atggtnggag gcagtgcccc agtgcccaaa aatcccacca 660
ttantggatc ggnncntatg aaaaagaagc ctggaaaaag tattggggcc aatgtgttaa 720
gngnggaatc ancacattcn tactgnnat 749

<210> 3946
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3946
agnnnnnnnt tnnntctttg ngcctaatgc ttggctactt gttctttttg caggnaccca 60
tcgattcgaa ttcggcacga ggacttgatt tggtaatgaa aggacaaata gctttcataa 120
catgaacata caaaaatага tgctttgctg ttgttcagtt ttctcaagac ttactgtttt 180
aagcttgtaa aattaatgaa cagtaaaata gcagaaaata gtgatacatt ggatgatttt 240
aatagtttta ttagtgagat atttgaggta ttcgaattac tacaattctt tccaatccta 300
caagttaaaa attttgttat ggttgctgac ttttaaatgc tgtttattct ctgaaggcag 360
ttttatgatg catttagaaa aaaggtaaga gagatgtagg cattatactg gttcatcttt 420
tacctaatgc atgaccagta tactagagga agttgtgatg gaccagagtc tttttgtttt 480
gtaatcaaat gaatagttcc ttcataacca ggacagctag tgtgtgcttg agaatgtctc 540
cctcactata tgatctggga tattctgcat taaaaggact cccttcccag tattgggaga 600
aagagagatn aattgacaca tttttactct gactccttca tttatctttc cacataccag 660
gatcattttg gnctttaaa atgtccaagg ttccaataag tttaaatggt attagtggnc 720

ttctacattt gatcagtaat gnagatggc 749

<210> 3947
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 3947
agagnnnnnn ttttgactcn tantggctgg ctactngttc tttntncang nngcccagcg 60
gttcgaattc ggcacgaggt ccatctttgt agctgacatg acacatttta aaaatttcac 120
attaaaatga aggcatctaa tggctccatt atgtctttta gagtggtctg gcccagctaa 180
ttgcatattg aaatacatta gatttgtcat aaattacttt cctttattgt cttttctgtc 240
aatcttagga cattaaatgt atatgtttga aattgtgttt aggtnggtta tctgagcatt 300
tggttcatat agtaaagaga gtgttataag ttcactgtaa gccccagggg ctttgggact 360
natnnggttt anaacattgc actaggggaa atgaattgtt aagnnatgnn acttctctan 420
actaatgant catctgantt aatacttttc atgtgaagca tttttaaaga aagcaaacca 480
gcctggtgcg gtggntcaca cctgtnatcc cagcactnng ggaggcagan gcnggctgga 540
tcacgangnc aaganattga gacctnctgn ccaacatggt gaaaccctgg ctctactaaa 600
aatacaaaaa ttagctgggc atantggtac ntgcctgtag tcccagcttc ttgggangca 660
nagcaggaga attgctttga cccgggaatg gaggttcant gacccaaatc gcgccactgg 720
ctctacctgc acaaatgaga t 741

<210> 3948
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 3948
cnntttaatt ccatcagctc ttgttctttt tgcaggatcc ctcgattcga attcggcacg 60
aggggtgctt ctgtatatcc tgacaacagt ggccagccat taaagagttt tgagtagggg 120
aactggattt gtggttttag aaagatcatt tggcttctgt gtgaaagagg ccaaaaccag 180
gagcagaaag accagttagg aagctgtgac agcagttgag agacgatgtt gtcaaagtct 240
gcagcagaac agaacagggg tgaccccaca tggacatcat ctctgctctt cagtcacctg 300
tagtgcagag ttttgaagta ggtctgagca tggaacccgt agtggttggg aaggaaatgc 360
catttgccta tggggtgatt aagatctttt ttttttcct caggcggagt ctcgctctgt 420
cccccaggct ggagtgccgt gacgtgatat cagctcactg cagcctccgc ctccctggtt 480
caagcaattc tcctgcctca ncctcccaag tagctgggat tacaggcgcc caccaccacg 540
cctggctaat ttttgtattt ttaannngnnn annnnnnnnn nnccntntnn ntcntnnnnn 600
nnnnnnnntn nnnnnntnnn tnntttnttn nnnnnnnntn nnnnnntnnn nntnnnntnn 660
nnnnnnnnnn nnnnnnntnn nnnnnnnnnn nntnannnnn nnnnnnncnn nnnnnnntnn 720
nnntnnnann nnnnnnnnnc ntntnnnnnn nnnnnnnnnn tnnnnnnnnn nnnnnnnnna 780
nnnnnnnnnn nnnnnnnnnn annnnnnnnn nntnnnnnnn ttnnnnnnnt nnnnnnnnnn 840
ntnntcn 847

<210> 3949
<211> 743

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3949
agagnnnnnn nnnttnttna ccnctaatag gcttggctac ttgttctttt tgcaggnacc 60
catgcgattc gaattcggca cgagcccacc ttctctctct cattgtctga ttgaaagcac 120
caggtctccc acattgcttt catctttgtg ctgtttgttg tccctttcca tatctgtatt 180
tatgctacct gttagggctc ttgccgaagc aggggtggga acaagaacca cagatatact 240
tctgtggttt gtgaagcatt gtgtggaggg ctgtgtacac agagtacctg gggcagttgt 300
cacagccact ctgtgtggta gctgctactg tgcccatctt agaaatgaga aggctgaagg 360
acccacccag ggccacacag ccagtatacc caaaagtcat acatttgtac tctgttgctg 420
tctcctgtcc tatagtacca cgcactaggg ctcctgtcca tgtgcgtaag aatgaccgcc 480
tanccgtcaa taagatgatc agcaaggtca cacggcatgg cttaagtctc cctttgccta 540
ctgcatgatg atcccgggtg gccagcaagc agctggaaga ggaggatggc aggtaacggc 600
tctcatctct caccactaga tgatgcctna ctcatcctac catgctgggc caccccaacg 660
ttttcttgcc acctatggtc ttttgtancc cgtgacagcc actgtttgac ttcatcgana 720
cttnttgcgc aacaagcacg aaa 743

<210> 3950
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 3950
agtnntnnnn tntgaagcct ctaangcttg gctacttgtt ctttttncag gacccatgcg 60
attcgaattc ggcacgaggg cagatgtnct tggagttcta ccagaagaag aagtctcgct 120
ggccattctc agacgagtgc atcccatggg aagtgtggac ggtcaaggtg catgtggtag 180
ccctggccac ggagcaggag cggcagatct gccgggagaa ggtgggtgag aaactctgcg 240
agaagatcat caacatcgtg gaggtgatga atcggcatga gtacttgccc aagatgccca 300
cacagtcgga ggtggataac gcgtttgaca caggcttgcg ggacgtgcag ccctacctgt 360
acaagatctc cttccagatc actgatgccc tgggcacctc agtcaccacc accatgcgca 420
ggctcatcaa agacaccctt gccctctgag cgtcgctgga tctctgggag ctccttgatg 480
gctcccagac cttggctttt gggaattgca cttttgggcc tttgggctct ggaacctgct 540
ctgggtcatt ggtgagactt ggaaggggca gcccccgctg gcttcttggt tttgtggttg 600
ccacctcagg tcatcctttt aatctttgct gacngttcaa tcctgcctct actgtctctt 660
cataccctgg tgggggtccc ccttntttct ccatggacag aanaccacca ctggggatgg 720
ggaattaaag ttganaacat 740

<210> 3951
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)

<223> n = A,T,C or G

<400> 3951
gagnnnnnnt ntnttgtnnc taatggcttg gctntngttc tttntncagg ctcccatgcg 60
nttcgttcaa tagcatgtta agtagatatt atctgacaga cctacaagtc tcacttatcc 120
gngacatcag acgaagaggg aaaaataaag ttgctgcgca gaactgtcgt aaacgcaaat 180
tggacataat tttgaattta gaagatgatg tatgtaactt gcaagcaaag aaggaaactc 240
ttaagagaga gcangcacaa tgtaacaaag ctattaacat aatgaaacag aaactgcatg 300
acctttatca tgatatttnt agtagattaa gagatgacca aggtaggcca gtcaatccca 360
accactatgc tctccagtgt acccatgatg gaagtatctt gatagtaccc aaagaactgg 420
tggcctcagg ccacaaaaag gaaacccaaa agggaaagag aaagtgagaa gaaactgaag 480
atggactcta ttatgtgcag tagtaatgtt canaaactga ttattcggat cagaaaccat 540
tgaaactgct tcaagaattg tatctntaaa ttctgctact tgaataactc agttaacgct 600
gttttgaact tacatggaca aatgtntagg acttcaagat cacacttgtg ggcaatctgg 660
gggagccaca ctttcatgaa ntgcattgna tacaaaattc anagttatgt cccangaata 720
ggtttaccat gaaaccccat tnnc 744

<210> 3952
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 3952
agagnnnnnn ntntntttgt ctncctaant ngntgggcta ctngttcttt ntncaggnat 60
gcccatgcga ttcgaattcg gcacgaggct cattccagct ggtctatcgt gggcctcaca 120
aggtgaagag ggaccgcatt ctggggccca cgatngacca cctgtagctn attccatcct 180
gnaccttgna tgaggggtag cctcccactg catcccatnc tgaatatnct ttgcaactcc 240
ccangantgc tnatttaagt gttnatactt ttnagagaan tgcgacnatn caattgtgag 300
atctccncct gcccattgcc tgntngnagg gcacctctnc tccaccnnna tggannnggn 360
ngcagctnaa nggccctnan acgganctgn tttcatnaag atnacattac acngagnnga 420
gctaactggc ctgnatngaa angntnntta tgancnaagn nacaancttt ttaanngttc 480
ctganannac ttgngncnct agaacaatag antgtccaat tacaaagatc cncacntgat 540
gcnatacntt gatgagcttg actacaccnc ngctttaatg caannncaaa aantgccctn 600
tttngnaaat nnnacataca tncgttttan gantaaccat ncanaaagtt gnattanacc 660
angttgaacn ccncaatgnn ccttcaattt taannggcta ggntnngctg anggtnangg 720
accgcccnnt nttgtttgct cggccnggna atgggattgg ccct 764

<210> 3953
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3953
agagnnnnnn ttttttntc nactaatgct tggctactng ttctttctnc aggntcccag 60
cgattcgaat tcggcacgag gtgatgctgg tgatcaatgg actggaagcc aacagcagag 120
acttagaccc aagaagggag cttgaggtac aagaaaactt cagggtagac aggaaggagg 180

cgtggtgaaa gtgatgaaag gggagagtag aagggtggtc cagggtcaga cagggagtta 240
gatttaatcc ttcagggcac tttcattaca tcatagctgc cattttgtct tttatctgac 300
tcaataataa gtcagtaata agtaatgttt taattaaagg taaatgcttg gcaggtaggt 360
taaacttcat tgagtcccaa tcctgtcata attattgtgt ataccttttct cagcttttg 420
tctacttgaa atatatttct tcttcctttg agcagccaaa atggaagtgt tggatgtgtt 480
ggctctgttg gtaggctcct gttggatgcc tgttgtcact cataaatgta acaccacaac 540
cataattgat ggcanagttg agttgcaagc ttttaggact aattgcaaag tctaaactaa 600
aacatttcct gganctgcct ttaaataata ataataatac cttgtataga tacagtgctt 660
tacaatttac agagcacttc cacatacatc atctcattta atcttcacaa ttaacaatgc 720
nttttgaatg cttagatatt tcctangg 748

<210> 3954
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 3954
agagnnnnnn ttttttntc nactaatgct tggctactng ttctttctnc aggntcccag 60
cgattcgaat tcggcacgag gtgatgctgg tgatcaatgg actggaagcc aacagcagag 120
acttagaccc aagaagggag cttgaggtac aagaaaactt cagggtagac aggaaggagg 180
cgtggtgaaa gtgatgaaag gggagagtag aagggtggtc cagggtcaga cagggagtta 240
gatttaatcc ttcagggcac tttcattaca tcatagctgc cattttgtct tttatctgac 300
tcaataataa gtcagtaata agtaatgttt taattaaagg taaatgcttg gcaggtaggt 360
taaacttcat tgagtcccaa tcctgtcata attattgtgt ataccttttct cagcttttg 420
tctacttgaa atatatttct tcttcctttg agcagccaaa atggaagtgt tggatgtgtt 480
ggctctgttg gtaggctcct gttggatgcc tgttgtcact cataaatgta acaccacaac 540
cataattgat ggcanagttg agttgcaagc ttttaggact aattgcaaag tctaaactaa 600
aacatttcct gganctgcct ttaaataata ataataatac cttgtataga tacagtgctt 660
tacaatttac agagcacttc cacatacatc atctcattta atcttcacaa ttaacaatgc 720
nttttgaatg cttagatatt tcctangg 748

<210> 3955
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3955
agagnnnnnn nttgttnnct acttnatgct tggctcttgt tctttttgca ggctcccatc 60
gattcgaatt cggcacgagc gcataaggaa agctggaaaa taacctataa ataatggcaa 120
aaaaaaagca aacaatagga agaggaacta tataaaagga acatttggag catagaagag 180
agttcatgga aatgtaaaaa atgatggtac cctgggtttg atatagtaag taaaaaacta 240
agggtaagag ggtcatgaaa gcatctanaa ntaggaggga aagccagtca aattcacagg 300
atgaagtcag gaagataata gagcantgcc cgcangatcc tgagggaaag caagttccaa 360
tctataagtc tgtaaccctc acacctgatg gccccttgaa catattcagg gcttcaaaag 420
attgatctgt catgcaccgt ctgccatgat actgtgtgag gatgtgttct tcttcttaaa 480
cattaaatca agaaagaatc atcagtggac ccagtnaata ncanatcagc ctaggataag 540

atgccctaga agatggtgaa nggaagtctc agaactactg ttcttcanca ggcagcnaan 600
acacctgatc catattggag tggtgggatg cgagcttcag gaagggatgc cacaagggna 660
aagtggaang gatgatgact gtcttcaaga agttacaggt ctttaagaat ttacatccaa 720
cattactttn gcttcgaagc cccggctga 749

<210> 3956
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 3956
agagnnnnnn nttgttnnct acttnatgct tggctcttgt tctttttgca ggctcccatc 60
gattcgaatt cggcacgagc gcataaggaa agctggaaaa taacctataa ataatggcaa 120
aaaaaaagca aacaatagga agaggaacta tataaaagga acatttggag catagaagag 180
agttcatgga aatgtaaaaa atgatggtac cctgggtttg atatagtaag taaaaaacta 240
agggtaagag ggtcatgaaa gcatctanaa ntaggaggga aagccagtca aattcacagg 300
atgaagtcag gaagataata gagcantgcc cgcangatcc tgagggaaag caagttccaa 360
tctataagtc tgtaaccctc acacctgatg gccccttgaa catattcagg gcttcaaaag 420
attgatctgt catgcaccgt ctgccatgat actgtgtgag gatgtgttct tcttcttaaa 480
cattaaatca agaaagaatc atcagtggac ccagtnaata ncanatcagc ctaggataag 540
atgccctaga agatggtgaa nggaagtctc agaactactg ttcttcanca ggcagcnaan 600
acacctgatc catattggag tggtgggatg cgagcttcag gaagggatgc cacaagggna 660
aagtggaang gatgatgact gtcttcaaga agttacaggt ctttaagaat ttacatccaa 720
cattactttn gcttcgaagc cccggctga 749

<210> 3957
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3957
agtgtnnnnt tttaatccct actaatggct tggctacttg ttctttttgc aggnacccat 60
cgattcgaat tcggcacgag aagagaccat catctcatca aagagagtta aaagtaggga 120
tgttctctgc aaggcctctt ctgatatgat taattgattg taaattaagt aatcaaggca 180
tactttgttg atttgtcata tctgggtaaa aggtttatgg tttatttaat aaatgaaact 240
gcaaaatcag ttttctacat ttctgttata tttttgttaa agcacttaaa agaatttctg 300
ctctgtccag gggcaagatt cttgccaaga gaattaatgt gcgtattgag cacattaagc 360
actctaagag ccgagatagc ttcctgaaac gtgtgaagga aaatgatcag aaaaagaaag 420
aagccaaaga gaaaggtacc tgggttcaac taaagcgcca ggtaagaatt tggtgtatat 480
ttcattggtt ctgagagcac tttaaggttg agatttaaca catcacataa ttattntatt 540
ccctttttt ttcctttaat agcctgctcc acccagagaa gcacactttg tgagaaccaa 600
tgggaaggag cctgagctgc tggaacctat tccctatgaa ttcatggcat aataaggtgt 660
taaaaaaaaa aaataaaggg acctctgggc tacaaaaaaa aaaaaaaaaa actngagcct 720
ntagactntg tgagtcgttt acgtanaacc 750

<210> 3958

<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3958
agngnnnnnt tgatccttnc taatgcttgg ctcttgttct ttttgcagga cccacgattc 60
gaattcggca cgaggtaatt tgtaaattct gtggtacttt tcaaatgtat atcatttact 120
gagtctgatt atcacacggc ctggcatata ataagtactc tataagtatt ggctgatttc 180
taataggtct gaaaatttat cctttagaat tttttcttca gttggtttag cgagtttccc 240
tttgatgttg aaaatgtttt tttttaaaaa tctaacctag accatcccaa atcatgaatt 300
actgttgtgt gaaacagtga gactactgtt tttatgccac aggtttataa ttatgcaaat 360
aaatactaca tctttgcatt cattttggtt ttacttaccg aattttcatt ccaggaatgt 420
ctgaatctga acaggctctt aaaggtactt ctcagattaa attactctca tctgaagata 480
tagaagggat gcgacttgta tgtaggcttg ctagagaagt tttggatgtt gctgccggca 540
tgattaacca ggtgtaacta ctgaagaaat agatcacgct gtacacttag catgtattgc 600
aagaaattgc tacccttctc ccctgaatta ttataatttc ccaaagtctt gttgtcctca 660
gaccttattg ctttaaaata taataatgnt ttcattactt ttattatttg gaatgattta 720
gtaaaagttg actgaatctg gtt 743

<210> 3959
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 3959
agagnnntcn tttaatctna ntgnactctt atggcttggn tactcgttnt tnnnnaggca 60
gcccatgngn ttccaatncg gcacgaggcc aaatgcactt ttgtgtatcc naagngaaaa 120
gangagaggn ctcggatgac catgcttagt taanggggag ggtgaccttt natatgcaag 180
tngggaaatn caganaaagt gaaaggggnc canaatgaaa acacatgaaa taagataagc 240
aganatgaaa ngnggcncta gaactgtaag aagcatttga acaggcanaa cagtgctgga 300
gactttagga gagggctcaa gctgccatgt ggccggtcct caaatagttc tagaatgact 360
agcatatctt tttacaaaac tatnagcaac ttgagggcaa aaataaagtn tatttatctt 420
gcatccngaa naataaacnt ggtgctnggc attnggtagg tnnnctttat gngtatatat 480
gaaaagcata ttttcatttt attagaacat tgtggtaaaa attctattga aaaccatgct 540
ntaatgtaga tagctcnact tanttcggan gttccaaact ttttngttca agtncccatt 600
tatgctccta aaattggtct gccagtctaa aatacttant tnatgtnggt natgtctatc 660
gatatttacc atttnagaaa ttaaaactga nagatttgaa accattnttt naaaccctta 720
catgntaaca taaaacgtat ttt 743

<210> 3960
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(726)
<223> n = A,T,C or G

<400> 3960
cttatcttct aatggcttgg ctactngttc tttttncagg atcccatgcg attcgaattc 60
ggcacgaggt gaccaccact ccattcttgt ctcctgtgtt ctcggttcag accacccaca 120
aaggcagctt caaagccaaa tcctcaggaa gggggatctg cccgggctag ctagtcacgt 180
gtcaggcaca gtcagctctg ttgaggggtg tgcagtgagg gctcagtgag gccacagagc 240
tcagatgtgg ctatgaagac tcctggttgg tgggggatgg cagttctcac agatgagagg 300
tatggatggg ctgggtgcaa tgactcacgc ctatgatccc agccctttgg gaggccaagg 360
tgggcagatc acttgaagtc aggagttcga gaccagcctg gccaacatgg tgaaacccta 420
tctctaccaa aatacaaaaa aattangtgc ccatggtggt gggtgcctat attcccagct 480
cccaggagac tgagcangag aattgctcaa acccaggagc ttgaggttgc agtgagtcaa 540
natcacacca ctgcnctnca cttgagcgac agaataagac tctgngttaa caaaannaaa 600
aaaaaaaact cgagcctcta naactatagt gagtcgtatt acgtanatcc agacatgata 660
agatncttgg tganttttgga caaaccacac tagaatgcan tgaaaaaaat gcttttattt 720
gggaaa 726

<210> 3961
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 3961
agngnnnnnn nnttntctta tntacttaat gcttggctac ttgttctttt tgcaggctcc 60
catcgattcg aattcggcac gagctgagtc tccttataga tgaggcagca gaggcctttt 120
acaaatacct ctcttgttcc agttacacaa gtcataattt actgagcacg atggtaaaat 180
cctttaaaaa tgtagtaaaa agaacagagt atgcatatgc aaaggaggag attggggaaa 240
gcaaattaga agtctatgca ttctgtagac agtgaaagct ggttcaagca gaatgaataa 300
gaaagtaatt taaaaagaag gcatcactta ttgactaagg tcaaacagga ggaatacaca 360
taaaaaccag aaactaactt caagcagaat gaataagaaa gtaatttaaa aagaaggcat 420
cacttattga ctaaggtcaa acaggaggaa tacacataaa aaccagaaac taacagcaat 480
tatgatgata atattccaaa aaaaatcttg agtgaagaag aagaagaaga agagtaatag 540
caaacccttg tgataataag tgccaggtgt gtagtatgtg ctgctattaa agtaaatgga 600
tgttcaatta tttaatttat aattctggnt tcatggatag tcctttaagg gaagtgctat 660
tttgatgttc atctttacat gtgaagaacc ggttaagaga gattactgat tctccanggt 720
cactcactga tgggtggtgg naattgg 747

<210> 3962
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 3962
agngttnccn tannaactcn tgaaangctg ggctacttgt tctttntnca ngnngcccat 60
gcgattcggg aaccaggggc tgcagaacct ttccctcccc aatgaggacc ccctctggac 120

gcccctcccc atggagaaca ccaggagcca cagaccccag accacagagc acacagggga 180
gggcacgggg cggccggggc agggtgtctg ctgcctcgtt tatgggattt gctccgcgtc 240
tagcacactg ctgcctgcag tgctcctgtc ccctgcagtg gctactctgg gcctacgggc 300
ctaatcctgg ttggcatgaa aatgtcctga ggctactgtg acaaatttcc acaagctgag 360
tggcttaaag gaacacattt gttctcttac agttgcaggg gccanaagag tctaaaaaca 420
gtcagcaggg ctggttcctc ctggagctta gaggggctga atccgtttcc tgccttttt 480
agtatctgga gggcgcctgc atccccttgc ttatggcccc ttccatcacc aaagccagta 540
gtgtcacatc tttcactctc cctgacctga ctncgccttt ctcttagaag gaccctgtgt 600
gactttggac tactagataa tttagggtca tctcttcatt tcaggaacct ggaatttaat 660
cccacctgca agtnccttt gccaggtaag gncacaaatt cacanggtct tgaagatgaa 720
agatgttgga ccctttttga gggncatgat 750

<210> 3963
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

<400> 3963
tnttcatctn gcnnttggnc ttntngcacg atccctcgat tcgaattcng cacgagacac 60
attcttccat ttgtcagtaa gagtaataat ttgactgttt tattggattt tagccttttt 120
gatttcatat agctgtatct taatatatca ttgtttttaa tatgtctaca ttgaatactt 180
attacttgtg caatgaaaaa taataattaa agatgaaagt taagcctgtt accactttca 240
gagaacaacg tgacgttttg gaatttaaaa ttttttcagt agatttgaga aaaacttggg 300
ttaaaatgaa gatttatgct cagaactgag attccagggt ttaagtctgg ttttaaagct 360
gtcttcaaga ttttaatgta ttttctgtgt gtataggatg ctctcatttc tgtttttaaa 420
aatgaaaggg atcgctcctg taatcccagc actttgggaa ga 462

<210> 3964
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 3964
ccccctttnt atacccntcc tnctactngn tctttttgca ggatcccatc gattcgcttt 60
gtcccaatat ttgtgacacc agtgtaatga cttggttaag ttgggttgac caggttcctc 120
cactggncag gttatacttt ttcattctgt aattaatgta tcgctatata ttttatatac 180
tttgaaactg taaacatctt gtcctcatca aaccttcacc tactaatttt agcagtcatt 240
gctaatttttt taaactccca ttctttctac atttagtagt tggcattcta ctataaggaa 300
gaattttccc tttttcctta tttgtgtata cttatttatt aatatttatt atttattaat 360
atatatgcaa gtatagacac ttgcattctt attgtattca gtggattatg atccattgct 420
attttctgtt tgggctaaat tgtcccatat tccatcagtg ggaatgcctt caagttaact 480
attgtgtgcc tttgacatgt gcccaacatg gtgaaaccca atctctactg aaaatacaga 540
aaaattacct tagcatggtg gtgtgtgcct gtaattccag ctactctgaa ngctgagtgg 600
ggagaatcac ttgagcctat aaggcanang ttgcaatgag ccnagantag cgctactacc 660
actncancct tgggtgacag cgtgagaacc tgtctcaaaa aataaaaaaa gaaaagagaa 720
aaaggaaaaa aaaaaaaaaa aaactcnacc ctctanaact ataggggagg cggtattacg 780

tagatccaga catgattaag anacattgat gagtttgggc naaccnct 828

<210> 3965
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 3965
ttnattccat cagctcttgt tctttttgca ggatccctcg attcgaattc ggcacgagat 60
agtaaattag tcatagaaag gcaaactcaa ataactttga acacagctct ttgactatcc 120
acctgtgtgt aaacaaacaa aactacaaag aaattttgta cttcacttag ttggtagtga 180
tctggtatag caattctgaa aatattttct gtgtattgta ggattaaaca aataagtaaa 240
tataatgata ttcttgggag ctgggatcct cactatgaga gaagaaagat aaaaatatgg 300
agtgaaggaa ggcaaagaag agctccatga attggaatga gagattccac agattactta 360
ttaattacaa agataaaaaa ggaaccttta tagtggagaa acttggaaac ttggtggata 420
acacaacttt tcgtttttt ggagacagag tctcactccc tcacccaggc tggtctcaaa 480
ctcccgacct caggcgatcc acctcaaagt gctgggatta caggcatgag ccctgcgcca 540
ggcctatttt taaaaatcag atctctcctt tgctccaatg tttttatcat ggaaagagac 600
aaatcactca tattttcttt ttncagacaa tactgctttc tgtggtgtag cccaaaagac 660
tcgtcttttn catgttcagg taatttattc tttgggagag cactgtaatc atatatcaat 720
cgtattttna aagtgacttt attatttaat gtcaagaagt nccttggttn tgaaagtagt 780
ttttttaat taaaccgcca ncagatcnat 810

<210> 3966
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(857)
<223> n = A,T,C or G

<400> 3966
ggnnnccctt ttgaaacccc ntaaagctac ntgntctttt tgcaggatcc catcgattcg 60
gaagaaactc ccatgaagtt caaaggagca gcagatatgc agggtgcatc tagaaatgaa 120
aatctgaccc tttgtccctc tccttttcat ctctcttttg tacaggcctt ctttccttct 180
gtgcaaacag acccttgtca tagtcatagt ccatcacgct gttaaatgat ttccagcact 240
gctctatgat gtgctgtaat ttcagggagt agtttatttt ctacaacatg ttgctctgta 300
gcacgtgtat ttcactactg agtggtagtt ctaatggaca tattcttaac aaaatagtcc 360
cagcattaca gaatactagg ttagaataca tacccaaata aataaaatgt tacagacaca 420
gtccaagctc gttctctcct gacttncttt ctcccgctac agaggaaaat taccccgaat 480
tggcacatct cattcctatg cactcttgtt aaaaataact tatagtttgc ttctgaattt 540
atagaaatgg gcactataat ccatatgtct tttgaatctt tatacatttg atttggagaa 600
agtatttatg tttgatgcca tgtggcttta ggncatttat tttaattttg gttatttttt 660
tgagatgaaa gtctcggtct ggcacccagg ctnggagtgc aaatgggcac atgggaacct 720
ttgncctccn tggggttcna agcaanttct ggtcttcata cctgtaantc ccancacctt 780
ttaaagaagg cccnanggcg nggggaaggg atcaatttgn gccccccttgg aattttggag 840
gaccnagccc tggggct 857

<210> 3967

<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 3967
ttccatcaag ctcttgttct ttttgcagga tccctcgatt cgcttcagac ctgtgtttaa 60
attttagctc tgtgatctgg tagcttttga ccttgagtaa attgcctaat gttactcagt 120
cttagtttcc tcatcagaaa agtggtaagg atgataaagt agttcataaa cattcattga 180
gcactaagta tttgcaagat actggaggta taaagatgaa taaaacactg ttcatgtctt 240
tgaagacttc ctagtcaagt ggtgaaatta aacataaaaa caggacattt taatattacg 300
tgcaaagcac atagtgggca atgtgttggt ttgaagaagg atttttgagg aagtggaagc 360
tgaactgcag tttgtagaat aagtaagagt ttagtcaggc aaagcagata gacaaggtca 420
ttttgggtgg agcgattaat ataggcaaag tcatgcaatc atgaaatagc atgatatgta 480
tgtgaaataa gagtactttt gcattgtagg ggcattaaac aggtgagcag tcactggaga 540
tgagattgga atggtgggca gggcctaagt ccctgagctg caatgtcatt gaagctgagg 600
acattgagaa tttaaagaga tagagtgagt ctgnggcctt tgctcataac tctcattttg 660
aaagactaat gtgtgacatn ccacatttta ggggtaggaa ggcntactgg aaggattaac 720
ccaaagttgg ntagaaactg ggagaaagan naacnccctc aaaaagttgc ttgagagcta 780
aattaattga atgtggcttg ggaaggatca attt 814

<210> 3968
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 3968
gattcccata caagctcttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ggaaaagtaa agagatcaaa atgattttat atgtattttt tttgtactca gagaattaca 120
ttttcactac ccccgcctgt ctcagggaat agcctttgat aagaatccca tggagatctc 180
tggaactcta ttacagtgtg ttcagatttg ttagttcata tgtaaatttc agagctagag 240
cttcaaaact agagtattgt aatctcagga acataagatt atccaagaag cctgaacctt 300
gctcttttca tgataaatga catccaaatt tcctttgtct aggagataag catagatccc 360
ttttatcatg cttctctgag attttcacag aacaaccctg caatttgatt ttgtttgata 420
attttgcttt ttggcttttc agtgaggact ctattttcca ttggaactga ctcctttggg 480
gataataagc tttcacttaa aagaacattc cattagatag ttctaacttc aatgaaccta 540
aaagtggctt cttaatttga ataatctgga taacttttgc aaatgggtca aaacagcaca 600
agtattatac atcaaataaa aagttcatta caatatttgt actcataaag tcaaaatctg 660
accctggttc gctttgtgcc tctgtcagcc tacttacagg ggataaaagg tncacaccaa 720
gtccagtggt tgccaangga gctttggtta ttagaaaaga agcctgggtc cccctcagtt 780
ctatgccggt gggggggggc ccgggtnggn ancatggccg ncatg 825

<210> 3969
<211> 877
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(877)
<223> n = A,T,C or G

<400> 3969
ggncntttaa acctttgtac aagcccttgt nctttttgca ggatccctcg attcgaattc 60
ggcacgaggc aacaaaagca tacaagatct tttttnagga agtggaggag ctgcagggac 120
cgaccgggag ctttcccagt aagcatcagt tcanaaacaa atttaagtaa agaaatggaa 180
tctgtaatga aagatataaa aaataccact cagaagaaat atagagacta tagcaagacc 240
ccgggctcac cagacaatga ttttctcttt atgtactctg ttgctagaac caatttagaa 300
cttgaattga ttcatcgagg aggcaatttg tgttcaggtg gtgcaagcac agctggcaaa 360
aggtcttgtt taaatcagct gtttcatgta ttagccttgc acatgcggct ttatagcatt 420
gactctgagt ataatccctg gagaaagctc acccagttag aagagatgaa tccacagctg 480
ggatatgaag aacaacagcc tgaggttcca attctttatc atgatgtaca tccctttttgc 540
tcatccagat cttaatgatg ccacaaccct tacgcaaaag accactttac ctgcattgtg 600
aaggtctttt taccctactg tacacacagg ctcttgcagc actctcaagt taaaatgcag 660
ccgaagaaaa tagggtcagc cctgggaaac accccgggag cctcttcaaa aaagaagtac 720
cattgtggat ggccagaaaa agtctttacc gaaagtattt aacttggngg ccttttggtg 780
gaataaaggt ggnaacctat ttttaaaaag ggaaaagttt tttccccntg gaaggaaang 840
gnaccttcag gggaatggtg gccaatnggg tttaacc 877

<210> 3970
<211> 912
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(912)
<223> n = A,T,C or G

<400> 3970
ngncttgnnc cttgaaaccc ccgncntggc ggacccatcg antcgaattc ggcacgaggg 60
tcancaatan gcgannctttt tnnatccngg cgagagacac gccaataggg ggnatttaga 120
nacgtggggc tccannnatt ttctctgggg acaagctcat tccttcctca ttttctcaga 180
actttggtgt taacagccng ttgcctaatt tgtaggggct gactttgact nagcagatgc 240
cttctgnaga tggaggaaat aacgacccag cncctttaa ttcacccaag ctgaaaccaa 300
atgcgaaccc ngagcagcct ggattcattg acgagccagc accantgaac ccacccaaac 360
caaagccaaa tccaaaaccc caagccggcc tgaattccac cgggggatga cttttgatct 420
ccacagangg nntcttcatg gggaacnaaa aacaggggan gntgcactcg attnctggaa 480
gtggtatgcn tcaggagcna ccgtgnantg tantncancc cactcntcaa atncataaac 540
tntgggagan tccttcaatt cactgggcaa anccntatgc cntaanngct anncnctgan 600
gggaggctcn tncantgcaa aaanccaaan atccaacctn gggaagaatt caagtcaaag 660
acccaanaag gaggccnggc aatcaagnct ccttggncac cgaatcnttn acangncann 720
gcttacccng gganggcacc ntatggcnga anctctgtgg ggggcaaacc ctcgtgggga 780
cctnccntgg nttccccagg gggtgcncac anatattang cacctnantn ntttanctgc 840
ccantgngcg tntnttatgg aanaaaagna aatcaaaaca tgnggganag ggaaacccan 900
naaaaaaaaa cc 912

<210> 3971
<211> 816
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 3971
ttgattccat cagctcttgt tctttttgca ggatcccatc gattcgctac gaccccatca 60
atttggccta taacttgaaa gagaattcta tcctgctagc taaagttgct cggagtgacc 120
agtgagattg ttccacagca tgtatattat aaaacaaata ttaggcagat agcttataat 180
gacttttaa tatttattta ttcatttatt ttataataag cagacattgg gacaagaaac 240
ttctgaaaat atttatagtt ctctgaaaga aggtgtcttc ccttccttct gggagttaag 300
gaatgttttg acaaggaaga aagatgggtg aataagagtg tattgtatta ataactaaca 360
ttaattgaat atagaatatg tactaggggc tgtaaaaagc tctttatatt ggattatggt 420
atttaatcct caaccttatg agcctgatgc tattaatgcc tctattttat aaatgaagaa 480
attatgtcac agaaggttaa ataatttatt caagggcaac ttgccaagtg agcattaaac 540
ccccagagtg atcctctccc tangtgcaga gcaaagttnc aaggggcttg gtatgcacca 600
gtctcagatg attctattgn gggtggctgc cagaatcaag cttgctgtga aaacactgat 660
tggaagaaaa aatagtcccc accagctatn gctatnggtn cctgtgcatg aacctgagaa 720
gaaagccaag ccgccntaaa agatgtagag tccaaacctt ttgctgcagc ttccntggaa 780
tacgggcatn tgcacccaaa acatggntta aggggg 816

<210> 3972
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 3972
attcanatac aagctcttgt tctttttgca ggatcccatc gattcgaatt cggcacgaga 60
ggaagagtat ggctcctgaa cctacacaga gctctacagt agtcgcatct gcccagcaag 120
tgaagacaac gcaaacttca aatgctcctg atgtaaatga tgcaattgtg aaactattca 180
atgattttga tgttaaggaa acctcccatc atttagtgat ttctcatcta gatctacaca 240
tatgtgatga cattcatgct aaagaaaaag agtcaaacag acgtattact ggaggggcaa 300
tgcaactctc ttttacacag ctaactatag attattatcc ttatcataaa gcaggagata 360
gttgtaatca ttggatgtat tttagtgatg caaccaaaac aaaaaatgga tgggccaatg 420
agttattgca tgaatttgag tgcaacgttg aaatgcttaa acaggctgtg aaggatcata 480
atgtangttc acctcctaaa tccccaacac atgcctnttc ccagcacaca caaacagaga 540
aggactccct ctgaaaggga catgcagaac accttcagta ttatctcaac aatcaaaagc 600
taagctaatg tctagttctg gtgtgggtag acttgcagat ttcaatatat cccaggtctt 660
ntacagcngg acaatgtcgn tctttccccc aaaaaccatg atttgctgca ataaaaaatn 720
cctttntntt tccacaagaa aaggtcagct gtctttttta gaattcacca gaatntttcc 780
tattccaaat gggaaaggat ttttccaant tccatct 817

<210> 3973
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 3973
attcnaatca gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagcaa 60
agccatatac tggtgaatat atactgggtc aagcaccaca tgttagtttt ggaatgtgta 120
tttcccagcg aatagaattt actgctccaa aaagcttttt tggcataaat cacaatactt 180
acagaaatat aattgtatca ttgaaaaaaa caaagctcac cttcctaatg atacatttca 240
caaactgcac attagggcaa tttcttactt atgaggaggt caaagaaata ctctgtcaat 300
atagtataac tgcttatttc aaattgtatc taggaatgaa taactactat tatttaaagt 360
actactgaat tttgaggaac tgatcaaaga attagtatta ttaataaaat tgtactattt 420
gcaatatatt tgccttggca caaatgcaga gttaaaaaca taaaattata aaaaaaaata 480
atagtgattg gttgttacta ctttaaaatc ctactaattt ccattagcac taaatcaaac 540
agcacttatc tgttgtatac aagtaaaatt ttgaaagact cngacacaaa atgaaangct 600
ttttaaaaat gtctttgcca taacanggta tatgacccct tgctaattgg tatatttcct 660
tangggcact ttgaggctct ttcaaaagac atctgcgcaa ttagggctta aattagaagt 720
agaaatattt tggcngatnt ttactatntc acaaaaaggc ctacctactg gntttataat 780
aaaanccaat tctcaagtnt tctn 804

<210> 3974
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 3974
ttttgaaacc catcanctct tgttcttttt gcaggatccc tcgattcgtc cacacctcac 60
gttcagtcac agccctcagc tatcttccct ccggccactg ggctacctct ccttcagtcc 120
cagaagacaa gtctcaccaa cccagggagt caaggaccag caaaccaaag tggataatgg 180
actttttcat tcctgttttt cttggcagga gagaagcaag gccactaaaa gaggagatgg 240
tggagacgga ggctcagcag tggtcttgag gggtaaagga cttagatgcc cagatgaaga 300
gggaaagctg acatctgcag ggaacccact ttgaggctga ggccatggca ggacagctgc 360
tgtggggtgc agaggcagaa gatgaaattc ttagtgatcc agaggttctt gcagccatgc 420
aggatccaga agttatggtg gctttccagg atgtggctca gaacccagca aatatgtcaa 480
aataccagag caacccaaag gttatgaatc tcatcagtaa attgtcagcc aaatttggan 540
gtcaagcgta atgtccttct gataaataaa gcccttgctg aaggaaaagc acctagatca 600
ccttatggat gtcgcaataa tacaaaccag tgtacctctg ccttntatca aganacttgg 660
gtgctttgaa nataatcctc ccctttccc caaatgcagc tgaacattta cagtgggttg 720
ccttagggat tcattcaata tgtttcctac taggaatcca actttaacat ttttaatctc 780
aaatattat 789

<210> 3975
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(871)
<223> n = A,T,C or G

<400> 3975
ttcccataca actacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggt 60
tgggcttaga agatggggct gagtagggag agagggtgct gcctgggagc tgagccatac 120
aagtgactgc acaggttgac atggaggatt aggtggagtg aggcttccaa gcagggaggg 180

gaatgatggt ggggcccaaa tgaggagcca catcgaagta gatgagagaa tagaaggtga 240
agtaagggct ggcgttgggt agggggagac gccagcagtg atgctgatgc ccaggctgta 300
ggtgtatagg tgccatccac ctggtaaaga gagagctgta gcgcaggaat gaggttgcac 360
atgtagaaga agggaaggat acaggggaga gaagtgtctt ctagtcctaa aaaacagcct 420
gtgggctggc atggtggaac aaacctgtaa gtcccaacac ttcgggaggt caaggtaaga 480
ggatcatctg cttgacccag gagttcaaga acagcctagg caacatagta agatcccatn 540
cctacagaaa aattaagaaa ttagcccgga tgtcgtggca cacaccttgt tgtctcanct 600
tacttgggga ggcccgatct tttggagccc cngggaaggt caaagtcttc caatgaccnc 660
cattgatctt tgcccacttg gacttttaaa ccctggggcc aacttgacnt gnccaaccat 720
tgttntttna aaaaaaaaaa aannnnnnnn naacttcgaa gccctttta aaaacttttt 780
agtngagttc cttatttacc cttanatncc caacccttgg ttnaggatcc catttgattg 840
aattttggga ncaaaacccc caacntttgg a 871

<210> 3976
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 3976
naaanaaaac nctttttnaaa ctacccggtc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggcc taaagtaact gaagatccat ctnttcgtat acgtgcaagt cacaagggat 120
gcgatggctt ggcttgggct cagaggcctg acactagtta ttataaaatg tactttcagc 180
agtcttctgg gacttgacta ccttgtggat tgtactagaa atgtcaggta tggtgactgc 240
tctgcccacc actctaaatg aaactgtccc cccacagtct ctgttgccca ggtgtcctat 300
gtccctcgtc acagctgaat ggaccaaggc agatgtgcta tcaaggacag ccaatcacaa 360
gtgagcagta atctctgata tgctttggtg caaaaagctg agttgagtca acagttattt 420
aaatttgtgt gcagtcactt ccgtttgctg gggaatggcg tggtgaggga agattgatat 480
aagttacctc atatctgggt tacatggata tatatcctac agttgcttaa aatacatttc 540
angattcttt ggtttgcagc atgtgttttg gaaaggacag ggagaggaaa ttaagaagtg 600
gagtgaaatc caaggaccct tcacctgccc aaaaagtgac gggcttctgg tgtcaancag 660
gtgacagctg gcaaggcttt gccctgangg tcgacagaca aaacaagcan tgcacatagg 720
gaagacacaa gcaaaggttg agctcnttgc catatanagc tgcatgnaaa agcttaacn 779

<210> 3977
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1005)
<223> n = A,T,C or G

<400> 3977
gatcttctgt catttgcttt tctgagtttt ggccctcctg tcaatctatc tggtcgggtt 60
tacttttctn catcttcaag caggggtgtg tcttcaagca tgcatgtctg tgntttgatt 120
cggaattgat aagttataat agaagcatga gctgctggga aaatatacct cctgatttgt 180
gtggntttat ttgttcatct tgcaggtttt gagtagtttt tggtggatgt gttgggagat 240
ttnaatgtta cttanctggt attatctcta ctactttggg ggtcaatatt gaatttttc 300
actgaatccc agcccaacac tntnttttt tttggcncta attncntcga aaaaaaatgg 360
ngtttggatt taagaataaa gangaaaagt nntggttttt ttagccaggg ttcttgtcct 420

ancaggaaaa aggcttttgg ttccttaaga aaccccatan ccaatttggg gaaattttta 480
aaatttnaaa tncaaaaagg ccctttatat ttattgggaa aaccatcctt ggccttaata 540
attnaattcc nggcnaaatc ctgggaaaat gggaaaaagt ttaggaattg gaaaaaaaaa 600
aaaagnaccc nccgggntnc ccaaccaaat aaaaataccc ccnccccaaa aaaaccangg 660
ccatagaccc cacctctggn aaatttcnaa aanggggccc tttaattaat aanggggggg 720
naaaaaanat ttttcagncc ctnttggaaa cccntttggg ggnggcccgg natttaccng 780
tnanaaatnc ccccancctt ggaattaagg aatncatttn gggtgganan ttngggncca 840
aaacccccna acttnggaaa tgccaaaggg gnaaaaaaaa angcctttaa tttgnggnaa 900
aaattggggg agnccaattg gctttaattt gggnaaccnt ttataaagcc cgcanttaaa 960
acaaggttaa cncncccccc aatngccatt ccatttaaag gntcc 1005

<210> 3978
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3978
tttnnnnnnn nttnnnnnnn ttttgaatnt gaaanccttn anacaagcta cttgttcttt 60
ttgcaggatc ccatcgattc gaattcggca cgagatataa aagcgtttag aanaagaagc 120
aaaagagacc cgcacattcc acccagggag ggcatggaga aagaacagtg agtggaagga 180
aaacaggtct gtgctgcctc aagcatagag gtctttctat ggcaggcacc cggggcagcc 240
aaaaggacac tgtccacagc caggccagag tctanctgtn acacacatan gcaggtgtgt 300
tgcatacctc aagcatgcgt tcacgagttg tnatacttaa gngaatttgt ttttttacag 360
naacaaccta tagttccatt taaaaaggga tngttattta attttaatta aaacatatag 420
tagntgtttn ctcactttgg tttatgtatc cattttcaac agctttgttg aggtgttgtt 480
tacacaccct caaattcact ngttttaagc atacaatnta ataatttta gtaaattcag 540
aattgcgcaa acatcacaat ctantaatag aaattttctt tcactccaaa agaaacctgt 600
gctctattta gcaactccct gttcccgccc agtaagccca tatgtgggca aaagttgact 660
ganacttgtg atttttaatt gaaatatcac aaaacttatt gcatttttt tttgagacgg 720
agtcttgctc tgtcgncccc agntgnnggg aaggggctnc ntnccccnn ctnngngnnn 780
ggnggnccnt 790

<210> 3979
<211> 462
<212> DNA
<213> Homo sapiens

<400> 3979
taacatcagc tcttgttctt tttgcaggat ccctcgattc gaattcggca cgagcctaga 60
cacctcgtat tggggaaagt cttaagtggt tggagcccat gacatttggg tatgatgact 120
agatttttg tacagctgag cctcaataaa ctcatgcgta cacttgtgag aactcaaatc 180
agaaatgggc acagaaactg gattacattt ctgtgctctg aaatcccaca gagttcataa 240
aaatacacat gtatacacaa aagcaacaaa tgtaagttac attttattat ggaaattgat 300
attagtgaaa ttgacagctt tctatggtta aagattatcc tgtaggtgag ccaaggttct 360
ctgtttttct gatttctctt attcattccc tataatttca gcattttcgt tctcattgac 420
ttaatattcc tgagggtatt attgtgaatg tctttgttta tg 462

<210> 3980
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(475)
<223> n = A,T,C or G

<400> 3980
acntngatca agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgaga 60
tctttaaaga aagcatccac agtttctgtg ccatttcatt gacaggtttt attttaaatg 120
gtagaccatc caacagaggg atagggagct gcagcggtgt gctgcttaga ctcaaaaaga 180
gaantctcgc tgactcatgc aggttgaggt tttgtctcat tcccaggaat gcttggactc 240
ccagaggcag tgaagccaca cattttagca gaattacctc agcagtgtgg tgcatgatca 300
tgaacttcaa gtttacctac aaggaagatt tcattgtcct tctgtcacta gccaaacact 360
tcacagccta nactcctgga ctacataaag gcccatacaa aagtgtttgt gtgcatttgt 420
gtatgtgtga gtgtgtgtgt ttgcagtggg agaggacact tatctttgct ctccc 475

<210> 3981
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(460)
<223> n = A,T,C or G

<400> 3981
ttcattactc ttgttctttt tgcaggatcc ctcgattcga attcggcacg aggcggagct 60
tgcagtgagc agagatcgca ccactgcact ccagcctggg tgacagagcg agactcctct 120
cgaaacaaac acaaaaaaaa gtttcaaaga cagaaagtgg aagttacaag gctttttaag 180
gccttatctt ggaagtcaca gcancattta ttttgcattc cattggtcaa actcaagtcc 240
taacaggcct aaggggggtca agtaaaaggt gggactcaca ggaagttcca tatacattac 300
agcttcactt gcagtacaga ggggaaggga aatcctactg ggacagaacc tcaagtagca 360
tacctggttg tatattgtgc ctggaagaaa agatggccag aagtatagat ctatagatgg 420
atggtgattg atggatggtt tgactggatg gtcagggatt 460

<210> 3982
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 3982
cttcgtttga ntcccgttcc aangcaggag cccatcgatt cgaattcggc acgagacttt 60
gcatttgctc gttttgttca acttttcctt ccttctctgc ctgccaaaga aactgtaata 120
actgtaataa ttnttatgac tttctcttca atgacagtna tcttccttta ccctaattcc 180
ttccctcctc atccttcaaa tccccttcct catcattcaa agnctaactc aagctagcct 240
ttcctcctta ttttcccctt atctttccaa tccgtatgga gatttctcac ctttcctgnt 300
ngaggttgcg ccagaatggc gaggattaaa ttgtaattgc tntntaatag actgntgtgt 360
cngcccacta gatttcaagc tctctaaagg tnaaagctnt ttctnacatc anaactngag 420
tcctttatgg annntnncac atcngaaggn cnnnanttat ttg 463

<210> 3983

<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(457)
<223> n = A,T,C or G

<400> 3983
tattcatcaa ctacttgttc tttttgcagg atccctcgat tcgaattcgg cacgagtcta 60
gctcagggtc tctcatgagg tttcagttat gatgttggct tgtactgtgt cgtctgaagc 120
ctggctggct gaagcatctg cttccaactc actcatgtgg ccatttccca gagcccagtc 180
cttactggct ttttgccagg gaggccttaa tttcttacat atgggcctct ccatagggca 240
gcatgcactt tgcagctggt ctnccttaca gtgaatgatc caagagagta tgagagagtg 300
tgccacaatg gaagccaggt atctgttata acctcatctt agaaatgata taacatcact 360
ctgccatatt ttgtcagttg cacagacccc tggtacagtg tgggangtga caacacagga 420
tattaatacc aggangcagg aatcattggg accgtct 457

<210> 3984
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 3984
ttccatttag ctacttgttc tttttgcagg atcccatcga ttcgctacga tgacccctc 60
ttcaggctgc catttggtag agggnnaggg agtggctagc catcgagtna gaccatgctt 120
tgcacccacc atcagcaagg ctcaagatag tgcctggcgt gctcagaata agccttccct 180
tctgcaggga tctcatctcc atctgtggga accaggtntg aggctctgaa cagntcctgc 240
tctggcaaga cacctccaca tctttctccc tcaaacattc atagcctctc tgccatttta 300
tgcttctggt acaccagaaa taatatcaca atgccctgca tcactgaccc ggctggataa 360
ttccttttca atatgtcctn cttgcangca naagatcttg ccanaagact gagaacccag 420
ncttccaaga tggccacagc tgcaccaaag atcacaangt aattg 465

<210> 3985
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 3985
attcatcagc tcttgttctt tttgcaggat cccatcgatt cgaattcggc ncgagattcc 60
agcatccatc acagataaca gacagcacta ttcatgaaat cccaacaana acacacgcca 120
agttcccata tacaggtgca nggcatgctt catttaccat tgaatttgat gacagtaccc 180
catggaaggt nactattaga gaccatgtga canagtttac ttctgatcan cgccacnagt 240
ccaanaagnc ttctcctgga actcaagact tgctggggat tcaaacanga atgatggcac 300
ccgaanacaa anttnctgac tggctagcac aaaacaaccc tcctcaaatg ctatgggaaa 360

gaacagaana tgattctaaa ngcattaaaa gtgatgttnc agtgtacttg aaaaggttga 420
aaggaaatna acatgatgat ggtacgcaaa gtgattcana gac 463

<210> 3986
<211> 464
<212> DNA
<213> Homo sapiens

<400> 3986
cgtcattcag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagatca 60
tctagaatcc cagcagtttc cttaagttgc ctactgtcaa ttttccattt ctctcgtcca 120
aattcacatg gagacatcat ttttacacac ttgtaatcaa ttgtaggcgg agtctggggg 180
tcctagcact tcccctaaca tcatctcatg atacttagac ttttaaagaa cccttgagta 240
ggccctgtga taaaggatgt tagtgaaaaa aataatgaga aacagggact tggcttagag 300
aaagaagcct gcgtcagatc agtaggcccc cctggggctg tggaagcatg cagaaggtcc 360
cttaggaagt gatgttggaa atggccttgg gccagccacg ttatttctct ggacctcagg 420
tcacccatct ctgaaatggg agcattgaac tggctgatcc ctga 464

<210> 3987
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(458)
<223> n = A,T,C or G

<400> 3987
nccttcntct cttgttcttt ttgcaggatc cctcgattcg aattcggcac gagggaaaac 60
ggaaaaaact caagagtgan aactaagtgg tgtgtgaaaa tgtcattgtg cctgggtggt 120
tgaagtcatt aaatcagaga gccaaaantn cctancagag tggancgaaa aangaccggn 180
cagacagtgn gaataatata tcactgatgt aaaancaact catatgatgc ttgtaaatgt 240
ggaaactata actntccctg gaggggtata nagatgagtt caattaggag ggaaactgag 300
tgacaggagg acaaaattgg aagggagatt tttactgtat aactttgtat cttttaaatt 360
ttgttccagg cgcatttatc atgtattcaa tgcatttaaa cagaagagga gaaggacggc 420
ccatangata taactattgg ttaaaaccat cttgtctn 458

<210> 3988
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(457)
<223> n = A,T,C or G

<400> 3988
gnaannnctt tncccnnnnn ttttgcagga tcccatcgat tcgaattcgg cacgaggcaa 60
tatgtagttt gccataaaan gaatgcatgt cttattcttt tccatagttc ttcattaatg 120
agacttgtag ccaagaatag aattggaaga tnccatctcc tggggtagtc aaaaaaaatc 180
tccttgggta atactggaan canctaattt tcctaatttg gttggtccct cttaataata 240
aaatnctatg ggaatnactc tttagtagtt ggcctggttg gaagctctgg gaggagcaaa 300
gcancctctc caggtgactg gctgactttc cacctgaagg agtattactg caagaattac 360
aaagcaggta ggactctggc ttttgatgag caaatggntg aaaagtgcct ccttcccagt 420

cttccttttg ccttcatttt agtttaaagc ttgaagt 457

<210> 3989
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 3989
aagnnacttn tttgaaaccc ccngntcttt ttgcaggatc ccatcgattc gggcacatct 60
tctactagct aacttggtcc ttttttttna aaaaataaaa cccttgcgta gttctccctc 120
aggggatgcc taggattttg gatgagaacg tattggctca atgtgagtgg ggcagtggca 180
ggcatccatt tcccttcccc ccattctgnc acaggtgccc atctgcctgg cagtanaatc 240
cantgctcat gttggtgact ccagagcccc ttccttgctg gtgcctgcct gangcattgg 300
tgtatgtggc gtcctgggaa ggggatttta gttnaatgaa tgatacgtac ctcttgcttt 360
cctgggntnt gcgagcttta atcccttgat ngtctgntgg gaggcttgan agacanactg 420
ggaactgtgt nagaaagcat gactcgtatn ncgattgnan ngaaatnanc t 471

<210> 3990
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

<400> 3990
tgnttngant cagctcttgt tctttttgca ggatcccatc cgattcggaa taagtgaatt 60
ggaagatagc tacacagaat gaagcataga agggaagaga tggaaataca cagagctaga 120
gggtaacaca ttgatgctac agacagaaca cctaacatac ttctggagtt ctgtaagatt 180
agaggagaga aaatagagca agagaaatgt tgcaaggatt tttccaaaag gtataaaatg 240
tatccctgaa tatattttta gtaatctcaa cttcaggcat gataactaaa accaaattaa 300
cataaaataa tacaggacgc aaaagaccaa tagaaaatct gaaaagtagc tagaggtaga 360
agatagagta tgttgaaaag aactgtattc taaatacaac ctgattttaa cagaaaacat 420
ggaagcagga attcaatgga ttaatgggaa tcatgtcttc aatgtg 466

<210> 3991
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 3991
ggngnntnnn ccctttgaan cccttaatac aagctacttg ttctttttgc aggatcccat 60
cgattcgaca gggtagtgca tgtgacggtg tccaagacgc acagcagatt ttcattcaca 120
aaaaaatctg accacaagag ctaaacggaa ataccttccg ctgtccttcc caagtcacag 180

agcaaacacc tcagttccca ggggtccgca tcagttctgg tggaggcggt gactgtgagc 240
gtgaccagct gggctaattc gtcctgacat ttagttggga cagctatagt ttcctacctc 300
tatgaccaga gagtgaagcg tttcactgaa gaactgtggc cggcgtctcc aggaaaggaa 360
ggagcctcgc tttctccagg gcaggggcag cgtggggcgg ggcaggccgg gtgtgtctgt 420
ggggagtggg cgcgtgctca cactctttaa gctgcgactg cttcctttag gacagaatga 480
agttcttcga ggaggccgat gaagacagaa tatggataag gccaaaccta cacaaaatcc 540
ttctacatct tcatatcaaa acatgttaaa cataaacctn caaataccta cagggataca 600
agcacagggc ttnctaaaca ggcgggatat gcaacctcgt tctatcccan gcccacacag 660
aaagtgttgg gggaatcact gaaggaagga ngagaaagaa ctcagaagaa ccataagaga 720
gcaagacatg gacaggaaac caatggccca cgccccgcan gaagacttaa aactncag 778

<210> 3992
<211> 905
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(905)
<223> n = A,T,C or G

<400> 3992
ttattccatc aagctcttgt tctttttgca ggatcccatc gattcgcctc catgttatta 60
gtaattctgt attccatttt gttaacgcct ggtagatgta acctgctagg aggctaactt 120
tatacttatt taaaagctct tattttgtgg tcattaaaat ggcaatttat gtgcagcact 180
ttattgcagc aggaagcagg tgtgggttgg ttgtaaagct ctttgctaat cttaaaaagt 240
aatgggtgat ttaaaaagaa aaaaggaaaa aaatctttgg ctgaatatgt tcattgcttg 300
tatttttaaa acaacagaat ttccagtatg aaacaggctg aaagagcagg aagaaatgtt 360
ctttgtataa taatgggaag tttggaatat aaaagtttat atattattta tctattggag 420
aactggtgta caggaggaac attttcttac tgtgttgctg ttttccatca tgtgttatcc 480
taagagttgg ggtttttaa aatctgtttc accaggggaa aataaaagca tccctaatgt 540
tcttcctcta aaaaacccan nnnaannnnn nnnnnnnnnn nnnnnnnnnn ncctcggaga 600
gagaaaanaa cctttctccg agccctntan aacctatagg ggagtccgtn ttaccgtaga 660
atccccnacn ttgaataaag aatnccattt gggttgaagt tttngggacc aaaaccccc 720
aaacntnnga aattgccnnn tggaaaaaaa aaatgccttt ttnttttggn ggnaaaaatt 780
ttgggggaaa ggccttttn ggcttttan ttttgngaaa nccccttttt ttaaagcctg 840
gccnaattaa aacccaaggt tttaacccaa nccaanccca atttggccnt tttccanttt 900
tttnt 905

<210> 3993
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 3993
gaanccctttt tgaaaanctt anatacaagc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgagatat tattttaatt ttatataata gcatgtactg ctttacacat 120
ttttataata agtcaccaca gtattacact ataactacgt tataagtgca atagatatgg 180
gtncaataaa taaaaatagt tgaggagaaa aaacctttag accattcatt ataacgtgcc 240
anactgataa ggggaaaacc ccccatgtca catgagagaa ataaaaccca ctgccatttc 300
tctgtgcctg ggtaactgag ttgattgtat tcaccagaag gttcttgttc tgccttttag 360

acctgcctgg gtcatttccc tgttcacacc ccagtgacta agctgaagag atttatcatg 420
atgcctgctc ttttctgttg gccttggtca cttccatgtg catgagcatc tccatccaaa 480
agtggccttc ttctctagcc ccgatgggat gtcagtngcc catgtttcta atagaagacc 540
catgccaaag ccactttgac aactctccac tcgcaagaat gctgtcggcc tntagctaaa 600
ctgttatggt ccactcaacg ctgtacactg tgtggccact ttccttccgc tttctgtcat 660
tgcagggang ttgtaaggca acacccangg ggcttgacct cttcaaggac tttgccagca 720
ncaaaaaccc aancttgggt acaccctggc ttaaaaaccc acancccccag caanttncna 780
gctttnaatg 790

<210> 3994
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(898)
<223> n = A,T,C or G

<400> 3994
tttaattnca atacagctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggacactt tcattgttgt gccagctggt tgaaattaaa actctgatat tactttttt 120
gaggattttt atttttgttt ttgcttaaac atatagtttg tctagaagtt taaaaagcta 180
aaagttaaaa atggtgtaat tatgaaaatc taacactcaa gatagtttct aaaaggaaat 240
cagtagttaa ggatacctga tttcaaaata tttaaagcat aacctaactg atggtaggat 300
gattgtatct tgaatatgtg gtagggccac atctattgta ggaaaacctt gcttttatca 360
tctgtgtgta aagggcttaa taaggagaag aggccttttg actgatttgt gagtataaat 420
gcatttgctg tttcatttca aaaatgttgt ggaggaaaag agtacattta acttgtataa 480
gagaatattt gtactcctgt ccaggctgca ggacctttct tcgagagctt tgcacacttg 540
acttgaacca cattttctga tccctttact ttgttttaga agcaccactg aaaaatctcg 600
ttgttttaaa gtncaatttg taaatatttc aaaaaanann aatnnnttnn nnnnnnctcg 660
gagcctctnn aacctttagt ggagtccgta tttaccgtag natcccnaaa ccatggatta 720
agaataccat ttgggttgga agttttnggg ccaaaacccn caaacctttg gaaatgccct 780
ngggaaaaaa aaaaaaggcc ttttaatttt tnggggggaaa aaattttggg ggaatggcct 840
attttggctt ttttaanttt tgggttaaac ccccttttnt ntaagggcct gngcnaan 898

<210> 3995
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 3995
gncnntttna taccatcanc tcttgttctt tttgcaggat ccctcgattc gaattcggca 60
cgagaatgga tgaatttttg tttgggttga agaatctctc tgagaagttg acacgtgggg 120
gcaatggttt gtttctcttg tatttctgaa gttgcaaata atcatgtaag cagttcaacc 180
aggagtttac accaaacttt taataggcga tatatcatta ttttttttcc cattggtttg 240
gataacatcc actttaactg gcagttagtc atacttagct atttttgtta aagcaggtga 300
tttattgtta ttttatattt atgacatgat taataagtga atatggaaga ttttacattg 360
acttagggga tcaaagtttt cattatatta acacctttaa ttgccatgag ttttctattt 420
ctagcatgca tattttgtgt tcattcaagt gaagaaaaca gtcttttgtg ttctcaggta 480
ctgcataagc cgaccacagt ataagacttc ttgtggcatc tcttcattaa tttcttgttg 540

gaatttctta tacagcacaa tgggagctgg aaaccttccc ctattaccca agaagaagct 600
ttacatattc tgggctttca acctccattt gaagatatta aggtttggtc ctttcacggg 660
gaatcaacac ttatgangnt ggtttaagac aaattaaatg acccctttcc atgtnaaaaa 720
ggatgctctt atggttctat attaaaccct cattggggaa gaataaaaac caccagggag 780
aaaacctgct tcanggggnc cctgtcnaaa gttaaccccg ngggtttgga aan 833

<210> 3996
<211> 838
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(838)
<223> n = A,T,C or G

<400> 3996
atncngtttt aattccatac aagctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gagaagcaga gggacaaggt gtcatccaag tgacctacct gcctcagcct 120
cccaaagtgc tgggactaca ggcatgagcc actgtgcccg gcctgttatt gttgtgttgt 180
cctgctttta tggtgcttct ttttctttat ttgtaatagt ttcccctccc actcccactg 240
ttttcttaac atggagaaac tttttttta attgttccca gtgaatgctg tctcttccca 300
tgttgactcc attcacttgc catgaattga cttagtgcca gacctctgtg ccttcttcat 360
gtaaccagct caccttagcc ttcttgtaga gggcttatga tcttagttgg attaagttaa 420
caagtttttg ttcagaaatt ggaaaatact agtcaccatt actttcatct gtacttgaaa 480
atttcgtctc tcagacatcc atcatctcta ggtgttggtg acaangcttg acatctttct 540
aacagttgac tttggcttct taaattcctt gaactaattg agagttttct taagcagagc 600
ttanaaggag tacttgcagc ccccaaaaca aangcaggtt tttaaaatta ttggnctata 660
agtctttggt tattccagct gtcacccaaa atggggattt tangcattta caatcggtaa 720
aagggcaaaa ccccaaatta ggggatggac aaaatccctc actggnggat gactctttaa 780
tgcttaccct caagactttn ttaagagtgn ggattatcaa ccagngactt cattggcn 838

<210> 3997
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 3997
tgaaaccttt tgaaaccttt nanacaagct acttgttctt tttgcaggga tcccatcgat 60
tcggtaaaaa ccctctgatg caaaaaaaag tattaacttt cacaagctgt ttgtactcaa 120
atacattttc tcagtttcag atcctctgct gttttattga gtggaaagtt gagctaaaac 180
ggttcaagaa gaataatgtt gcatttcctt atgtctcagg aaacactttt tatggtaact 240
tgtcagattg tctatgaaca aacccacttt tttagacatt gataaagtct tcttttcttc 300
acgtgatatt ttatacaaga gcacttcaga tgtattagat gtgactgatt ttaacaaatc 360
ctattagatt tgtatcaact agttacatgt tctattcaca gtcttttgtg aatcattgcc 420
tttttgtttg aaaagatggc ctcttttgag cctttgtttg gatacattcc tgtttttgtg 480
acaaaagaaa aactttaaaa ttgtcccaag cagaaaaata atggctatca gaagtatgtt 540
ttgtttcagt gtgagttact gttactgtat ttgtttattg taaacgtaga catttagcat 600
tcactgcagt tttcaataaa aagtaattaa aatttgttga gttctgaaat tcaagtacat 660
ctcactaatg taaaagttct ctacttgaga tgtttaaggc aagtgcgttg tcaattacca 720
atttccaact cttgttctac agggtctatc tgcctattca taccagactc aagaatg 777

<210> 3998
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 3998
tgaaccnttt aaaccntttt gaaatccntt nggcttctgc aggatcccat cgattcggct 60
atgtgctgac aaatgtggcc tactttacna ccattaatgc tgaggagctg ctgctttcaa 120
atgcagtggc agtgaccttt tctgagcggc tactgggaaa tttctcatta gcagttccga 180
tctttgttgc cctctcctgc tttggctcca tgaacggtgg tgtgtttgct gtctccaggt 240
tattctatgt tgcgtctcga gagggtcacc ttccagaaat cctctccatg attcatgtcc 300
gcaagcacac tcctctacca gctgttattg ttttgcaccc tttgacaatg ataatgctct 360
tctctggaga cctcgacagt cttttgaatt tcctcagttt tgccaggtgg ctttttattg 420
ggctggcagt tgctgggctg atttatcttc gatacaaatg cccagatatg catcgtcctt 480
tcaaggtgcc actgttcatc ccactttgtt ttccttcaca tgcctcttca tggttgccct 540
ttccctctat tcggacccat ttagtacang gattggcttc gtcatcactc tgactggagt 600
ccctgcgtat tatctcttta ttatatggga caagaaaccc angtggttta gaataatgtc 660
agagaaaata accccgaaca ttacaaataa tactggaagt tgtccagaag aagataatta 720
tgaactaatg gacttgagac ttggcaatct gccaagggga gacacaaaat an 772

<210> 3999
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

<400> 3999
tttaaacctt ttgaaaccct ttttaaaacc ctttaaacaa gctacttgtt ctttttgcag 60
gatcccatcg attcgaattc ggcacnagta acagtcctat attgtttcct gggcaagtta 120
aatagtccta attggccctg agttgttaga gaatgtttgt gaaccactca cacagacctt 180
gacagatagg tttttgtttt ttgctttttt gaagtacatg atatagacag gaacacagat 240
ttttaaatgg tagctgttac taagtgtggg agagagcttt gactctggca gtttgggatg 300
gcctttcaaa attgacaagt gtggttgtaa gggttagaga gtaagttggt gatgaatgat 360
acactactct ttggagaata aagagccagg tgtgagggta gagtgttcta ngattaggag 420
acttggatgt gtttgaaacc tgaggagtaa gaaattggtg gagagaaggg actctgagag 480
gatgccacag tattggctac agctttttca tcttccccaa ttatccagta aaagcagagc 540
tccctttaat attgggagca atattaatat gtttactctt atcacttgta tttatcattg 600
nattagangt cctaacaagt acaattaggc aagaaaaaga aatgtttcca gnttaacaag 660
aggaaataaa acttttgtgg tttgcaggtg gaaatgaaaa atcctaagga ctcttgtaga 720
aaaaactntn tttgaaaatt nccanaacag cccaataatn ttttgatngg gaaaanaaaa 780
acaanaatgg gttttattgg t 801

<210> 4000
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 4000
agnaancnnn ttnttannnn tttgaaanct tntaaacaag ctacttgttc tttttgcagg 60
acccatcgat tcgaattcgg cacgaggtct tcactctgcg acaacaagct tcttgaaggc 120
aaagaccata ttttaagtat cttttgtgtc ctagatgcac tgagtaaaan nccagggatg 180
ccgcagatca taaattngtg ntaatnttca aaaatagact ctaaaattta natttacana 240
aacattgnaa agatactgna nagttnctgc tatcctacac tgtttcccat attattaacg 300
ncttacatcc ctgtgatcat ttgtctgnat taataaacca gtattgatac attatcacag 360
agaccatact ttatnaggtt tccacaggnt ttttccttaa tgttctttca ctatcccagg 420
atcccatnca caataccaca ttacatttag taattatgtc tccttagctc ctcttggttg 480
tgacaatttc tcagactttc cctgtattta gtgaccttgg cagttttgaa cattactggt 540
caggttntgt ttgtttgttt ttttgagaca ggatctccct ctgtcaccaa gactggagtg 600
cagtggaacg atctcatctc actgcagcct caacactctg gggtcaagtg atcctntgac 660
ctcaatgtcc ggagaanctg ggcccagana tgtgtgccat catgctctct aaaaatacaa 720
aaaaataacc cggcgtgatg gtggggcctg tatcccagct actcnggagn tgaggga 777

<210> 4001
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4001
ttgaaacctt ttnnnnnccc ttttnaantt gtagaataca agctacttgt tctttttgca 60
ggatcccatc gattcgaatt cggcacgaga cactgttcta aaggtgttgt gtgaattttc 120
ttttttattt attaccacaa tctgtgaaca aatacaaata tctttccagt tagtgcattc 180
cctcaaattg aacttctggc tgcaaggaaa gctaggaatg attatggttt tgttagtaag 240
gaaaattatc aaaatgggat attaggttgg ctactagcag tcttggcctc atgctttcag 300
taaatagtgt gcacttcaga tcatgtggca ttggagaaag gaagaacatg ttaataatat 360
aacatgggtt aggtcatgga gtcttgatta ttgtttccta atggtactgt ttgacttcat 420
aggctacaag acaaatttct tcaagtgtaa atttttcgat tgaagaagac ataaagcctt 480
tgagaattta ctgtatactc agcactttgc ccgggtgtag gataaggatc aaaatcatga 540
aagcctaatt tctttcccca gagacttatg aatgtggctg aaaagaaaaa gtacaacaca 600
tgcaaaataa ttatgaaata atgatgtatg acaggaatgc agagaaggga gagatcagtg 660
tgcatgaatt aatgagaaaa acctcatgga gaaggagcag cataggttag atcttaagga 720
atgggaaata ttgcagcana tgaaaangac tgccagggta ggttataata tagtagngga 780
agaaaaa 787

<210> 4002
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 4002
aanccnnnnn nnnnncnttt gaantcatag aaacaagcta cttgttcttt ttgcaggatc 60
ccatcgattc gaattcggca cgagggcctt tttccttgtt ttcttcttag tgacagcatt 120
ttttggaact ggaaatatag cttctattaa cagctttgat cttgcctctg tctattgctt 180
tctgactgtg ttcagtcctt ttatgatggg agccctgatg atgtggaaga ttttaatccc 240
ctttgttctt gttatgtgtg cttttgaagc agttcagttg actactcagt tatcgtcaaa 300
aagccttttt ctcattgttc tcgtcatatc agacattatg gctttgcatt ttttcttctt 360
ggtcaaggat tatggcagct ggcttgatat tgggacaagc atcagccact atgtgattgt 420
catgtccatg accatctttt tggtgttcct caatggcctg gcccagctgc tcacaacgaa 480
gaaactcaga ctatgtggca aacccaaaag tcacttcatg tgaggttgct gaagcaccat 540
tcagcatctg gatcctgatt ctccttttaa gctaaaatct catcaaggct tcaataagaa 600
gatggatatg gatatatagt atattctact cctgtaagga aaatggtatt tggaattccg 660
aattgacagg ttatctggaa caaaggagct tctttttttt tctangtttt gcaggcatga 720
aatagtgatt atatctgtgg aaaagcatan gaaggcattc tccttttttca ttttttttcct 780

<210> 4003
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4003
tttgaaccct ttnaanccct tttgaaaatg naaanacaag ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgagttt agatggagct cataattata caaactcatc 120
tcgttcacaa atcccctaggg ctcaatgtta aagtcagcca ttgtttaagg cagaaattca 180
ggtttagata tagtgtagca aagattttcc attatatgag atatcgatcc tattaaacat 240
aaaacttttc tcttggcttt ctattttact gtcttttgtt gccatcagct gtatgcccct 300
taatttttttc tagtaatacc ttggaattta aaaatgaaat tacaaatgtt tatgttttag 360
tgtttttaaa aataattcga ttaagtatgc tatgatagag gagcaaagtt gttattagta 420
atatcaatgt gcttacaact tatggaaatg aaaaatagtc tttagtccta gcagcctttc 480
tgctgtagta aaatagtttg tgcactttaa atcgctgtga ggttacatct tcaaaggact 540
gagtggcata agccagggag gtcttagaaa tcttacaaaa ggaaaaaaat aagaaattat 600
tcctcatcat atgaaaatta tttactaaca atgtatgatg gtttaanctt cttttaaatt 660
cttcactttc cactcctttt tgcttctttc cttttagttg gactattacc ggagttacct 720
tacactaatg ttgangtatt tggggttcan aagaaaaata ggccaagtaa anggaaaatt 780
ggaaaatagt ttccaat 797

<210> 4004
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 4004
gnnnnnnngg nnnnnnnnnt ttnnnnnntt aatgaaccct ttgaancccn tntgaaaanc 60
cntngaaaca anctacttgt tctttttgca ggatcccatc gattcgcact gtggagtccc 120
tgcaagtcag caggaccagg gctgtcttcc tgcaccatct ggatttggtt agctctctct 180
gggcagtggg gccgagtctc atttcctcca acaataatgt tatataggca atgatcctgg 240

gctgccctaa cataattgaa aattatgtgt attgtaggct tggagtgctg aaatgtgggc 300
tcataaaaat atgtggtgca ggtagcctat ggagattgga tgtggcacac aatgaacttt 360
atgtaaagta agaactataa gtctccatgt taatattgta ttatgagtat gacagttctt 420
gggtgggtcc tcagggcagg tctgtcacct tcaacaaagc ccgagtttcc taattctaca 480
gagctggtat ttggatgtaa tcaaatcggt tttgcaggtg gccaaagatg aaaacttgtc 540
caccaatcca gctctcccca ctgagggata gcatgggatg tagatgggtt tgactccatt 600
tggcattttt gttcacggnt ttttatgaga tggagaggtg agtgttggtg ggtgtccatt 660
ttggttggcc tcaaggaaat gactctattg agtggttttg accaatgcac tcatatagtt 720
atgtggtaag tgaaggatgg gggtcctgta cacaaccacc cactagttct nttctccacc 780
aaaaaggaat aaaagttttg ctttcattct caaaaa 816

<210> 4005
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4005
ttnnnnccnt tnnnnnnnnt ttgaatttct ttantacaag ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgaggct ggaggctgtc agaaggatgc tgggggtgaa 120
gacaccctgg ggtcctgaca accattggga gtgtctggtg ctcctgggtg agagagaggg 180
ccagttggaa aagcctgcag gcccagccct ggggcagaac tgagtgtggc gggtgctggg 240
cacaggatat tcccccaggg gcttagcttc atgcattcag gcttaccttg aggctccaag 300
cttattggtg gcataagctc tgcagatccc tcacctgcca tcagcctcat ctgaatcttt 360
gtctttcctc agataagccc ttaggcacca gcttagacac ctccaagaac caggccccgc 420
tgatgcaaga tggcagatct gatacccatt agagccccga gaattcctct tctggatccc 480
agtttgcagc aaaccccaca ccccagctca cacagcaaaa acaatggaca ggcccagagg 540
gtgaagcaaa cagtgtccct tctggctgtg ttggagcctc cccagtaacc acctatttat 600
tttacctctt tcccaaacct ggagcattta tgcctangct tgtcaagaat ctgttcagtc 660
cctctccttc tcaataaaag catcttcaag cttaaaaaaa aaaaaaaaaa aaactcgagc 720
ctntaaaact atagtgagtc gtattacgta gatccaacat gataanaaca ttgatgaatt 780
tggaca 786

<210> 4006
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4006
attccatcag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagggga 60
attcgaccaa catggagaaa ccccgtctct actgaaaata caaaatagcc gggcgtggtg 120
gcatgaacta ccacactcgg cagcatattt taaaatgcag ttatttctga aagtttttgg 180
ttttacacaa ttttttttt aggtaataag atgtattgta aggattatgc ttacgtatgg 240
tacagagtat acttcacatt gttcctgtct tttttgtggg ggagggaatg accgaaagca 300
ttgggaatgt taaaggcaaa tgagtaaaaa gaaaactaaa aaacgattac ttcttcaaat 360
aatgaggaaa gcgtttttaa aatttttgtc tgtttttaaa aagcaagttt catgttagat 420
ttcttaccac actcaattat ttcctaatat aaaatagata taaaatttgt gatttgttac 480

tttttatgta agcatatata gtccagtcta aaatgaccaa cttccaaatg tgttccagaa 540
aagaatcatg acattttata gctgaaaagg acctaaaaat ccagtccttt taatataaca 600
tatggtaact gactccttgg gagtataaaa ttaattattt aagaaccagg taagatagta 660
gccagagcct agaaccaatn actcagatgc cccttatcca ttctaatatt ccacagcatt 720
ttctagaaac ctcacttaan gcanttaatg tggatagggt tttacctcna aaatagtcaa 780
ncccccaaat gtagccaaat acctaaggng gccttttttg nttcn 825

<210> 4007
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4007
ttagnnnnng tttaanccct tttgaanttt ttanaanaca agctacttgt tctttttgca 60
ggatcccatc gattcgaatt cggcacgagg gcagctggtg agtggctctc tgcgcacagt 120
gttcgggact accccgctcc ccatggcctg cccagcgctg agtgagagcc agcccaagtt 180
cggccacttc ctcgagttca tggatgagtt ctgccaggag cccacagcca gtgactcaca 240
aggctagagc tgtgcatggg ggctgtgtgc accacccggc ctgtgcccca nctctccccg 300
agggctctgt gccctggacc gcacctcaag gttgaccagc cggccacagg cctcagagct 360
cagctgggcc ccacttgctg gccacaaggt ggcatcccct tgtcaggatc tcccctcctt 420
ggcccaggca tgacctggtg cctggcccag cggcaataaa gagtgggtgc acagggcaat 480
agactgggtg ccacatgcat tctttcttgg aacccancca cagcaacatt gtcacacttc 540
cctctaaaaa tggttttcca gntcagatgc aacagggata catttgttct ctgttgtatg 600
agaaactgac accaagggga tcttaacaaa ttcctgaaca atggcttcaa aaaaggatat 660
ttttaaaaac cagatcttgt gagtacaagc cctaatgtgc anggacaggg tcatcctgta 720
tattcgttct ttactcaaac tctttcttgg ttccttcatt angaagcatg aatggttgaa 780
tgtgaac 787

<210> 4008
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = A,T,C or G

<400> 4008
tattcnatnc agctcttgtt ctttttgcag gatccctcga ttcgaattcg gcacgagagt 60
acgagagcaa agaatgccca gagatgacac tagtgatttc ttgaaaaact cattattgga 120
atctgatagt ggcttttatt ggggcttacg gtgagacata tcctgccatt gaagatgacg 180
tcctccctcc accatcacag ttgccctctg cacgggagcg caggangaac aaatggaaag 240
gactagacat tgatagcagt cgtnctaatg tagcaccaga tggtctctct ctaaaatcta 300
tatccagtgt aaatgttgat gagcttagag tgagaaaatg aggaacgaat gcgaagactg 360
aatgaatntc acaataaacc tattaataca gatgatgaga gttcactggt tgaccctgat 420
gacatcatga aacacatagg ggatgacgga tcaaactctg tagc 464

<210> 4009
<211> 766
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 4009
tttgaaacct ttgatacaag ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagatg cctagtggtc tctgagtgta ggattcttga acctgctgat ttgcatttca 120
cctgtagttc tacagtaaaa aatgatttta tataactttt ggtatataag tctcaaaaag 180
tgtgagtcag aagagatgaa acattatatt taaaatttca tatcaaagct tctaatacaa 240
cgttgctaga gccatggctt ggaaataaat caggaaaaaa ccctcaaata cagaatcagt 300
tgtgttaatg cactagaact tgccttctgc tttaaagcca taattaatca tttaaatgct 360
ggataaaaac catgtgtttt gtctttagaa aaggtgttga gtggacttca aggtttagat 420
ctgtgctgtc ccatacagca gccactagtc actagcgggc ctggctattg agcacgtaat 480
atgtggctat tgagatgtgc tctaattatc aaatacacac caggattcaa agacctanta 540
caaaaaaaga atataaaata tctcaaaaat attattgtat tgattacatt ttaaatgata 600
atggttggga catattgggt taataaaaca catctctnaa taaacttttt aaaaaaaact 660
tttcaaaatg catctatgaa aacatttgaa antatatatt atggcttctg cttacgactt 720
ggatcatgtt tatgttgggc cacatagttt aaatcnttta tatctn 766

<210> 4010
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4010
ttgaancnnt ttannccctt ttgaaanctt tatacaagct acttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagaagac acttcctctc cggaaagcca gtcatattca 120
tcccagcgtc tttcttggtg tctgtgcatg gataaagcct ccccattccc ccgtgccccc 180
caccactttg tgtcctttca ctttgcttca cttatgtgcc caccactcca gggctccctg 240
aggtccagga attccatgcc attccctttc acatggctga gagccccagc cctgtggatg 300
agctgtcctg agtgggcact cagtaatgtg ggcgtaactg aaccaagctg aagagggaag 360
gagcaaaaaa caaccagaag ccctcagatt cagagtcatg tcgttaaaca ctttttaaaa 420
taaaaaatta gctgtgcaaa ctgaaatcaa tttaaactat tttctttgac taggcaggaa 480
agaggaggct gctacatatt aagaactccc acttaagcca aaccttcatg tttccaatct 540
ccaagcaggc attgagggcc tctgggctgc gtgtgggaga gccaggaaga aagaagagta 600
ggccctgcct ttaaggtcct tcctgcctaa agcaatctat aggcagctgt gttctaacaa 660
aaacttttat ttataaaaca ngcagccagc cagcctgcct atgggcagta gtttgccaac 720
ctgtgctgta aattaaaaga agcttaagag atctgtcaga tagtgataat gtatgcacat 780
tatt 784

<210> 4011
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)

<223> n = A,T,C or G

<400> 4011
tttnannnnt ttannncnnt ttgaaanctt tatacaagct acttgttctt tttgcaggat 60
cccatcgatt cgctcagcca ccgtctcctt acctgactcc tctgggaaag agtttcccta 120
ggttaagcca tacagggata gggtaggaga tgccatttgg atctaggagc agagggcaga 180
gcctcagcag gaagagtgtc tctttgagaa ggagacacag tggagcaggt gtgtaggttc 240
acagggccag ctatgggtag agtcgggtgt acatttttag aagccacaat tcccaaaaat 300
ctcctgacta taacatcagt gcacagagcc agtcaaatgg aggaggagtg ggtccaggca 360
attcaggaag aaggaaagta acaaatgagt ggttgcagga ggacactttt tctgtcgagg 420
tcactaaaca aaacattgtc tcctcccctt aacttcagaa acaatggagg gtaaaagtgt 480
cgcctgggcc ctgggggcaa agacggtaga taacttctct gtcgtgttct ccagaagggc 540
ccaacaatta caaggttcta cggttctaaa ttccaatcta gtcttccaca tcattttgaa 600
ggtataatat tacttgtcaa agtgggatga tagaagatat gtgtggacat aaattgttgt 660
caaggaaaaa aacttaaata agaaaataag agaaaaaatn tntgtatgta cagtggttac 720
tagaaatatg ccttttaaat atttggcatg tggattgtgg cctcatcntc actcagtgng 780
a 781

<210> 4012
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4012
tganccnttt gaanccnttt tgaatntcnt tacanttgct acttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagattca aagtacattt gacaacccac tgcaagttgt 120
ggcatacatg ggtgccatga accatgacac caactacagc tttcaggttc aatgtggctt 180
aattgtgggt ggcctacaaa gatggatcac ctgcccaccc acatttcatg gatgcagagc 240
tctgttccca gtactggacc aagtggcttc ttcgactaga agaatatacg gaaaagaaaa 300
agaaccagaa tattcagaaa ccagaatatt cagaataggg agcaagttgc tatttgggaa 360
cattcagcac cttctcacag tttgggaaca tatattgctg tttactccag tgtaaaaatg 420
aggtgccact ggatctgagt gctacacgaa cacaagtaga agtattaatt tgttgaaatg 480
tgttgttacc aaaaagactg aaaagcccca aagtctagat ataaagacct agacttcggc 540
acgcgaaatc ccactatgct acctcttatt tacctgaaag gaggacacgc aggatgggca 600
gtcatgctgg tgactcttgt actcccttga gggacattgg tgggggggag gcgtggtccc 660
angcaggatg cccantcttt gactganatt ggaangcant gangnttgag ggtgccaaaa 720
attncccang gttcacccag angggganggg gctacatgcc ccanctgtgt gcangggagg 780
acacn 785

<210> 4013
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4013
acctttaaac ancttntgaa ntncttgcac gatcccatcg attctanttc nntncgcagg 60

cagccnccan cncganttng gcacnagctc nanagctgct gcttttcccn tgccnganaa 120
cnttnanttt agtcctggat tctgtcacan aacatntnan ctgccnttnt ccctnnggag 180
aattganntg gnaacctact tnagnggcat gaaaaaacct agacntctcn gaannganaa 240
ccaatnngcc cttattgaga ntactgatng atngtannac canagggaca cccgngnatc 300
aatacatacn ggctgntctt gcctntttca agggtggtcc aaacgnccat nctanggntc 360
ggatcantat gggtntgccc aagcgatcag aacncgagcc atttgcttag ctgcgggaat 420
gaacanggnt cttgganacn ggcatctata tacacccccт ttcnttttnc cccttgatng 480
gaagcttctc tganatgaca ctctcaaaga tgngttctgn agtgacttat tgccaaagca 540
ccacttnncc tngttgagtt taaganganc acatttgggc taaggggcct ntgnttngat 600
gtaaagtgat ctcctngngg tctacatttt tcntaaataa tnccttatga tccaccatga 660
gtntgaatac tttgcttggg acatangctg ccnatcattg cctggaagct gccacaagta 720
cngnagtccc tggggcaaat agcttcaaat tttttgnact ctcaagccca tgtcacatan 780
tt 782

<210> 4014
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4014
gnaacctaga aacaagctat ttgacttcnt gancnttcna acaagctact tgttcttttt 60
gcaggatccc atcgattcga attcggcacg agcagagatc tgcaaattac agcccacatg 120
ccagctgctt gtttttgtaa ataatgtttt accggaatcc accactccca cttgtttaca 180
tatcatccct ggctgctttt atgctacant gaagtgggag gggttgagta gttgaaacaa 240
agaccttatt gcttgcaaag tctgaaataa acacactcac acacactgat ttatgtatag 300
aatatgtata caaatatatc ttttatttat ctatttttтt gagattgagt ctcgcttgtt 360
gctctgncgc ccaagttgga gtgcggaggc aagatcttgg ctcactgcaa cctctgcctc 420
ccaggttcaa gtgattctct tgtctcaacc tcccaagtag ctgggattac aggcacatgc 480
cgccatgccc agctaatntt tgnattttta gtagagatga ggttttgcca tgttggccag 540
gctggtctca aactcctgac ttttagtgat ccgcctgcct ctgcattcca aagtgatggg 600
attatangcg tgagccactg tgcccggcct acaaatatat nttttacagc acatntcaat 660
tnctattaac tgcattttca aatgttcagn aggcacccac tgggctttgt atcgggntgt 720
actgggccca cacaaatcta aaatngctgn atccttggna cctcctacct cctggtacct 780
tatnagaata agcn 794

<210> 4015
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4015
tttgaaanct ttatacagct acttgctttt tgaagacctt ncanacaagc tacttgttct 60
ttttgcagga tcccatcgat tcgaattcgg cacgagagaa gatgaccgag agactcttgt 120
cagccaatgc agggacacac tctgtgttac caagaactgg ctgtctgcag atactaaaga 180
agagcgggat ctctggatgc aaaaactcaa tcaagttctt gttgatattc gcctctggca 240
acctgatgct tgctacaaac ctattggaaa gccttaaacc gggaaatttc catgctatct 300

agaggttttt gatgtcatct taagaaacac acttaagagc atcagattta ctgattgcat 360
tttatgcttt aagtacgaaa gggtttgtgc caatattcac tacntattat gcagtattta 420
tatcttttgt atgtaaaact ttaactgatt tctgtcattc atcaatgagt agaagtaaat 480
acattatagn tgattttgct aaatcttaat ttaaaagcct cattttccta gaaatctaat 540
tattcagtta ttcatgacaa tatttttta aaagtaagaa attctgagtt gtcttcttgg 600
agctgtaggt cttgaagcag caacgtcttt caggggttgg agacagaacc cattctccaa 660
tctcagtagt tttttcgaaa ggctgtgatc atttattgat ccgtgatatg acttggtact 720
agggtactga aaaaaatgtc taagcctttc agaaacattt ttagtaatga ggatgagaac 780
ttttc 786

<210> 4016
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4016
ttttgaaccn ttanacancc tcttgnnttg aaaacctaga nacaagctac ttgttctttt 60
tgcagggatc ccatcgattc gaattcggca cgagaggacc tccagttaaa tttgaatttc 120
agatgcctat gaatagtttt cagtataagt atgtcccatg caatacttgg gatacgattg 180
tgctgaagtg gttttcattg tttgtctgaa cttcaaattt aactggacat cctgtatttt 240
tatttgctgt cttgcaactt ggttctgaga gagagacccg agttcttccc attcacactg 300
tgtgttgggc agggcatttg ggccacttga tgttggctag gtaggttctc atcttgagaa 360
accaaatttc tgattcccag ctctgtgccg gtactgtgcc tttttccact caagatctta 420
aaactttgcc taggaagaga agggtcggga aatggtggga tggggacttg agtgttaatt 480
tctgagtctt cttcctgggg tggattgctt ctgtgccatg gtctttgttt cccgttgtag 540
gtgctgaccc catatgctgt ctcgactgca atgacaaagt atctaaatac aaatgtgata 600
accaagactg ctgatgagtt tgcaaaaagt cattgaatta tgtcacaatt ggaggtgaaa 660
cctgtggctg ccttgcccat gaaatcttgg cgggctttct gancctgatc ccngcctggg 720
ccttctacag cggtgccttt caaaagctgn tcctgaccac tatgtggcat acctgaactc 780
ant 783

<210> 4017
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4017
ttgaaccntn nnnnctttg aatttgaaac cttnaaacag ctacttgttc tttttgcagg 60
atcccatcga ttcgaattcg gcacgagggt aacttctctg anagngttcc ttgtaaggct 120
cttatgaaca gtcgccatat atatatagtt gatgggcngg gaagatctgg gangtnagca 180
nnaagagcct ttagttccgc cncatagaac aaantagagg tcacaggttc natgccctga 240
gatatggaat tgaaatntta gacttcaggg tcatagactc ttggaaggaa nactagagta 300
cattcntgac cctcnccctt aattncttna caggngngaa aaccangagc tncngaaaat 360
nngttattcc tcanctccag ggctacctnc gatctgtgtt tgctctgacg aatggaattt 420
atcctcacan attggtgttc tnnntgtctt accacctaat tanntnnctg ctaccaaaaa 480
aaaaaaaaaa aaactcgagc ctttanaact atagngagtc ggattacnnc natccngnca 540

tgatangatn cattgntgag nttggacaaa ccnnanctag aatgcancga aaaaaatgct 600
ntatttgcga aatntgggat gctnttgctt tatttgtaac cattataagc tgcaataaan 660
aagttanaca acaacaattg cnttcatttt atgtttcaag ttcaggggga ggngngggag 720
gttttttaat ttngcggncg nggcgccnaa tgcattgggn cccggaccca nctttttgttt 780
ncttta 786

<210> 4018
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4018
nnttactata naatacaagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggcga gctgaagtac acaaagtttc aaggccngaa aatgagcact canaaatgat 120
aacaagagac aagtagctcc aggtgctcct tcagctccaa ggagagggcg tgggggtcat 180
cggggtggca ggggaagatt tggtattcgg cgagatgggc caatgaaatt tgataaagac 240
tttgactttg aaagtgcaaa tgcacaattc aacaaggaag anattgacag agagtttcat 300
aataaactta aattaaaaga agataaactt gagaaacagg agaagcctgt aaatggtgaa 360
gataaaggag actcaggagt tgatacccaa aacagtgaag gaaatgccga tgaagaagat 420
ccacttggac ctaattgcta ttatgacaaa actaaatcct tctttgataa tatttcttgt 480
gatgacaata gagaacggag accaacctgg gctgaagaaa gaagattaaa tgctgaaaca 540
tttggaatcc cacttcgtcc aaaccgtggc cgtgggggat acagangcag aggangtctt 600
ggtttccntg gtggcanaag gccttggtgg tggcaaangt ggtccttcct tgccctcgan 660
gatttccncg ntggattcaa aagaagtcgt gggggcccgg agtttgcgga ttttgaatnt 720
aggaaagaca acanaagttg tgcntagtct acaaacaag 759

<210> 4019
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4019
gaatccnnta cnatananac aagctacttg ttctttttgc aggatcccat cgattcgctc 60
ggacataaat tatttcattc acaccatctt nccttcccac acacacaccc tggagcaaac 120
actggcaccg cntctaacaa ctcaaggctg tgtcccgagg atgactgctc cagctntctt 180
acgttctgcc tganagcctg ccaagagaat caactgtttg atagggccca tctacangct 240
ttgtganaga gtngggggcct aattttgtta anctccannt tgtaaagcca nanagcctaa 300
tcgcgtngac anccnccttc ctgcttttca aanattatct gcttncctga atactgccta 360
tgcctccctn ctcctccctt attctcccta ctgcagnagt gantatggat gaaattatgt 420
ncttcctgta ttaactcagg tcancttggn ttgnntttgg caccgggnac aagtgctgtt 480
gggtctgctt gnaccactat tccccaantg ccactggtag cacanatcaa caaatccttt 540
nctctnagct catntgttga gaaattatca ggagccatgg gaagaaatta ctattttnat 600
catgntagaa atatatttca nngtgtnttg aagagtgtna ananttgaaa ntgggaaaag 660
gatttnangc tgcacttggg angcaanatg atgaacctta ctatggcact nnggactnaa 720
agtangatga gccccantac tgacccccag gccngnt 757

<210> 4020
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4020
gaattcctta cnatananac aagctacttg ttctttttgc aggatcccat cgattcgaat 60
cggcacgaga ctggcattct gctgttctca ggagctccgc tttgatggat ggctgggcag 120
cctgtgctgc atggaccacc agtggttgtt gaggtggtga antgtgtccc cgctaactcc 180
actctgggca gtnaactgaa nagggagcaa agcccatgaa atgggccttt gtggcagtgg 240
tggaggtaga gtgacccaca acaaacctcc ccacttgtnc ctnnccattc agnngntcca 300
gaggcagtga gcttggaatc ttaacangag agatcttggg gtggggtgtg gactttccac 360
aaaggcatta cctacatgca cgttccctta cacatgtagc cttccaatct catacntaan 420
ancacttatt taagtnaaat atgcctattt caacagcaag aactntggnn tggggagtaa 480
agatnttntt anttnactat ttagtattaa ctgagtaaac atttaaaaag gactggatgg 540
gggtgggcac atggggctgg ggtgcatttg ctntngctct acatttatga aagaccncaa 600
atncattatg tgacattttn tgnaaacaag ggtatatata ctacancaga tacacaggng 660
ctagaanaaa agtncatcat aaaacttcac actnggggtt gtattacaaa accacatagc 720
ttcatnngga nttatgatgt cnggaaaaat tattananct tgtnt 765

<210> 4021
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 4021
ttnannncctt ttnaannccn ttttnanttc cttactatan aatacaagct acttgttctt 60
tttgcaggat cccatcgatt cgaattttgc catcttttat caggctttct gtgtcgagga 120
cgctacccac atagagtaga agctaaaggg aagggatgtg aagtgacctc accctcagct 180
tctanctcat ggtgtcaagg cttgtgtgat cttagacacn tctgcctctt ctgagcctgt 240
ttcttcatct gtnaaacang gatgggaggt tgtggtnaan attccacagc aacactgcac 300
acgcatnaan tacctnggcc agggatgact cggcngacct cattttccct ctgcctcctg 360
cctanagctg ttagcaagca tccatcatgc ggntcacaca agagctcccc cnggaggtta 420
cagaaatgaa ggcngcagcc ccagtncttg ggtagcctgt ttccccttga aggaaacaga 480
ctcaatatca gcaacacaga gtgaatgacg ccagggtggc naacnggcct ttcctgnagc 540
aaatgcggga ggcttcatgg agatgacgtg ttatgaacan cactcatctt acgctgggag 600
cagcacatgc ccccggcang gagccagtcc ctgtcttcaa atacagtcac actgngggtt 660
naacaatgtg taaatttggg ggcgatacaa acattcagtc cataacaccc ctatacccna 720
acccttaggc aancactaat ntacatntta tctttacaga tgacctattc tggacatgtc 780
atatnaatgg 790

<210> 4022
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 4022
gagnnnnttg nancccttnt gaaatctttt aacacaagct acttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagggtgt gcggctgtaa tttgagctat tcgggaggct 120
gaggcaggag aatcacttga acccaggaga cgaaggttgc agtgacccga gatcgtacca 180
ctgcactcca tcctgagtga cagagcgaaa ctccatcttg ggggaggaaa aaaaagaaag 240
taatagggag gcaaatcaga atttgtgtgg gagtaccccc tagttctggc tcttgttagt 300
atactcaacc tgtcaggcta ttctgagagc gaaagctcct gctttgggct agtttccatt 360
cagaatggtt tttgataggt atgaactagt ctaagcacaa gtatacttct gtgtaagtag 420
catagctcct ctacttggct tcatagcatt ggacattaat agagaaaatg aaaaaggagg 480
gtatggtacc tgccttgaat agcatttgat ttttaatcct acatttatca gagccccagt 540
ttttaaaatg tttaatagcc agatgtgctg tttgccaggc ttanaagttg gtacttctgt 600
gaatgaaaan gtgtgactga gtcacataaa ctggtattca gctagcccag tcatcagttt 660
attccatatt caagggaaaa ccaaggctgn ttttcctctt tatactttga agatgatggc 720
atttaaaatc aagtaattgg ggctgggtgt ggtggnccac atgtgaaatc ctaatgcttt 780
g 781

<210> 4023
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4023
gnttatanat acagctactt gttctttttg caggatccca tcgattcgcc cctttgcctt 60
ccaccatgat tataagtttc ctgaggcctc ctgggacatg cggaattgtg actcaattaa 120
acctgttttc tttataaatt acccagtccc cagcagttct ttatagaagt gtgaaaacag 180
actaatacaa tcctgaagca tttcatcaaa gaattgtaac aggagatgaa acatggcttc 240
accagtatga tcctgaagaa aaagcacaat caaagcagtg gctatcaaga ggaggaagtc 300
aaagcaaagc agaccagtca agagcaaagg taatggcaac agtttttta ggatactcaa 360
ggtattttcc ttgttgactt tgtggaggac caaagaatga taacattaat ttgcctattg 420
agagtgtttt gggaaagtta gccaaagctt tagcagaaaa acacctgaga aagcttcacc 480
agacagttct tctccaccgt gacaatgctt ttgctcatgt ctctcatcat caagaacaat 540
tttgttagag tttcaatggg aaatctttag gcatccacct gatctggctc cttctgactt 600
ctttttggtt cttaatctta agaaatctgt caangggccc ccagttttct ttaagttaat 660
aatgtaaaaa nggctgnatt ggatgtgggn taaagtcttc cangaacctt aagttctttt 720
anggnggtcc tnaaanggct ggggggcatt tttttaccna aaggggncnt tggaaattg 779

<210> 4024
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4024
taatcncttg gtttctaatn cntgggnctc gnactttctn cannanccnn tgcgntgcga 60
attcggcacg agcccagccc tagatactgg cactactgag gaggatcgtt taaaaattga 120
tgtaattgac tggttggtat ttgacccagc gcagagggca gaagcactga aacaaggcaa 180
tgcaattatg agaaaattct tggcatcaaa aaagcacgaa gctgcaaaag aagtatttgt 240
gaaaattcct caggattcta tagcagaaat ctataatcag tgcgaggaac aaggaatgga 300
aagtccactt cctgctgaag atgataatgc tatccgagaa catttgtgca tcagagctta 360
tttggaagcc catgaaacct ttaatgagtg gtttaagcat atgaattcag ttccacaaaa 420
acctgctttg atacctcaac caacttttac tganaaagtg gctcatgaac acaaagaaaa 480
gaaatatgaa atggattttg gtatttggaa agggcatttg gatgccctaa ctgctgatgt 540
gaaggagaaa atgtataacg tcttgttgtt tgttgatgga gggtggatgg tggatgttag 600
agaggatgcc aaagaagacc atgaaagacc catcaaatgg gtcttactga gaaagctttt 660
gtctgccaat gttgtgtttc ctgcttcatc gatattgcac agtacttgtc aantttcaag 720
gaatgccctt canttagcag aatatnggna ttcctttgag cgcccacaaa cttg 774

<210> 4025
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 4025
gnttatatat cagctcttgt tctttttgca ggatccctcg attcgaattc ggcacgagct 60
catcacactg ttgtatactt cgtagctatt acttctttaa tccccaagga cttgtttaac 120
aaagtgttct tcagtttcta cttcctagtt cctttgtgga actggtaaaa atttaaaata 180
tcttaacata tatttttatt tcaaatgata aacagtaagg taaaatgtgg tttttcttgg 240
acaacttatg gtagaatgat gtctagaata tttagttatg tcatttaata ctttttttct 300
ttacaattta aaaaaaaatt tattttattt tagattcagg gggtacacgt gcaggtttgt 360
tacatggcta gattatgtaa tgccgaggtt tggcctgcta gcgcagccat catccaaagt 420
gaccctagta cccaataggt agttttcaac ctgtgtgcct cctcttctac cttctctttt 480
ggaatctcta gtctattact tccatcttta tgttcacatg tactcattgg ttagctncca 540
cttacaaatg agaccatgtg gtatttgatt tctggttctg agttacttct tttaggatag 600
aggatgaaaa agagtgtacc tccacttcat ccatgtgctg cnaagacatg attcattctt 660
ttatggtgga tattttacct ttttgcnagg gganagatta aattggccan ntatgaaaaa 720
tgctgnatcc ctat 734

<210> 4026
<211> 837
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(837)
<223> n = A,T,C or G

<400> 4026
aagtttaaac ctgctctngt ctttgcggat ccctcgattc gaattcggca cgaggggctt 60
gggggtggga ccctgggatg gggggagaag cagctgtttc tggagagaga aggggtcatg 120
gtggccccag actgtagaga tttttatgtg tttggataca tctgctgtgt ggaaaaaaaa 180
aaactacaaa aaccctaatt ttgtacatac tgtattttta ctattgaact gtattctagt 240
ggctgttcat gctccaagac tttagttacc gagacatgaa tactatccat gtaataagca 300

cttgcctgga ataaaatata aaactgaaat aaacctgcac tgaaacctga aaaaaaaaaa 360
acaaaaannn anaanncnta aaananccca aaaanaanta aaaaaaaaan ccnnggccct 420
ttaaannttt ngggngccgt ttancttaan cccnnnnttn ntannacctt nnttnatttg 480
ggnnaacccn cantttaatt nccggnaaaa aatgnnttnn ttggnnaant tgggaancct 540
ttngctttnt tngaaccntt tttaagntgc nataananag ttaccnncna nnttgncttn 600
nnttttaagg tttcaagggt ncaaggggga aaggttttgg naagggtttt tttaaattnn 660
cnggggcccc cnngggnncc ccaattnncn ttttgggccc ccgggnnccc ccaagntttt 720
tnnnntcccc cttttnangn naaagggggt ttnaatttgn nccccccntt tgggcnnnna 780
aaannnngng gggnnnnntn aanccntnnt nnnccccctng nnnnnnaaaa aaattnc 837

<210> 4027
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4027
ggnnnnnnnn gnntntaata nncagctact ngttcttttt gcaggatccc tcgattcgct 60
gccatgtcta gtgggctctt ctgggctccg tcctgagttt gtcacacctc ctagggccca 120
gaggagatga tgtggtattt ctatcactaa aaggagttca agaccagctt gagtaacatg 180
gtgaaaccct gtctccacta aaaatacaaa atttagccag gcatgatggc gcatgcctgt 240
aatcccagct actcgggagg ccgaggcagg agaatcattt caacccagga ggtggaggtt 300
gcagtgaccc gagatcgcgc tactgcactc cggcctgcgt gacagagcaa gactccgtct 360
caaaaaaaaa aaaacaaaac aggaaaagtc ttagagaaac cttgtgttta ttcagaataa 420
aatgaaatag ttaaaatgtt ttagtgcctt ttattttcaa attacatagt cagtatcttc 480
tctcatactg attcttgttt gtatctttac ccaaaatagg agtacacctt tgtcatttaa 540
ttaattgttt gatataatct tncaaaatat ggtatctggc anaggggggt gngagagagg 600
aagaatagca caaggctttt gtttgggtgc ctgcttgctg gttggatttt gagatccaaa 660
tcaactattt ttggatgaaa tcgtagctaa tttttcctgn aacctntttt ttttttnggt 720
ctctgngccc attggntgct tgggatcagg aaaatgccct atanttttng gctattttgg 780
catttaa 787

<210> 4028
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 4028
agnnttttatn atcagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggttttctcc tgttacatca tgctgaatcc tttcccttag ccattagctt ttatgatgtg 120
gtcttcgtag gaaagccacc ctggtgccaa gcctagcttg tggggagggg tatgtgttcc 180
agaaactgct ctttgtgttc ccttcaatga ggaaacaaca tgtgtctact tatgtggcat 240
ccaactgctt ggagctccac acttcccttt cgcgactcag gctctggtgc tgttgccaat 300
ccttgcttgg caaagactgt tcgatcatgt ggggtcctta tttacaaggg aaagctgggc 360
cagaaggcta gcaattcang tgttaccgct attgctgtgc cttgtgttan gacattgtgt 420
gtgtgcatgg actgngcctc caaactcagt agttcctatc taaatatnaa gtatattaca 480
aacctggaag tacagaatct caaccttaca gtctttccct tantcctgtg gccttctaac 540

canctgntaa cgtgttgatt ccttncactt ccccaagtag gcangcacan attgtgangc 600
ttaaaaagta atctggttcc tntgactcat tgaattcant ttgcgcntct ggctggaaca 660
nntgttgtta cagnttttaa gaaaattgct ggntgcccna taagggtggc ctggtgctcn 720
gggcctgngg ctn 733

<210> 4029
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4029
gnntttagat cagctcttgt tcttttgcag gatccctcga ttcgaattcg gcacgagagg 60
agaaggagaa agcacatgaa ggagcaagac ccatgagagc catcttcctg gccgatggca 120
atgtcttcac cactgggttc agccgcatga gcgagcggca gctggctctc tggaatccga 180
aaaatatgca ggaaccaatt gctcttcatg agatggacac tagcaatggg gtgttgctgc 240
ctttctatga ccctgacacc agcatcattt acttatgtgg aaagggtgac agcagtattc 300
gctattttga gatcacggat gaatccccgt acgtccacta cctcaacaca ttcagcagca 360
aggagcctca gagagggatg ggttacatgc ccaagagggg acttgatgtt aacaaatgtg 420
agattgccag attcttcaaa cttcatgaga gaaagtgtga acctattatt atgactgttc 480
ccaggaagtc tgacctttte caagatgacc tgtatcctga cacagcgggg ccagaggccg 540
cgctggaggc agaagantgg ttcgaaggca agaatgcaga cccaatcctc atctncttga 600
acacgggtac attccangca aaaacaggga tctcaangtg gtcaagaaga acattcttgg 660
atagcaagcc cactgcaacc aagaagtgcg anctgatcag catncccaag aaaaccacag 720
acacgggctg tgancaaaaa tgaacttgta ccgaccatgn 760

<210> 4030
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4030
gnnttttana tcaagctact tgttcttttt gcaggatccc atcgattcga atttcggcac 60
gaggctgtac ggagagtgct ggaccgaggg gagctgggag caggtactgc ctccatcctg 120
agctgccgtc ctttgaaggg agaacctggg gtagggttcg aggagcctgg cgagaactgt 180
gcacctcctc gggaggagca gccccctcct gtgctgcttt ccccctcccc tcaatatgct 240
ggggcggaga ccctggcctc caaagtgcaa ttccgggacc ccaaatccca gcggacgcac 300
caggctcagg tggcgttcca ggtgtgtgtg cgccctggct cctacacccc gggacccccc 360
tccgctgccc ttggagaacc tcctgaccct cacttcagtc cagccgaact tgagtgggtc 420
actaaggaga agggggccac actcctctgt gccctgctgg tacgggtgga atgaggggtg 480
agacaccact actacaagca cagtcgggcc gcgggcccat ggactctgan tggcgactgc 540
cttcacctca ttcccgtgac tcgtggcatg cncangtgct ggancttggc agccgcncan 600
gaacatgtag gcaggctctt aaatgtaggt ggcaagtggc acaacttcca tgtccgaggc 660
ccacaattcg gctgatggaa gagtctnggg aacccaantt cagccctggt acccctttte 720
atgcntgatt ngggaacatg actcctttta ctncccn 757

<210> 4031

<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4031
ttttgttcca ttcagctctc gttctttttg caggatccca tcgattcggt ctgctgataa 60
aatatttaac cccaagaaag tgaaaactaa tataaaatta gaaagaccta tccaaattag 120
acagtcaatt ccattaaaat aagaagtgag aaaaacaatg ttgggcattg aggtgtaaat 180
tttgcccaga tgtataccca gtgtgaaata tcttctaata aaaatatatt tggctcttat 240
ccctgcacat gtagaggcat aaaaattggt aaacatgtcc cgctgtgtag aactttaaaa 300
aaaaggcatt tttgaaagtg ttgagtggca ctgataactg gtgaancnnn nntnnnnnnn 360
nnnnannntnn nnnnnnnnnn nnnnnnntnn nnnnnnnnnn nnannnnnnn nnnnnnnnnn 420
ntnnnnnnnn nnnnnncnnn nnnnnnnnnn nnnnnnnnnn nnnnntnnnn nnnnnnnnnn 480
nnnnnntnnn nanntnnnnn nnnnnnnnnn nnnnnnnntn nnnnnnnnnn nnnnnnnntn 540
nnannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnannnnnn nnntnnnnnn 600
nnnnntnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnntnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc nnnnnnnnnn nnnnntnnnn nnnnnc 776

<210> 4032
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4032
ngtctaatnc tggctctcgt tctttntgca ggatcccatc gattcgaatt cggcacgaga 60
ggggccttac attactttct tgcagcactg atggcttntg nttgaggctg cacaaattcc 120
tgcatttccc ttgggttgaa tggnagggat gcgggcagtt ggtgactggg tgaaccacct 180
gacttgagca gggctacgac tctctctgca aacnaaaccc agagacatga acagtgctga 240
natttctcag tggtttccca tgtaggctgc tttccaaggg cancaagcat ggcttnatca 300
ctcacccagt gcttctgatt cagcactgtg atgctcggtt aantttaat gaggttntaa 360
atnttttcgt atgtacgagt gtttatgcca acaaagatgc tgaattgtaa acaccancaa 420
tctgagtacc ttcttttgat tncnntctnc atattgaata atccctntat ntttgtgcgt 480
annatgaaat tgcatnngat gtatnggttg anagtagatt ggtnatactt tncaaggaca 540
ggcaacaatt tcacgatnna acttcttaaa aattnttntn aacaaatgtn aaaatggatt 600
nttcttccaa aaaaccnttt ttccntttgg cacataccca ancaantgac ccngaaattt 660
aaaagtaatt taggngacnn gantttagat gattaagggc nngtttaacn tttggacagt 720
ttttgccctt ttttaaaagg ctcggantcc nnttntagnn aactcgctcc ccnc 774

<210> 4033
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(769)
<223> n = A,T,C or G

<400> 4033
gnnnnnnntt tnaaancntt gctacttgcn cttgcanttt cccatcgatt cgaattcggc 60
acgaggtaaa catacaataa agctgaaaat tttagtgact acttatatgc tcatcatcta 120
gattctatcc ttgagtaatc tatttttata aaggtattga tgtaactatt ttataaatga 180
aaaactacac actaaaaacc aaatatgtga tctccagcat cacagaaatg aaataaggat 240
ttttttttaa cttaggtaat attgcttgaa ctgtagtaat tcaaatgtag caatttcaaa 300
ggtagaattt cccatgtatt actatactgc ttcacatcag ctctattaat aaaagtagaa 360
cagttgcaaa ggaactttta tgatctgttt tgacaggaca gacaatttaa aaagttgtta 420
ataaaggttt ttagaattca ctataagcct ttcatgtggc tttagttagc cacatggaga 480
tccgttctgg gacgaaagtt ggaagtattc tcaagaagta aaaaatncca aataatttat 540
aggggcacna gtggtttgaa gtactggtta ggattanaag ngggtcttgg cattgnccan 600
aaaccanact actttgcaca attatncttg aattcctaat catatccact agcctactct 660
cttaaatgac cccagaaacc ttgctcttaa catttaagac aatgggaagg tcttgctttc 720
taaaaatgcc tttattttaa tacccccttgc caataaatgg aatttnacn 769

<210> 4034
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4034
cgcaattttn annatnctct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agctcaccaa ttagcactgc caccgcaggt ctgtgaattg catgtgaaaa tagaatttgt 120
ccagaagtgc tcatgcaaat tgtgcaacac aaatgtggcc tccatgtcaa gtcctttcac 180
gtgttctgac agactcatgt ctttccagat ttctctgatc ggcgcccccc acccccttga 240
cagttaccag agctcataag ccaaaggaaa tagttcctgt tgccatgagt actgtgtctg 300
tggtgaggtt tatgagctgc tcttagggct gggtttttgc ctgagaaaac aatcagattt 360
cgcttagatc tgcaaganag cagattagga agggaatata tgcaaatatc tatgttaatg 420
ccccaaacct ataacttggc ctcatggtgc ttgtgtagca nttctcttag agaaaacttt 480
ttttgcattt aatatatatt tcatgntttt gaaaatctgt gttcatgcaa agaaacctgg 540
aaagcaaaag catnaggtca aatatgaact tggctntnat tcatataatt ggggtatatc 600
atatcttttg tgacatanaa cngtnctttn ataaccatct ttgcttttnc attggaaaaa 660
atncagcttt cctgangagg aatatntttt cantgncnct nttaaacctt tnganngnng 720
tngnngcggn nanggggccc n 741

<210> 4035
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4035
gnnttnanat acagctcttg ttctttttgc aggatcccat cgattcgcag gactcaagat 60
gactttctaa ggtgatttgg ggatgcagtg tatgcatttt tttactcttt ttgaaaaaaa 120

tcttttcttc gcctttggag tgtaacattt ggatagtttt attcagccca taataggacc 180
aaagggaagg ggataaaaaa aaattcttta aagtacctca gataaaaagg ttttgtgaag 240
aaaaggactc aaaatcctag gttataccaa gactttatgt tcattttgaa ttttctttat 300
tcatttttt cctctctgtg tatagaataa tcaggagata ttggtgggca gaactgttgg 360
ttgataacag gaagcagagt atctgagaaa ggccctcatc ctgtttcctt ttggagctac 420
tgaggcctca catgccagcc attttaggat ttgatgaagg ctagagaaga gttaaactga 480
gccttcactt actcagcatc agtaggaagt agtgttggct acactaaaaa caccgttgtg 540
ccagtgagga tttgggggga aaatgacaag ctgcctgtga taaacaagca aactgtgaca 600
aacttttga tgtgtaggtt ctgaagcttt tcaagtttac cgtcctcaaa agaatattta 660
tatatatata tatgccccac atgcccaatn tngcattata tacctttnga tntacctgga 720
aaganaaaan gatgaaatgg ccngtaaaaa ttgganattt ccagggaacc cgatc 775

<210> 4036
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4036
ngnntttnaa tatacaggct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagctttag gttcttgatt atgtcactgt aataaagcaa ccaatggacc tttcatctgt 120
aatcagtaaa attgatctac acaagtatct gactgtgaaa gactatttga gagatattga 180
tctaatctgt agtaatgcct tagaatacaa tccagataga gatcctggag atcgtcttat 240
taggcataga gcctgtgctt taagagatac tgcctatgcc ataattaaag aagaacttga 300
tgaagacttt gagcagctct gtgaagaaat tcaggaatct agaaagaaaa gaggttgnag 360
ctcctccaaa tatgccccgt cttactacca tgtgatgcca aancaaaatt ccactcttgt 420
tggtgataaa agatcagacc cagagcagaa tgaaaagctn aagacaccga gtactcctgt 480
ggcttgcagc actcctgctn agttgaagag gaaaattcgc aaaaagtcaa actggtctta 540
ggcaccataa aaaagcgaag gaagatttcc angcaaagga tgatagccag aatgccatag 600
atcacaanaa ttgaaaagtg atccagagga aactnaagga cncaagtgtn gatcataatg 660
aggacccgga aacnccagga aagtcttcng gngggaagaa aattgaaaaa ccngccaaat 720
gccttttgaa agccaaactg ggaattgaga aataattcaa atncttggaa atttaggagn 780
aa 782

<210> 4037
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4037
aanngtttga anacccngct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagggttc ataaacacat ggctaacaaa gtaaagcctt caagtctggc acagactctt 120
gactacacga tgggaaaagg gattccaatt acgatttaac ttgtatttta aagatgagaa 180
aagaaatgaa taagaaaatt tgttgctatt tttcttcttc caaattagaa tctatatctc 240
taaaaatact ttgcatgttt agtaaacatc catcttgaac agaagatacc ttgacatcag 300
ttctatttaa tacttatggc aattaagaga tttagaaagc agaggaaaag accaaaaaaa 360
agtatgtgtt acaaagtgtc atcatgcttg taggacccca gcattcttga aactaacgca 420

cctttaaaaa gtaatattta cactgctgta aatatttgca aagtatcaat gtttaattca 480
cttagaattt taaggattat ggatttacta gcgaaaattc ccctaaagca actttcccat 540
atcagtaact tttatttagg gaaacaagtt taatgtcata atacatgtga ccttggaatt 600
caatagaatt ttcgaaacta gaagtaactc agaaccgttc actagatgtg ttttaaaggg 660
ctnttttgat actggcctta acatttgctt atttgcaaat taatatgtaa agaatgggtt 720
ctaaaagtaa gttttaagga atgggtattt cnncaaaaat gttatttcct attnc 775

<210> 4038
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4038
ngnnntttna gatacagctc ttgttctttn tgcaggatcc catcgattcg aattcggcac 60
gagcccaaac ctaatttagg agtaaatttt ttgtagcaga tagccagatt tcagccaatc 120
acaggcttcc agctaacaag actatgccca aataaggcaa atgcctcatc acatgatgct 180
caaatnaggc agccacctag gcnaggccaa tcaggtaact tttctacttt gcttaattgt 240
tcagcctgta caaatttgct gcttatgact gctgagcaga gctgtctnaa cctcttctgg 300
tttggagtgc tgccttatat atgaattggt ctttggtcac ataaaattgg ttaaatttaa 360
cttctctaaa gttttgtatt aaattgtatg taaaacattg gtagcacaat ttggattcag 420
atacccaaat attgactatg ataatgtaaa taatccttaa gcagactgat ttacaaaggc 480
ctgaacaagt ttgatattct gaatattcac ttcttctgat gaaaaaattg ccaagacctt 540
ncaattggca gggaaaaaaa atgtgtgttg gttaaataag ttatgtttaa caaccaagaa 600
catttaccac aanttaggaa aactctttac ctatggccca nggcacctat ttttaaacca 660
cacccttttg gtacccttttt ttttaaattc ctngaaaaaa attttnttaa attaaaatat 720
ggccttttta aatatttaat ttggnanttt taatanttta angtggnant tttaaatatt 780
tggccccctg gttttttggg ggaaattaat tgccngcaat ttaan 825

<210> 4039
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4039
gnnnnnnnnn ngnnnttttn aatatacagg ctacttgttc tttctgcagg atcccatcga 60
ttcgaggata tgttgcacta gtngttcctt gtgactggaa tattctctgc ccaaactttg 120
aaaggctagt tagttacttc tcatcattcg ggcttaggtt aagtgtttcc tccttagagt 180
tcttccttga tttatcttcc ccccagtcta aagtgccagt cacattaatc tgacatattt 240
ctccatacag cactcatcac tgattgatna aaaatctatt ttgccatntt tctctctcac 300
tggaatatta tgtgctcatn aagaagctac tcgtgtatan tgntcctgat cgtctgngct 360
gcataacaga ttacctgtgt catataaggt gcacaataac tatatgcgnt gcgtgaatga 420
ncaaacgttc tctccagtct nttttcaaat cttctattcc atcacgactg aaccaaaagg 480
aaatgtacta gacgttctgt ctggcagcct tgttccatgc ttagcctttc antgattgcc 540
antatctttn atgatgctgg gccttngcct tnaccatggc tagaatgtta gantnatgaa 600
cnaananatg ccattttgat ccctgctgcg ttcacctnan tatggngcct ggcaagcctt 660
taanaacntn atnactcagt gnaccaaatg aatgagtaaa cgacctttta natcctttna 720

aggaantnaa ttngcctgnt tataggnaat ngttggancc naattccaac ttnggccaat 780
tggaaaccc 789

<210> 4040
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 4040
gnnnttttn gatacagctc ttgttctttt tgcaggatcc ctcgattcga attcggcacg 60
aggcagtctc ctgagccaga gtgtgctcag acagagtcca gctggtggaa agggacttat 120
ggagagaaaa agaaaagcga tgtagaaaaa ttgaaaagag gtacagaaac agctggattg 180
gttacagctc ggtgtttgcc ttattttgaa cagggtttga acagttggcc acctttggtt 240
gctcaaaact tggtgattgg cacaagagta ggttacagtc tgtttgcaca tccatttagg 300
ttgcagttca ctgtgtacag agaaaccttt aggctgaact taaaacgtgt aaggagacag 360
ctttctgctt gatttaacag taacacgggt gtgtgttggg aggtagggag gtgggggctc 420
tttcttntnt nannntgnct ttttncacaa canttntgan gantnagctt gtnatgnatt 480
tgngcaactg nttntttntg tnattntaan cnngancnnn cnnnnnactn attttnanat 540
ttnanaaaan tncatnnnnc nngcnnancc ttnctttnnn tnctgncnaa tnnnnngnng 600
nnctnnnnac nnannatnng nntnntgnnc tgnntnngnt ttntttttnnn aananntnnt 660
ntnnggnnnn nnnnnnnnnt nctntttnna annennnnnn nngnnttnnc nnggnnnnna 720
annnnnnnnn nnntnnncnn nnnnnnnnnn nt 752

<210> 4041
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 4041
gnntttnnaa tcagctcttg ttctttttgc aggatccctc gattcgaatt cggcacgagg 60
tcagcccagc tcacggccct ggctgcccaa cagcaggccg cagggaagga ggagaagagc 120
aatggcagag agcaagattt gccgctggca gaggcagtac ggcccaaaac gccacccgtt 180
gtaatcaaat ctcagcttaa aactcaagag gatgaggaag aaatttctac tagcccaggt 240
gtttctgagt ttgtcagtga tgccttcgat gcctgtaacc taaatcagga agatctaagg 300
aaagaaatgg agcaactagt gcttgacaaa aagcaagagg agacagccgt actggaagag 360
gattctgcag attgggaaaa agaactgcag caggaacttc aagaatatga agtggtgaca 420
gaatctgaaa aacgagatga aaactgggat aaggaaatag agaaaatgct tcaagaggaa 480
aattagctgt tcctgaaata gaagaataat ccttaacagt ctgcaaactg acattaaatt 540
ctagatgttg acaattactg aatcagaagg catgaaagag tataatttta tgaaattcaa 600
aattattctt ttttcaagtt gaaacttgcc tcttctactt taaaaaagtn tntngaacca 660
gttacttcta ataatcagaa aggagatgtt ttatnggaca tttctttaat ataaagttag 720
agatgtcttc ttagcagtat ggctatcttt tgccacagaa cata 764

<210> 4042
<211> 757
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4042
gnnnttttat agatacagct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggtttta tacattttat gttctttgca aaactggagc cccagaaaga atacaaagtg 120
agcttctgtt cccacttctc ccagaatagc ctaggatggg caaccatgta aaattcaata 180
aaaatccaac cttctaacta actcgtggtg ttggagagta ttaagcattt gaaaagttca 240
ggtagaattt tcatcctttt tgagctcttt cctagctgct ttgctgtgat atatctgtca 300
ctccagatga gggagtagtg gtggaaaagg aatgcattct cagattcatt gttggtagtt 360
caaaagaaaa taagtaaacc ttattcattc tctgaagtac tttccaccac tactacaact 420
gatccaagaa aacaatttcc cattggatgg tattattcag agtgttatta acaatcagtc 480
ctgaattttt cagaatagta ctaaagttgt ctttttttt aatgggttcc ttncttcaag 540
gttatagtaa agcttttta taaccttcaa agaatacaaa gtggaatttg taatttatng 600
gatatacatt cctagtttac aggtactatt taaagctggc aaatttanat naagatgcct 660
tccctttaaa ttgccccttt aaatctatgg catgtctcac ttaagagttc caatttcaga 720
atttcatggc aacttgggaa acggcntgan ggaattt 757

<210> 4043
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4043
nggtntttna aaancngccc gttctttgcg gaccctcgat tcgaattcgg cacgagcttg 60
aagtagaatt ttttttcatt ccttacactt ctcagtgagt ggtaactgta gttnttgcta 120
tcatttttca ttttcgtttt tgcagttgaa catacttttt tcactcagag agttggaggg 180
acttgcccaa nactgcccaa tggcaatgag atttcaacct caaatcaatg ttctttttaa 240
tgcaagatga taaagagtng gattcancct aatttaggat agaataaagc caaatanttt 300
aggataggtt ctttggtgtt catgggtgta atctaatgcc catgatgcaa gtggcagagt 360
anagaattag tgcacagcaa taattaaagt gacatattgc caaaggaagc ggttntagcc 420
cattatataa tacctttttaa aggacagacg catactcagg tttattttac ctgctgagct 480
tctgccttag aagttttcag aattgtgatt acattgaata ggaaaaaagt ctgaactatc 540
agaaaccagt gccgcaactt tgacaaacaa ctgattatta taataatctg cctctagcat 600
gagactatnt taattattat ttaagctctg gnggacttca ttaagcagcc cagtnaccac 660
cngaaaggtt aaagattatt aaaatggaaa ggaatggtta ccaattnggt tattaattcc 720
gggaaccctt aaggcangga aaaatgggct ttgaaacccc aaaaaggtgg gaaggctgca 780
antgaac 787

<210> 4044
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)

<223> n = A,T,C or G

<400> 4044
ngnnntnttt nnaaatacac gctcgttctn tttgcangat cccatcgatt cgaattcggc 60
acgaggggga aagttttcag ttgtattatn agntggattc tgactatttg ccataactgt 120
attctataca cttgctgaaa acattgaatt agggaatact gaatcatggc tcctaaggga 180
aagacagggt taggttcctg gaagcctctg gtcacaacat tttcaccaac tgatcaatag 240
ataaccttgt tntgtttatg tntgtgttta gagacattta atatatatng ttgacttact 300
aacatcgaac tcatggccaa tagcactata acttacggct gaacaaagct tatcaagtct 360
tttctctata aggcacatcc caccttcttg cacttaggag cactagacgg catttctcag 420
cactatacaa ggggctattt aaaacagaat aatcacccac aaaaagcaca acaattcana 480
aaaannaaaa gcnaaagtct tananaacan aacattgcat aananttnan aatcagnaaa 540
aanttngccc tttaaaccnt taggggncgn ttcccanngn ccnancntna tangatccat 600
tggtaanttt gggacaancc ncanttgaag gcnntgaaaa aaagctnntt tngggaaatt 660
tgnnatctnt ngnttaattt ggaacctttt nacncncttt aaccnnttnc cacntccntt 720
gnattnattn nntnttnang gttcangggg aaggttttgg naagtntt 768

<210> 4045
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4045
ttgtcttttt gcaggatccc atcgattcga attcggcacg agaacatgag ggccctctat 60
gccagaagtg aattcatctc acaaaacatg ttgactctag actggtgcct cctccagcta 120
ctactacccc cattagtcac ctagtaaaaa atgacgacat ttcatcacct gcacatgaac 180
cgctttcccc ccatttctta atcatgaatt nctgtgtctt aaattattaa tggctaagac 240
taggtctggc agtaaattnc tntctcctgg atttttggcc caactcgagt atttttgaaa 300
aaccgacaca gtattttagg ggagcccaaa aaccatgatg ggaaaaagaa tgagctggtt 360
gtaaaggaag agggtggcag agcccctctc cagcagtgct cacagggact tccccagggc 420
accaggcacc atctggagac ggntttggtc acactgggat tgcggggagt cacctagtgg 480
gtggaggggc cagggatgct gctgaacacc caaagtgcac aggatggctg cagtcganca 540
tgtcaganaa agggtctggc cccaaaagcc actcgcgccg gtggctgana caancttgga 600
gcaagggaac cctttggtca aggnccccan gtttttttaag ctaaaacgta aancaggaac 660
cattcaagcc aagaaggagt tcccaggnac gttttttttn ttanggaatg gacccttaa 720
gaaaaattga aaancatnnt tacccatggg gttnaacccc catggaaatt tccgggccaa 780
attccaagtn cctn 794

<210> 4046
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4046
ntgnnttta atactngctc tcgttctttn tgcaggatcc ctcgattcga attcggcacg 60
agactgtgga gagatctcag tttttctatc tgtaattgct catattttga atgctaagtt 120

ttcatcaacc ataattttta cgtgctctaa tatgtttctt cacagattca tgccatgttc 180
agtttaaaag agtcctgttc ttttaataca ttatctttga aatgcctctt actgaggaat 240
gactaaactt cttctgaaat gtgctctctg gattgaagtc aagagtacat gttgcaacaa 300
agataatcat gacttttagt attaagagac aattaccaga ttgagtgcta cttanaaaag 360
tttccctccc tgtgcagaga ttactggctt atcaaacaac ccgccccatg tgggccatat 420
atnattgaga taattantnt ccaactgata ctaaaaggng taattgggat aaattaattt 480
tagcaaagag tcctgtntcc aaagaaattg ggtcatgtat ttggcaatta ccaaaaagtc 540
agtngtcaaa tatgaatgat accgtggtgt gcagtgaaca atcaatttac tnaagggagg 600
ctggccttta ccttcgctct tngagacanc tctagcctgg aaatcatgcc tgataggatg 660
tcttncttgn ganggactga aaataaagaa tacctgaaat ctggangatt ttaagaggtg 720
gtgtgaatct gttnaagaaa ggtgaggaan 750

<210> 4047
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 4047
ccctttnaan tcccttgttg tnnannagnt nggaaactna agcttcgtaa aaganaggnt 60
tgggaatnng gcncggggag gaagcattca catatnctag aatantatga cttggctatc 120
aacccccttgc cggctgnagc tccccatnng ctgtagtcct gtatgtgcta tacccaacct 180
anagcacggc gccatgcctg gctaatttat nctcataact ttctacagag atggggtctc 240
actatgttgc ccatnctggt cttnaactcc tgncttcaag tgatctncng cctgagcctn 300
ccaaagtgct gcgattatan acttnaancn atcgacttgg ctcaaatctt ngttntaatt 360
ggnccctttng tcagaaagaa tgtgccactc tgaantttgt tccnnatatt gnnntcttna 420
atcacttnna acctattnta cannnatntt natttnctca tgaaantgct gggattatnn 480
acatnaccaa atagtgcttg gctcaaatat tcgnttcaat agnnnctttn atnncanaag 540
actntgccac tnttgatttn gnntcangng tgttaagctt agtancttgc acttanctgg 600
aacctattat ncntttnaat tttacttnna tnncatcttn ctaatcnnaa tntcnatctn 660
naatnnanct ttntaatnnc atctacnncc ngnttttnna attttnctga tnactggnct 720
anttttancc ggnnnttnta aataacgnnc nnaccnanat ntntangcat nnactcttcc 780
cntgtanttt tctncnaata aatntnncgg naanatacnn nacc 824

<210> 4048
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4048
ttctaatgct tggttctaat ncntgggctc tngancttтc tgcaggatcc cntngatncg 60
tataatctgg gggtacagag caagaagaag tactttgact ttgaggagat tctggccttt 120
gtcaaccacc actgggagct cctgcagctt ggcaagctca ccagcacccc agtgacagat 180
cgaggaccac atctcctcaa cgctctgaac agttataaaa gccggttcct ctgcggcaag 240
gagatcaaga agaagaagtg catcttccgc ctgcgcatcc gcgtcccacc caacccgcca 300
gggaagctgc tgcctgacaa aggactgctg ccaaatgaga acagcgcctc ctctgagctg 360
cgtaagagag gaaagagcaa gcctggtttg ttgcctcacg aattccagca gcagaaaagg 420

cgagtttata gaagaaaaag atcaaagttt ttgctggaag atgctattct ccgagcttcg 480
caatgccgct aaggacgaca agaagaagaa ggacgctgga aagtcggnca agaaagacaa 540
agacccagtg aacaaatccg ggggcaaggc caaaaagaag aagtggtcaa aggcaaagtt 600
cgggacaagc tcaataactt tagtcttgtt tgacaaaagc taccctatga taaactcttg 660
taaggaagtt tccaactatt aacttataac cccaacttgt ggtctcttga agagactgga 720
agattcgang cttccttggc caagggcagc cctttaagga ncttccttat taaangann 779

<210> 4049
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4049
ttccaanngg ctnggttctn atncttggcn annaaaantn ggtnggaatt cggcacgagc 60
tttgcagcct tttcctgccc ttaaatttga tacctttggt gtaggagctg cataagngac 120
agttgctgnt tttacgttnn cacgcgtgat cttgaccctg ctagcctgaa gtgtatggtt 180
tctcttagcc agttctaatt tttgttcagg tggaagatgg atgcctgaag tgtagactgc 240
tgctagctga ataccatntg ggagcataaa ggtgacctga aggtagggng atatgtctta 300
aagcactttg taatgggaat ttttatcacc ttttaaattg gggttccttc tctagtgagt 360
tttaatgtca gtaggtacat tcngtantgt tgctctgtct gtagctatta aggngagtta 420
ataaatggga tagcctccac agcttatttt tgggaaggtt ttgctgatac ttcctgagaa 480
gcccanggaa ataaatacgc atagtctggc attctgcatc ttctttaaga tttgtttnta 540
tgtgtangta attgagtttt ttaaaagctt gngaaatcng cangcatatt accaaagttc 600
ttgattaaaa tggtaatnnc aanaaatntt tngctgtcna attgagtacn tttaatttca 660
nctcttaatg atggnccntc ggtgnangga ttttgaaaaa ttccgaatct ttcaccatng 720
aacttaccct aggaattcan tttnganaat tnnncatggn naantcttgn nnggantacc 780
tgaaccataa atttcccngg tcncg 805

<210> 4050
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4050
tccccttttg aaccttgtcc aatnagtctn ggttctaatc ncttntcnan nagnnaggng 60
ntgggaattc ggcacgagta ttagtgataa gtatatatgg acatcttttg gaacaaagat 120
aactaacaaa agacaagaat tttcaagaag gaaaacaaag aaaaaaaggt aatcagggta 180
tgttacatag nttanctgct tatagttntt ctttggttct gctcatggaa acacaatgac 240
tatcaatcta agtaagacta taatatatta gaaggatggg tgatgagaag tgtgaagtgt 300
tgcaaaggta aatccttatc ttccgctatg aagtatcaat aagcaatgcc caaaaaaatg 360
aactattaag aagtaactgt aaagttatat catttanaga tagagtggag tatagcaaat 420
gaatcagcta aaatatnttn aaaatgggta ccctctgggg agtggaagat acatgtatgt 480
attgngggtg ggggatgcac tgcaatgaga tttctttttt ttaatccttg tggtactact 540
tagntctcta aactatttgc atctataact ttgctaaaaa taacntttaa atttncaaat 600
tgatcactct tgtnatcagt tcaaatngaa acaaggagat aacataattg ctaagnttat 660
ttttggcata ttnatcacnt tgtatatgtn tcantgagaa taccatgtta cattcctctc 720

aagcangtnc ttcttaaagt cnaaattgct gnattatttc tcaaaaacna ttntngnant 780
ncactttng 789

<210> 4051
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4051
gcgtcccccc tttgaaactc ttcaaatccc ttggtttnaa ncccctttncg caggatccca 60
tcgattcgaa ttcggcacga gatttgcctt aatcttgggt tactagtaat gctatctgcg 120
ctgtgcgtct aaagcctcca gaaagattgc tcaggcatgg cctaatagct tttatcagtt 180
cactcagtgg ctcttacact ttgatacctg aaacctagag ttaactgtgt aggaccaagc 240
tcttctgaag gagtcaactg ctctcctctg tcaataatgg ctgtttatgc caaaacagcc 300
aagagaacct ccccacccccc ttcccctctgt caaagtgaaa tggaacctaa gaatggaagc 360
tagtggctat tttgccatac cccaaccaac ttgctattgc ttaattccat ctaattatca 420
gctgggcgtc gtggctcatg cctgtaatcc catcactttg gtaggccgag gcaggaggat 480
cactagaggt caggagtttg agaacagcct ggccaacatg gtgaaaccct gtctctaata 540
aagataaaaa aattagctgg gtatagtgat gggtgcctat aatcccagct actgggaggc 600
tgangcagga gagttgcttg aacttgggag gcagcagttg cagtgagctg agattgtgcc 660
cctgcactca aagtctgggc gacagantga gactctatct taaaaaaaaa aaaannaaaa 720
aaaactcgac ctntagaact atagtggagt cgtattacgt agatccnact gataggatcc 780
attgg 785

<210> 4052
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 4052
agtctccctt ttaancctttt caaatccctt ggttcangcc tttacgcagg atcccatcga 60
ttcgaattcg gcacgagctt gagagaatag atctagatgg gtggggcacg gttctgggga 120
atggaagggc caaagaggaa agtgggcaat ggtggggttg agaacgcagc ttctggactc 180
agcaggcctg ggttcaaact ctgttaatca ctcctgttaa tcccagcgct ttgggaagcc 240
aaggagggag gatcacttga ggccaggagt tcaagaccag cctgggcaac ataatgagat 300
tccatctcta caaaaaataa aaacaattag ccaggtgtgg tggtgcacac ctgtagttcc 360
aggtacttgg aaggctgang caggagaatt gcttgagcct gngagtagtg agtcatgagt 420
gcagtggcac gatcatggct cacttgcagc cttgacttct naggcttagg tgacccccca 480
acctcatcct cccaggtggc tgaaactaca ggcacatgcc accatgccca agctgatttt 540
tttgtagaga cagggcttca ccatgttgcc aagctagtct acaaaagcat ctgantttg 600
gaagtacatg gaatttgttg taacaaaant atnttgaatg gaaatggctc tcantgtatt 660
tntggaattt tccattaaat aatttggctt ttttccttga aaaaacatan nnctnctttn 720
tnntntnnat acttnccccc tnnttantat tatanaatnt cnttcnagcc ctttnncaan 780
ttntcntgga nttnnttatt ncattttatc cct 813

<210> 4053

<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4053
tttgaaatcc ctggtttcaa ntccttgcgc aggatccctc gattcgaatt cggcacgagg 60
cgtccttcag atatcaaatt caagcctcta aataagacca aggagtatac agcctgtgaa 120
ctgatgaaca tatacaagac tgacaatcac ctgaaacatt atttacatat cattgaaaac 180
aaacccctgt atccagttat ctatgatagc aatggtgtcg tcctttcaat gcctcccatc 240
atcaatgggg atcattccag aataacagta aatactagaa atatttttat tgaatgcacg 300
ggaactgact ttactaaggc aaaaatagtt cttgatatta ttgtcaccat gttcagtgaa 360
tattgtgaga atcaatttac ggtcgaagct gctgaagtgg tttttcctaa tggaaaatca 420
catacctttc cagaattagc ttaccgaaag gagatggtga gagctgacct aattaacaaa 480
aaagttggaa tcagagaaac tccagaaaat cttgccaaac ttctgaccag gatgtattta 540
aaatcagaag tcataggtga tgggaatcag attgagattg aaatccctnc aaccagagct 600
gacattatcc atgcatgtga tattgnagaa natgcagcta ttgcttatgg atntaacaac 660
attcagatga ctcttcccga aaactttcac cattagctta atcaatttcc tcttaataag 720
ctcactgaac ttnttcgaca tgaccatggg cannccgttg gcttcacttg aaccactt 778

<210> 4054
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 4054
agtctatanc agctctgttc tttttgcagg atccatcgat tcganttgng nacnangttn 60
gtgcttnacc actgcttact canggcccgc nctttgcccg catttntgca natcnnaccc 120
ctancccang agcctctggc agacttaana gcctgctgnc ctcaccagng nnccnacatn 180
gccggnctga gancnagtgn ngagtcacag nctcagncan aatgccnaac gcctcnanct 240
gntcctgacn gntnccnagg ggacaccata tagccttagt catgnntcat atgcccggan 300
gaatcttccc ccaganggga ctatcctagn cnacnagatt tgtgtcnaaa tntctgcttg 360
ntgttngaac ctncanacna tatggnanng acacactatg gaagtctgga attncatgga 420
natttnatga tatgaantaa ntgtgtangc tcctggcata gcaatgntgt nttacttcgg 480
agntnaanng annctggacg ttgcngacnt gntccntaat ncaangcacc ctnatggang 540
atagcnggac atnctgggct tgnnnatnga tcctgntgaa gcaannctgc gntgtgatta 600
ttacccgtng gctggngncc accagcactg gctaatgctn tacggctnna gtntctttgt 660
cagnntattn aatggntatg taaactttna gaattaaant gggnnctntt gngnnngant 720
annttaacct tacntntttc ctat 744

<210> 4055
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(1017)
<223> n = A,T,C or G

<400> 4055
gttncttcca tcagctcttg ttctttttgc aggatccctc gattcgcttt tttatagtga 60
tcacttttga attgtgttca gatatgcagt ttcaggtgta atcatcagag ctggttagtc 120
aggcattcca gatagtggtt cttttcagaa ccttttaaa agggttggtt aactacctca 180
gtagcagagg attgaactat accctgtctg tactgtacat agaaaatctt tgtagataaa 240
agcaaggctt gntnaatatg atatgagggt aagattttnn atanaccnan tgtaacnttc 300
ttagngcctt tagttncaag aggcttgcat acttnntnat naccantatn acacgcctng 360
nntttntcnn annnnnctnc tgcacacaca naccntntnt tnctngtatt tctgntncga 420
cannentnnn ctntcntctt acccnncctn ctnantnncc nttncctccc nnntccnccc 480
cccncgacac ttactnctnn cctncnncct nnccctcnnc tnnnnnnncn nnnntntncc 540
ncncccnnnn nntcnnnact atctnntccc nnctanngtc tnncttncnn tcnantntnt 600
gcntcnncnn ttctnntttn ttcnntcatn tcncancnnc ctgnnnnctn nnccnnnnnc 660
tnncnncntn tnttnaccnn ngncnctcnt ctcttnnngn nctntcnnnt cntnctcnct 720
cncnnnntnn ngctnnnnat nctnntntat ntcntcnnnn ntnncacnnt cncntntcan 780
cntctgttcn nnctctcann tcatcnntac tncnntntnn cctnnnncnn ncgcnncnnt 840
ctctctnnan nttccncant nnnntcnnnn anncnncttg atctncatcn nnnttctcnt 900
ncncatgntn ncnntcccnn atttcntatn nngnnngntt acctnctntc nnnatcnntc 960
nnnttacnnt catcncccce ctgntntccn ntncgnatcn tcnanncenn tntcncg 1017

<210> 4056
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4056
tntttanana tacagctctt ggttcttttt gcaggatccc atcgattcga attcggcacg 60
agggcagaga atcccttgta gaaaggtggg ggagaatcat aggatattat aactgtaagg 120
aacatgcaag attttccaga ttataccctt gatagaatag ataagttcct taaggctcag 180
atcttgctta aagtcgtcca gcctgttaga gacaagtaga acacgaagct ggcctctgga 240
gtctttattg agtactttgt acaattggtg tagactggga gagccctcct cacttcccct 300
ttcttgtgct gtaatttcct gtggggcaga acacctcaga ggtttctgtg catcaaaata 360
agatgcagca aagacatgga aaaaggataa cgagacanat tccancanta agtagatnag 420
gttgngtttt ttataaaaga taacgaggca ttccttccag aaatgtggag cctttgtaga 480
tttcagtgca taaaacccaa ccatgatttc ctgcagtgat cacagagcag agangggaga 540
aagccctttt atcacnaacc ancaggaagt ctctgtaaaa tnggtaagga ttctggttta 600
ntgtgaagaa ccccatttt gngtatgttc tgggccctgg gaaggacaga tcatatttga 660
cntcanaata aatgatcagg ccagcatggt ggttactctg aatcctaccc tttggaagct 720
taagtggagg attgcttanc ccanant 747

<210> 4057
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 4057
ngtattcaca agcgctngtt ctttttgcag gatcccatcg attcgtgaaa atacttatct 60
atagaaacag tgttgtaaat aagagagtct cagattatca aatgaaactt atttaaatcc 120
atgtaactga actaataata ccagctgcag ttttatcctg gctgtaagga ctaccatgat 180
gggaaaaaat aagaggaaac cttaccctcc cccacattcc cacatgacca gcagcataag 240
ggctccaggt taccacagta tccatcattt gtcttatggc cacccaagta cacctgttta 300
catgacttac tgggcctgtg tagaaattgc agtttgtgat aggatcccag tatagaatca 360
cagaaactga cttttgaagg gtaatgtaaa ggctatttgt atctaacact tttttaaaaa 420
acagtatgct tttgttttat ttattggagt atatttttga agtccctgtc ctctgtcact 480
gctcagagta attatcatct ggtttatatt ttctagagtt ttttgtgatn ctataaatta 540
tgtcttttgt tatgtaacac atgtaatttt tttacaacaa atgnggntaa tgctatacca 600
taatctacta caactttgaa ngggtttccc ccgtggttgg ctactttgga tctggccttg 660
gtngatattt tatatnttat antataggct ctcgttngtt aaattccatt taaccaactt 720
ccntggaaan ttcccattct ttgaaatggn cccattaant tatttaaatt antttccctc 780
ttgggagg 788

<210> 4058
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4058
gtnagataca gctctgttct ttttgcagga tccctcgatt cgaattcggc acgagatgag 60
gtgtgangcc nttnaatccg aanaagngcn cnaagantga gaacgtgatt gcntgaaatg 120
ttcatccaga natcttggna tataggagaa caggggggaga ctngattgat taggttggna 180
atatttgtcc tatggaccac ggtaacgggg nttagcnttc atagtatgta accaggantg 240
gnagnnggag tcatagagta tnggnnctct tnatcccagg agattcccaa tggggncagt 300
atctactgnc cttnnngaga gaccatgctn ngctgtctnt tttanggnna atcannaatt 360
tagtggtcgc ccctncaatc ttcattccac tcatccntac cctnttggca ttcttaatgt 420
natttgtggc cctgtcctta tcattttaca agggtaaatt ntcntccaga tatangaacn 480
tgtttactaa actttaagcn cnttaantta aacatcntta cctaagaaca ntcntggtnn 540
caannggagg ttnacaaggg gctagcgctn taaaaccact ctncttnttt nccggaagat 600
tgccnntctg ancttgtaag ntnangattc ntgtggacan gaaganttgt ggcatnacng 660
tttnacngnt gggttactan tgcacntgtc aactngnngn gaaatgtcnt ggatacaang 720
tgtnatgggg ntgaatttna acgggacnca anggtggngg c 761

<210> 4059
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4059
ggnnnnnttg tctatagctg gctctcgtct ttctgcagga tcccatcgat tcgaattcgg 60
cacgagccat cngtgnctng cnangggcct gccccatagg atggcctcag caaattttca 120
gtgaactcaa gttcattgan ttccaattng tgaaataaac tagagggcct ctctgaactg 180
ccngcctnat gagaangact gtgannagta nccngnccaa nacagactga ctgtgacaaa 240

nctagananc attacaggtt tctgagaaag aangaaggtt caagttcaca ttggtactgt 300
gaccacgnca gctcattgcc ctcctanacn gggctctgca agctttctnt ttactggagg 360
ctgnactact ctttnaagct gnaacagtgt gattataanc ccnnantngg ccccctttga 420
cancatcttt acaataatgc tcttggttcc tcaaccngct ggtgactctg aaagctgatg 480
nngacgggnt gccaaaantc atnatatann cagcctncna aangcngtga tctctncatg 540
anctcatgna nccttaaacn cgtgcttgcc cnttnttta caccnttaac aatnttgaca 600
tncacctnna tgcctntngc gaantcaaat ncccgtangt ccaggcttga aaangaaaca 660
cccgttntag gttgggacct ttccacaagn tcctnatgcn ggggnaanaa caatgnnttc 720
attgnnnnga naatncgtca atcccattgg nttttanttn gtnccttttc aaacgcgngc 780
cttttaaana tngttggnaa cccc 804

<210> 4060
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4060
ttnntcagct cttgttcttt ttgcaggatc ccatcgattc gaattcggca cgagcccagc 60
cataatggag cctgaaatca ggaattcatg tttcaaggtt acatgtacaa atgtatgccc 120
tctcagaaca atggccattt tgagaaagcc agtgagagac agccagacca ggtcctctgg 180
cctagcaccc accagtgcct gccagctcag cccaagtctc ctcacctagg atagcttgat 240
ggaataacaa tgtattttaa ttttctgtag acctaaaact gctcttaaaa agtctatttt 300
aaaaatccat cattaaaaca cagactttct ccataataag aagttggagg ggctgggcac 360
ggtggctcgc acctgtaatc ccagtacttt gggaggccga ggcagatgga tcacgaggtc 420
aggagctcga gaccatcctg gccaacatgg tgaaaccccg tctctactaa aaatacaaaa 480
attagctggg tatggtggcg cacgcctata gtcccagcta tttgggaggc tgaggcagga 540
gaattgcttg agcctggaag gtggaagttg cantgagccg agatcgtgcc actgnacttt 600
tagcctggcg acaaantgag actccgtctn aaaaaaaaaa aaaaaaactc gnccttttag 660
actatagnga gtcgtattcg tagatccagc atgataggat ccttgatgaa tttggacaac 720
cacacttgat gccgtgaaaa aatgcttntt 750

<210> 4061
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 4061
anaannngtc aatgctggct actcgnctnt ctgcaggatc ccatgcgatt cgcttgaacc 60
tgggaggcan aggttgtggn gaantcaaga tcangccact gcactccagn ctgggtgacn 120
ngagcagnga ctccatctca agaaanaagt nantaacnaa tnnttcgngn atgtgatgac 180
tgactntagt cnttatggaa aataacttcn ggcagctnag tanctactgg tcancaattc 240
cgntgtntaa gagangtnct acantcnant nctcaatatt ntcagnctga tttcaatacn 300
gacacgcnac cactgaaatg cngaaagatg gnaatcanag tgtgatgttn ntatnnaant 360
ctcgagattc acatgtaatn agacccttta ncttnaatga tcacnacatn anaatggnga 420
catgatctta acttgggaac atatggantn tgtatttgnn aattntagnn tcacanacnt 480
atccctatga ntgngacacn catgnctgaa atctaagctt tanaatattn nctntgtcag 540

tnaaacagca tgnttncatg cnnactgaan ctaannтccc aaatnaantg ntcatttttg 600
gatngnnngn ancacattgt naaccaattc gttgncaact tntgnntanc aaatnnnnna 660
ccatanctcn nntggnaccn atggaaggga tnnnatnnna ncaanaancc ttnggnnccc 720
ntctangnnc ctnttngtag angncncaan ttcccnctcn tgnnccanga catggnncnn 780
ggantacccc ttcattaatt ttggctnnta tancctcaan anttgaaatt ccnnnnncna 840
naaattnnnc t 851

<210> 4062
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4062
ngnnttnatc agctcttgtt cttttgcagg atccctcgat tcgaattcgg cacgagcttc 60
cttgtataat actgatcatt ctattttagc ggtaagaacc caagaaggag tatggatacc 120
tgtaaagctt tctggtcctt gggaagcctc tccttctgtg catattatta ctgaaattct 180
tcaaaagatt ctgagatgct ctcagtgttt cattgctact ttaattttaa tcattatggg 240
attgattgct gtcacagcta ctgccgcggc agctggagtt gctttgcatt tcacagtaca 300
aacagcagac tatgtaaata attggcagaa aaattctact ttgctgtgga attcccaaac 360
taatatggac cagaaactag ctaatcaaat caattatctc caacaaactg taatgtggct 420
aggagattga gtagttagtc tagaatatag aatgcagtta caatgtgatt ggaatacttc 480
tgatttttgc attactcctc atctgtataa tgaaagacag catgagtggg aaagagttaa 540
gaaacatttg aaaggtcata ctggaaattt actttagata ttatgcaact gaaggacaaa 600
tatttcaatc ttctctggca catctgacac taatgccagg aactgaantg cttgaaggcg 660
cttcaaatgg attagcagct attaacccat taaaatggat caagacnaaa naaaaaaaaa 720
aaaactcgan cctnttaaaa ctatagngag tcgtattcgt aa 762

<210> 4063
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4063
gtttatncag ctctgttctt ttgcaggacc ctcgattcga attcggcacg aggtcagagg 60
tcaacaatga gtatgtggca ataacaggat tcaaacccag atctgttagc ttccaaagtc 120
cttggtctta catgctaccc actagttcct tggagggggc tccggaccat ggaggtcaca 180
caccagtgct ccgagtgtgg tcctcacagc acctgcatca acatgaggtt gggatttgat 240
taaaagtgga tttctggggc cacccacatt ctgaatctaa agttctgggt gtggttttag 300
gaacctgtgc ttttaacaag tacccttagt gatttatata cttactaaac acttgagaat 360
cactgatctt tccagtgtgg tgtgacttat agacagtgtt ggacagaaat gaaacaaagg 420
agaaagatga agcacagaca gaaagagctg ggaggatgcc ctgcatgttc ttatatctgt 480
aaatacgcat ctcttctcct ttgtctcagc ccttgctgtt taaatctaga cccttacatt 540
tttcaactat ttggctccag cctnccctg cctgactcct ggctttgtat attacctctc 600
tttcctgact ttcactgcct tttacaagtt tgcattttct gctcattttt agaagatcct 660
actaagggcc aaaggaaaat acactgtaca gaaacctaaa attaagccct ttagaactat 720
agtgagtccg tattacgtag atccagacat gataggatt 759

<210> 4064
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4064
gntttnnnca gctcttgtct ttttgcagga tccctcgatt cgaattcggc acgagattct 60
cccaaaaagg ttcatcccga gaacactgaa gaataatttt tgggaatgtt aatgatgtgc 120
cacaaaatta gtattttatg atcaaatgaa tttgctttat aatattttat ctaaatattc 180
atgctcctga agactcacaa aataaaggaa actttatcca gctttttcca gaatttactt 240
gcacatagac tccatttata tagcatgcct attgaactct gtaaatagtg cagttcagga 300
aagatagcag tgtgggaaat gtcactctaa tggtcatata cgtttatccc atgggaggtt 360
aaagcatata ggtgagagga gagtgatcgc cctggggaac tgtaatgaga aaggattgat 420
ggctgtttca gttgttgttt tcctgtccct ggctgctggc atgggggcaa gggggaggct 480
gaggctcagg tcttagagaa cagaacattg catttcactt cacagtcagc aaagagaaag 540
ccaggcaagc acccagaagt cagtgcccca gtggagtcac aaaagactat taattcttnc 600
cacattgaat tgtgacacac aggaagctca ttacagactg agtgccctga gtttttattt 660
ggggctagtc atgtaggtcc ctttggctcc atgcccccca attccagact tccagaaaga 720
aagccagaat tcaaccttaa ctggcttggt tggtcnaacc a 761

<210> 4065
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4065
ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagaata cacaatttac 60
atgtcagagg atggtagagg aattgtcact tatgcttcag tctgacttag tgaagcagtg 120
gggccgagaa agcaatcata tacgcatttg tctcacatga gcagaggaac agagggatga 180
ctttaagttc tgtctgtttt ttgtccacaa ggaattttct tgtgggcaaa ttgtgaggtc 240
tttgtagcta tcttatttta ggaataaaat gggaggcagg tttgcttgat gtagttccca 300
gcttgacctc ccttttcctt agtgattttt ggttcccaag atttattttc ttttcacaga 360
ataaattgtc tttcagaccc agagagcatc acagtcacat tcagaaaggt gtccaaatgt 420
aaatcacact ttcacataga attacagcta tattaacaaa ttttttcttc cattgncttc 480
atttgtaata tataaaaaac ttaagctttt aaaaaactaa agttgaatta tggncttaaa 540
aatgatggtc aatcttatct tcactggcag gatatagacc atttgnctgg ataattttaa 600
gtaagttgct atacagtttt angccttcct agntattatt tggtggggta nttctcttac 660
tttccctggg nccagttttn accattggga acccccccct taatngncca ccntnttttn 720
ccccccccan aaancccann cnntttaaag gggggaaaat ggcccctnat taannccnng 780
gg 782

<210> 4066
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(576)
<223> n = A,T,C or G

<400> 4066
gnntnanntt cantatanat acaagctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg aggctggtgt tagggttctt tgtttttggg gtttggcaga gatgtgttta 120
agtgctgtgg ccagaagcgg ggggaggggg tttggtggaa atttttgtt atgatgtctg 180
tgtggaaagc ggctgtgcag acnttcaatt gttattaaaa aaaaaaaaan aaaaaaaaaa 240
aaaaaaaaaa aaaanaaaaa aaaaaaaaaa aaacntcggc ntttaaannt ttaggnngtc 300
gtnttacnta antccngacn tnatannatc cnttgtnaat tttggncaan ccncacctna 360
atgcatggaa aaaantgctt tatttgnnaa atttgngatn ctatncttta ttngnancct 420
ttntaanctg caataancaa gttancaaca ncaattgcat tcatttnatg ttccaggttc 480
aggggnaggt ntggnaggtt ttttaattcg cggccgcggc nccaatgcnt tggncccggn 540
ncccantttt gttcccttta ntgagggtta attgcc 576

<210> 4067
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 4067
nngnnnnnnt tttanancag ctctngttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagactg aatgggctgt atctggggaa tcaaggtatt agggttgagc aaaagcaaga 120
ggaagtagag catttgatct cttttccttt gattaggttg aggacaataa agtctcattc 180
tctcccttnt tcccatgggc agccttatat atgattgaag aacattantg cananattcc 240
tcatccnnaa ataaactctn gtacttntat actaattaaa gattcatgtn aattactaan 300
ttcttggaaa actatggaga actctgtggg ggctgtnatt cacactttan tatgaattgg 360
nttaatgacn actgtnatat tggctacata aagaaatgga cgtttttatt tggggttagg 420
ggatcacaga tgtggactgg cttaggtaga atggtccctg agcnaaggag atattgaagn 480
ttatgaggat gtgcaagata agcagattta cttttgcatt ttattttggg ctatctcagc 540
ttcttttact agaagctcat gcctataatc ccagcacctt gngaggccaa ggcaggagga 600
ttgctttgaa gccaggggtt cgagatcann ctgggcacaa anccagaccc tgactntcca 660
aggangattc aaagatttct gatggngaaa acctcggcct ntaaactatt ggggtcgttt 720
acggngatcc nganatgata anancatttt ngagtttggc caaaccccac n 771

<210> 4068
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4068
ggnnnnnngn nnnnnncngn ancancactc gnnagnaaag cccttcccan cgactcgaat 60
tcggcacgag ccaccctggt gctcctccct ctccctggta ccctgactac caggaagtnt 120
tgtgctagag cagctggaga agtgcaggca gcctgtgctt ccacagatgg gggtgctgct 180

gcaacaaggc tttcaatgtg cccatcttag gtgggagaag ctagatcctg tgcagcagcc 240
tggtaagtcc tgaggaggtt ccattgctct tcctgctgct gtcctttgct tctcaacggt 300
ggctcgctct acagtctaga gcacatgcag ctaacttgtg cctctgctta tgcatgaggg 360
ttaaattaac aaccataacc ttcatttgaa gttcaaaggt gtattcagga tcctcaaagc 420
attttaacct tgccgcttaa aacccaattt accgtgaaat gggaattttg ctgcattgtt 480
aaactgtagt ggaaaccatg ctatagtaat aaaggttata taagagagaa attgaaatta 540
aatgtgtttt taaatttcaa aaaaaaatca atctttagga tgactnaaaa attgatttgc 600
catgtaaaat gtatctgcat tttttacaca aaacttgntt taaagcataa aaatttaaaa 660
ctgnnctctt ggatgtatta tacattttga accatatgta ttaaaccata aacagtntaa 720
tggtggtata ataaaacagg cattaatttn ttaataaaaa aaaaaaaaaa actcggcctt 780
taaactt 787

<210> 4069
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 4069
ngnnnttnta tancagctct ngttntttat gcaggatccc atcgattcga attcggcacg 60
aggtccatta caccgccagc agcaatgtct tcctcggcca tggcagtggg tcacgggtgc 120
agcagtgcaa tgtcttcctc agccacggtt gtgggtcatg ggtgcagcag tgcaagacct 180
tcctcagcca tggcagtggg tcacaggtgt agcagtacaa tgccttcctt ggctatggcg 240
gtgggtcacg gacgcagctg aatcttgaac acacctgagc ctctgcctcc acgtgacttg 300
gcggtagcaa ggaatgaaca cagttatctt tttaaccaaa attttagatc atgatctcgc 360
tgtactcgtt gacagtattc aggtacttgt tgaagaatta atctctgctc ttctctgaag 420
tctgatttaa tcaccccact cagctgccag tgaaattggg ggtcatccat cgcatctcgg 480
atgtggctgg ctgtggctct tctgaaaagt ttctttcttc tgccttgttt ccatatttag 540
ggggaaatca gcaagattct agagtatgta tgtgggctgg gtgcaagtgg ctcatgccta 600
taatnccagc actctgggag gcttaagcgg gtggatcacc cnangccngg aatttggaga 660
acagtgtggg gcaacatant gagaccttgt ctnttccaaa ttaaataant taattnnncn 720
gggaaannnn nnnnngnnnn ntnnnnnnnn nnnnnnnnnn ntnnnnnnnn nnannnnnnn 780
nnnnnnntna nntanaact 799

<210> 4070
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4070
ggnnnttaa tcagctcttg tttttntgca ggatcccatc gattcgaatt cggcacgagg 60
atatgcttta gaattaaggt gagtggtatt atctctagtt tgagacaaag agaagcgaag 120
taacaaaagg ccacataagt gataaatagt ggacctggag tttaaacctg ggatccccac 180
ctaaatcaga aatacaaaat caaccacttt tttgatgatc cagggtctat gtatatttat 240
tacatgtatg tatatatgta tatatatatg catgtgtata tatgtacata catacatata 300
gatgtgcttg tactagtgtt tttcccacca gatagttagc ctttcttctc cccttgctca 360
ctttttttt ttttttttg agatgaagtc tcactcttgt cccccaggct agagtggaat 420

ggcacgatct cggctcactg taacctccgc ctcctgggtt caagtgattc tcctgcctca 480
gcctcccgag tagctgggat tacaggtacc tgccaccacg cctggctaat ttttgtattt 540
tcaatagaga cagggtttca ccatgttggc caggatggtc ttgaactcct gcctcagggg 600
gatccacccg cctcggnctc ccaaagtgct gggattacag gcatgancca ctgnacccac 660
ccaaggggna aaacttttat ttagaaaaaa cttaactttc actcgttaga aaaacgngtt 720
ttgaataatc taatttttaa aaatgcatta actatgtctt atnttggctn acacatttta 780
attgn 785

<210> 4071
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 4071
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gattgtgcat gacatacttc tcctttgtat tctctcagtg ccttacagca ggttactcca 120
ttctgctatg acaacttgtt tcaaatgtta atttacatag gatttttat aagccattaa 180
ggcatatgta tagtatatca gtaaagatgg atggtgcata tataaatagt cttctgtaat 240
agtgattgga tttacttctc aattatgaga gacaaaaatt atcccctcac ctgtctctat 300
tctttcaaca ggttgatccc ttttcatgat ttttcattag gtggttcagg aagtttccat 360
attacagcgc ttcagactgt atatgttagt ttaaaaatca cttttctctc tctcaacttc 420
tttctttttt ttttgaagac ttaatttaaa aaatttgggt tgttagatcc gtatcataga 480
tttggcctag cctcttctgt taacctagtc cacagatgag cgaatctggt tagttgaagg 540
acattgtgat ttgactctgg tcacgcgagg aagtagaagg gcaaagacag gaccggcagt 600
ttacatttcc agtggttaaa cctcacggga ctttgggacc tgcttggtaa ctttttgggg 660
gtggtctgga ggccaatcta acctggacca ttttctggnc ccctcaacaa gagagaggga 720
aagcaacctt gggccaatga ggagtaaaaa taaccttggg ctttcagaga tttgaagaat 780
agaagaactt ct 792

<210> 4072
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 4072
tgnnatctat gctggctctc gttcttttgc aggatccctc gattcgaatt cggcacgagc 60
acacttggag ctcatacaaa ctttttccca ggctattgtc tgttcttcaa gcccattcac 120
ctcccctaaa aatcatgtat tcttcctcaa aaattgncta ttatcttcca cttccctttc 180
ccccatgaaa agtgttgagg cttattctga gccaatatga gtgaccatgg cctgagaacc 240
caatatgagt gaccatggcc tgagaaccat ctcaagagct ccttcaacag ttgtgactga 300
gcttgtcang ttgcagtttg gttttatata ttctagggag acaggaatta taggtaaaat 360
cataaatcta tatntagaan gtntacattg gttcagccta aaggggtggg atatcttgaa 420
ggcanggtgg aggggatgct tacagatcat angnnaattc aaagattttc tgattggcag 480
ttggntgaaa gagttaagtt ttgtctaaan acttgaagtc antagaaaca aaaatgcttg 540
agtaaagata agggggggtng cgagggccaa ngtttttggt atgtnnatga agcttcatag 600
atcacagnct tnngagagna tagaagataa atgtctcttt tcagacttta aaaggttcag 660

actctcaggt taatctcttc tagatccaa 720
cattaatggg ggattcttnt tacaanaat. 780
tnccagaacc ccatttcaaa at 802

<210> 4073
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4073
ntntatnnag ctcttntctt tttgcaggat cccatcgatt cgaattcggc acgagac 60
ttaaatagcc cttgatgact tttcatgtgg catgagaggg atatgcttat aaagcttaa 0
tctgatatta tcctcttact acctacagta tgttttgcaa aaatcagtcc acttagcaaa 3
ctaatctttg taaagcagtc agtttcagaa gatacttttt atcaaaaaag atggcaggtt 360
taacattata ccttttggtt tttgcccaac atttgattta atctaaagca agaatataaa 420
ataattttaa gaagcatata atttcttttg ataaaaagta acaaaaattt aatgcagatc 480
aaagaccaag gcttgtaacc aaaacaagca aaaagaaact ttagctgttt aactatcacc 540
tctctaattt aaaatgcatg aaaattaata ctttgttttt gttttttttt ggaaacagtc 600
tcactctgtc acccaggctg gaggtcgcag tgagctgaga tcctgccact gactccaacc 660
tgggggtaac agagcgagac tctgtcttca aaaaaaaaaa aaaggtgtna tttggaaatg 720
gaaaatctan ggtaaaggga agctttnaaa aatgttggta ttttttttcc ctggnaaata 780
aaaccttttt attggaattt aaatggncct ttgggnaaaa aaggaacntc caccattgga 840
aaaaagggng ggccttttt tatttnttt tggggtaggg ggaatnaaaa aaccccctt 887
tgggcccnt tttnaaatan ccccnttngn cccaaaattt ggaaaagccc aatttttttt
ttaaaatgga angggttta ccctgggnaa atttgggttt taaaann

<210> 4074
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 4074
ggnnnnnncg nnnatttaga ccagctcttg ttnttttgca ggatcccatc gattcgaatt 60
cggcacgagg agtatttgct ggtgcattgg agagtttcac gtaattcttg tgcagattca 120
gcaagagagt ttgccggcat gctttgcaca gcccctggta cccagtaagg cgattattag 180
cattggtgct tgctggaatc agatattcca gaatattctg tcacagctca tcgntgccct 240
cttcttttct gtgggtaaac tgaggcagaa actcaggctg ggtggaactc tgcagcctca 300
gctggagacc tcgtctggcc aaggactgtg gggacacagg ccctntaggc tgccacctca 360
tggtcccagc atgagggcac cagaactgca cagaaagtct cactacccaa gtgtctgagc 420
caggccagac tgtgctagcc agacctgccc ggggttcatt cactgacctt tattgagcac 480
ctactgtatg cccagcccca aacctggctc tgctcatgga aaagaacttc agtggaaaca 540
ggtcctggga tgaacaangg cctggcctgg cctggtgatg ccactatttc tttaaagagg 600
gagagtggac aattcccgga tttattgtca gggggggagt cttcatttcc ttgctggtnn 660
taaccanaaa tacccacaag acttggggtc ntttttagaa aacccattag aaaactngan 720
ttttcgtacc ttgtttctag aagggttggg gaaagtcccc nngaatcaag ggtggccnag 780
ccagggntnt gggttgtcct gngaggggcc cactanattt gggnttccaa agaanggggc 840

ccccteettt t 851

<210> 4075
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 4075
tatncnagct ctcgttcttt tgcaggatcc catcgattcg tcttgactga ggttcccatc 60
tttcttantt ctcttaagga tgtgctattc tattctagat gcataggagg gaagntaatc 120
cagncttaga tcancagggc tgngttcttt ctcagaacca tacccnaaaa agcctnanta 180
gaattttagg aaagttctat ttagaaagaa actaagaatt atgattaagt tttggcctaa 240
gcaacttaat angcagnggt atcatttatt gngaagcaaa tnacataaga agcangttnt 300
ggggcttggg aggaggtaag ggcngaaagt tngntattnt tttttaaacn tgtntaatnt 360
gagacacctg ctagatatcc tantnaaatg tcatagacac ntnaatggtn cacaactttg 420
aaactcagag agaggtcann gctggatata aacagntggg agtcaancnt attttatatt 480
atttaaatcc anaagactgg atacggcaag ttnggaggga gtttcaatgg anaancaaaa 540
tttttgactc tgnggcactt aaacatttaa agntctgata aataggagag ggcccancaa 600
agggaaattt gaaagaacca atcatttacg gtanggagga aaaaacttag aaggggggata 660
aatatcttca aaaaatcaaa aaaattaatt ggcnttttttc aaagaaaaat nnaggnggnt 720
tanccccctg tggtttaaag gngnggttaa agtattcacc ttggaanaaa nanggttcaa 780
angggcaaag aaggcccaan ngggggccct ttttttaaag naaacttttt tccccn 836

<210> 4076
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G

<400> 4076
nnntntttnn antacacgct ctngttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgagcnaagc tgttttatan attanggaga ngagtgagga gagaggaata ggatagacna 120
aggtngagat agggancact ggagaagaan acctcanagt gaggcacagg aagaggtgtg 180
aangggaaaa gaagtggcan atgtnacgga agagcccctg nccatgagag anantggngg 240
gantggnaag gaagggaagt tatggggcat gggncacata gcacacaaca cnacagtaag 300
gctagagata tnaaanaaac aatgattctg agctncataa gtagcnatct cncgcttaat 360
agacataggg ngtanctgtg acatggcgtn anctacagna ctggacatna tcacccttttt 420
ntagggaagg agggatgcct gcagnggcct aactccanca ngttatcatg tgctatggaa 480
gtnctgnnca caatggnggc cnccantcat gtgtccaacn ttaaataagn ctgtcgtngc 540
tnaggaccta nnntgnaatc ttaatttcat tttaaaatnt aaatnttccg naatggangc 600
tcaaggctng cttcttttttn ggaaagtgtc ngaactgaat tgaaaccggn ttnnaaaaaa 660
aggattagta nccccctggtn tttccccttg tncgggggca ttaaagtnct tttaanccct 720
gggacccntc cccggtnggg ncccnttnna aaacncccaa aatcccattg gcccccattg 780
natttttttaa aaacaatttt tnaangntag naanttnttt gaaaaaaaat tgggaatttg 840
gggggncccn nt 852

<210> 4077

<211> 897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(897)
<223> n = A,T,C or G

<400> 4077
cgnnnnnnnn tnnnanggct ttgccactaa ctgaaaccct ttgnacccan cganncgaat 60
tcggcacgag gttgaaggta tgtgtcantt ttaaccaggt gttgagttat ttgatntttc 120
ctncanagat tatttaatag tttcaataat atctaatgat gtgtgggaaa ccgtaaaatt 180
tttcatacaa actgggacaa atgaacatgc atactattaa aanactncct acaatacggc 240
ataaaanggg ctttcttagg ngaaccagga ggtatagnca gcctaatcat nngctatgan 300
tattagtnat ggnaggctgt gttttatcac tcatatatgg aaatcttttt tgaatgacta 360
ctctggaaat gacgactgaa tctcatactg tgtacacacn tnatcanagg acacttaatt 420
gnattnanna anatannttt gaacttacct tgngttagag ggncagagag gttcatnatc 480
canaaaaatt atnatgtggg gctttnttcc tttgggaaan tgaccgntca cacnncaggg 540
catgtgtttc ttctnatacc ttcaccccan ggggcncttt ctctttnana aaaannnggn 600
gncatgaaan ntntatnatt cttncccctn cccnagtncn ttgntnttgc ttaaggnntc 660
nnccnnantg ncaaggtnna naaanngaaa aaaagaatnn tgggnaaagg caattntcac 720
aaacttntaa aaagccggnn atcntttgnt ntngggtaaa nctccccnnn cctantttta 780
anatnntnnn cnnctccggg gggggatatt nnnnggggcn ntntaanncn nnnnnanann 840
nnaagngatn ggnggngccc aannccaacg anntntttnt aaaanagngt aaaagcn 897

<210> 4078
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4078
ngnnnnnttg gatancagct acnggtnaat ttacttcctg caacgncccg aatncggcac 60
gaggttaggt tggacacaga aggggcaatc aaatttctgt attcagatac cttttaaagg 120
tacactgtgc caccttgctg cctttgattg caaatacaaa gttaattttc aaaaaggaaa 180
aacaaaacag ctctttttcc taaaacacat gttgtacttc agacctaaaa ttctaagtct 240
tatttgtttc tcacccatga gttagattta ggtaatagta ttagtagagt ccttagagaa 300
tcttaagagg tcatttactc cacctctttc attttaaatt ggggtatcca aagcctgaag 360
aggtggcctg gccaatattg accaaggtat aactaaatat gagctagcat cttcttcctt 420
cttctcgcta tcccttggct ttaaaagatt tagtacatga agaataatgc attagcaaaa 480
agctcctagt ttgtgtttcc cctttgtgtc tccctgttgg ctttctgaga caacctgaat 540
tttgccaaca aaatatcgca gagggattta tattaattat tttttagtta gatgaatatt 600
atattcttcc catccaaagt gagtgatttg ctaggtttgg ttagggaggg aaaaagcaag 660
aataatgtga gaagaatcta aatgcgaagt tgattttgtg tggnaaactg gttattagtt 720
ccatcaggaa tttctgnttt tatttttttga gctattgaga agtgcatgca gatttgaaaa 780
attagg 786

<210> 4079
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 4079
ggnnnnntnn nnnnnttnta tnnnagctac ttgttctttt tgcagggatc ccatcgattc 60
gaattcggca cgagggcagc agcagcagca gcagcagtgg tggaacgagg aggtggagaa 120
ttgagagcac gatgcataca caggtgtttc tgagtagtaa ttagatcgct gtgaaggaaa 180
aagcacacct ttgagttttc acctgtgaac actatagcgc tgagagagac agtctgaaag 240
cagaggaaga catcgatcag taacaccaag agacaccaaa gttgaaagtt ttgtttttctt 300
tccctctgtt ttatttttcc cccgtgtgtc cctactatgg tcagaaagcc tgttgtgtcc 360
accatctcca aaggaggtta cctgcaggga aatgttaacg ggaggctgcc ttccctgggc 420
aacaaggagc cacctgggca ggagaaagtg cagctgaaga ggaaagtcac tttactgagg 480
ggagtctcca ttatcattgg caccatcatt ggagcaggaa tcttcatctc tcctaagggc 540
gtgctccaaa acacgggcag cgtgggcatg tcttttgacc atctggacgg tgtgtggggt 600
cctgtcacta tttggagctt tgtcttatgc tgaattggga acaactataa agaaatctgg 660
aggtcattac acatatattt tgggaagtct tttggtccat taccagcttt ttgtaccaat 720
ctngggtggn actnctcata atacgccctg cagctactgn tgngatatnc ctggcatttg 780
gaaccctacc atttttggaa 800

<210> 4080
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4080
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gagcttgctt gaaatacaga atgtccagat ctactgagtc agaatttaca ttttcaaaag 120
cttcctacgt gactcatgca tattaaagtt tgggaagcac tgacttagat tacctttga 180
gaattccaga tgggtcagaa accagacaga aatactcagt agtgagaagc tatggtgtat 240
cagaagctgt taggcatttc atggtttggt agtgagcaag acagatagtt ttcctgtatt 300
cagcgactta gtctagagag agacaggatg gaattaagtg tttaggtgct agccaaaagt 360
aaagattcgt agaaaacaag ggttcatatc ccagtcatca aagtgataaa ttttccctgc 420
ttaacattta gattaaaaag taataattag gccaggtgtg gtggctcaca cctgtaatcc 480
cagcactttt ggaggctgag gtggacagat cacttgagct caggaattcg agaccagcct 540
gggcaacatg gtgaaacccc atctntacaa aaaataccaa agtcnggcac ggttggttgt 600
gtgtgcctgt ggttccagct acaccggang cagangcagg agaatcactt gagcctggga 660
ngcaaangtt gcaatgagcc aanattgggt ctttggactc tagccctggg cgacanggag 720
tgaaacagtc ttcaaaaaaa aaagcctnta aaactatagt gagtcgttta cgtngatcca 780
gacn 784

<210> 4081
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 4081
nnnnnnnttt atancagctc tngttctttt tgcaggatcc catcgattcg aattcggcac 60
gagcttggat gtatgtttta atatgtatac cttataattc tgcctctagc caaatgctat 120
gtttgcaaaa tgtggcatct gttagttttt attgtctgtg tcttctttgt ttactatacc 180
ttgggtaatt ttgtgttacc aaaaaaaaaa aaaaggaagt gtaatgtcag acacacaaga 240
aaagcaaatc agtgttgtaa gcttaaagta caatttcaaa ggtcattacc aacagcaggg 300
tttttttat actttaaaaa cattatgcta catatcattg ccattttcat attttggggt 360
tttgctactc ttatacaatg gaatcaatgg aaatgtcatc cagccactga attgccatta 420
ttatatctaa aaagtttcta agatgacagt tatcactatt ttgttttatc tccatgctga 480
catttgaaag aaggtctagt atcccctctag ccagattgct tagtttttcg ttggtaatca 540
aacaacagtt gtactaaagg aaagtaaagc taggacctaa atcagaatca tagttgcctg 600
catatatggt aacaaggncg tgtgcatttg ctttcacagt gatgagtgag aggatgagaa 660
naaattattt gacatttttc ttgtgggtga atagaanaca cctttctttt gtctttaggg 720
ttanggngga gatactaaaa aaacctggga tgtttatcct atcttaaatt ngggtgggag 780
taataaaaaa 790

<210> 4082
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 4082
ntatnctggc tactngttct ttntgcagga tcccatcgat tcgaattcgg cacgaggttg 60
gttgtcaact ttgcattata ccacccactt gtaatatctc tgccttgaag aggaaaaacc 120
aggaacattt cctagaatcc ccttcccgtt atgatcccaa gttaggatat gccagtgaga 180
ggtgctgttt tagtcccttt tgcctgctgt gacaaaatga cacagactgg gtagcttata 240
aacaacagaa atttatttcc cacacttctg gaggctggaa agtccaagat cagggtattg 300
gtagattctg tgtctggtga gggctcattt tctgattcat cgatggcacc ttctcagggg 360
tcctcacatg cggaattgat aacgcagatc tctgggatct cttttataag ggcactaatc 420
ccattcatga gggttctgcc ttcataatct aaccacctat caaaggcccc atttctagta 480
ccgttacctt aggggttagg atttcaacat gacctctggg gagatacatt cagcccatag 540
caggtactca caatagaata agaaggcaaa gcaaggaagc ttttattctc aggatgtggg 600
aaagcatcac ccacttctcc agtaagttgt ggncgttttc aatttctcaa tttcttcacc 660
agcttccact tttgcagttg tgtcagccaa tcaacgacag ctttccaaaa nttccgtgca 720
agtgcctgct tttganggca aaggnggnca taaaatngga agcttcttca ggctccttcc 780
acaatctn 788

<210> 4083
<211> 889
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(889)
<223> n = A,T,C or G

<400> 4083
ggnnnnnnan ngnnnttta atncttgcta ctcgttctnt ntgcaggatc ccatcgattc 60
gaattcggca cgaggaggaa gcatatacca cagaacattg gctggtcagg atatacaagg 120
taaaggacct ggataatcga ggcttgtcaa ggacataaat gtnacgtcca gctctnatat 180

gcttcgcact gagcacatca catttaggac gttgaagatt ttttttttt ttttaatatg 240
cannttgtaa gaacaaaact ggatggcatc anaattgnct ggaagttttg tcttgggcca 300
aatgaaatga tttttataat tctaaacagg ttaccaaatg aaatgtcatg gctttacttt 360
ggtcaattaa agggggggaat tttttttaaa aaantgaaat gctnacactt atntctgnaa 420
antatatnga aaatgnatac cntggngcct attgangntt ttggngggtc antttcnnnt 480
tacccnnccn ccaanttnga aactttnttn nttttggncc atcccacccc ttttgcnnng 540
gcnnttaant nacaaanttg ctttttttcc cntnaangtn tgggaaaaaa nactttntcc 600
ttnttncttt aaccccttttt cnccccngng gtttcttgnt taaaaanntt cctntnttaa 660
aaatagncaa ctcttttntt ttnttttnaa ngggntacca naaaaaaaaa aatagggggg 720
ggtttntaaa anatgggatt ggcccccnncn acngggaacc caattgggnt cccttnnaat 780
aaaaccttttt ttttnccaan atnaangggg gccttttteg cntcnantnn ngcggcttan 840
aaaaggggcn ntancccgtt gtttcttttn gggnaaatcg cancccttc 889

<210> 4084
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 4084
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gagaggggggc gggcccgtac gccgattcca tatgggcgcc ggcgcggagc gccgcggggc 120
agcgcggggt cgccatggct gagctgcanc agctccgggt gcaggaggcg gtggagtcca 180
tggtgaagag tctggaaaga gagaacatcc ggaagatgca gggtctcatg ttccggtgca 240
gcgccagctg ttgtgaggac agccaggcct ccatgaagca ggtgcaccag tgcatcgagc 300
gctgccatgt gcctctggct caagcccagg ctttggtcac cagtgagctg gagaagttcc 360
aggaccgcct ggcccggtgc accatgcatt gcaacgacaa agccaaagat tcaatagatg 420
ctgggagtaa ggagcttcag gtgaagcaca gctggacagt tgtgtgacca agtgtgtgga 480
tgaccacatg cacctcatcc caactatgac caanaagatg aaggaggctc tcttatcaat 540
tggaaaataa aagtttttgc cagtggccat caagggcttg agggcaagaa tatatttttt 600
attagggaaa aaaaaaaaaa agcctnttng aacttttagt gagttcgtat tacgtanaat 660
nccagacatt gataaggata catttgattg aggtttggga ccaaaccaca accttggaat 720
tgccagnngg aaaaaaaatg ctttttttt gtgnaaaatt tgnggaatgg ctatttgggt 780
tttanttggt aaaccaatta ttaagcttgc aaataaaaca aggttnan 828

<210> 4085
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4085
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ggttactttc tttctcacac aaaggaaaaa agagactatc tttagggaaa cactgcttta 120
aatcatcttc cttgaatatt aattctctgt tgcttcctcc aaaaatggag aaaataatcc 180
ctaccctcat aggcttatta taaggctcaa ttatgataat ggtgtgaaaa ctttgaaaat 240
tagacttcag agaaattgag ttaatctggg attatttatc aatgtcttag taaccaaaag 300
tttaaaatgt gttttgtcta ccaactggtt gcatgtacat ggttaatcca aaaggctcag 360

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cttttcagca aatggaaaaa gattaacttc tttatggatc acattatgag atgaaacaca     420
tttcattcta gctgctgaaa aaatagcaac atgtttttga aaccattgtg attttgtatt     480
gcagtcacta aaacatcaaa tatatcattt ttatgttaaa gtgccctaat ttgtgttgtt     540
acataaaact tggagtacct tggccaaata gaagaaatta atgtgccgcg tgtctgtttt     600
aaaagaatga aatctgagcc cagtgtgang ctcatgcctg taatcccacc cctttgggag     660
gcttgaggca nggaaaaatg cttgagtnca ngagttggag accancccgg ccacatangg     720
agacctttc tnttccaaaa aattaaaaaa ttgnccgnca tgggggggccc atgccgtgta     780
ggncccnct                                                            789

      <210> 4086
      <211> 775
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(775)
      <223> n = A,T,C or G

      <400> 4086
gnnnnnttcn aatactgntc ttgttctttt gcaggaccca tcgattcgaa ttcggcacga      60
gaaacagtct atacatgttc agtacagatg cagccatcca ttttcttgtc caaatatttt     120
ttatctccag ttggttgaat ccattgatgc agaaaccacg gatacggaga gctgactctg     180
tgtgtgtgtg tgtatactca ccaattcttt atttattcaa caaatattta ttgaatttct     240
actatgtgtg aagcatagtt cacgatcctg gggatatagt agacaagctc cttgccttat     300
tgagctcaca ttcttatggg gaagggcagg ttcagggcct tctcagatct ttgctgggca     360
tgcacacagc cctgtgcata tgctgctttg tggattccca caatgagctg aagcttttca     420
aagctcctag ggacgtacca ttctctggct tttccttttg agctttaggt tagccttttg     480
tttgccctaa tatcacccac tactcaggca ggaatgaagt caaacaattg tcttgaaata     540
ttttcaataa atgcctctgg agaaaagggt ttttattttt ttagccctgg ataagatcct     600
ggttagggta aataaangca gccttgcaag tgggggcttt ccnggaagca ccagacagac     660
aaataactac agtccatgag aatgaacttt gaagggctct naccccattc tgccttatta     720
agggntggca ngntcctggg ggtcancaag atgggggact ggttggcttt caagn          775

      <210> 4087
      <211> 770
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(770)
      <223> n = A,T,C or G

      <400> 4087
tnnnntttta atcagctctt gttctttttg caggatccca tcgattcgaa ttcggcacga      60
gggccagcgg atcgctgcga gtggccttga aggcagctgc tgcaggtgaa gagtaggcgg     120
cggggcagag agcggcctcc gagggtcacc tgaatggttg agcatggacc ctgttgctac     180
ccacagctgc catctgctcc agcaactgca tgagcagcga atccaaggcc tgctttgtga     240
ctgtatgttg gtggtaaaag gagtctgctt taaagcgcat aagaatgtcc tggcagcatt     300
cagccagtat tttaggtggg tattttagac ttcattctcc tagctgtgaa ttaagggtaa     360
agctctttta gtatggaagt attcatattt tgttctcctt ggatttcact atctttatct     420
tttatagcac attggatttt gtaggagttg ttttaatttt taagtttgtt aaccattttt     480
attatttttg cttttgngtt tagagtaacc tgaaaagaaa agaggctctt aagtaaaatg     540
aatttgggat gactgaaagt attttgggtg nttggctttc attttactaa ttctggctaa     600
tgtcannctt ctacatatat ttcttatcct ttcaagaaaa aatgatgggg gaattaaatt     660
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nccngtcana aattttnttg tgataanaaa tcaggggaaa aacatatttg ggggtggant 720
tctttntttt tttcttaant aaannnttta nttttggntn tnattnnaaa 770

<210> 4088
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4088
taaanccgct cttgttcttt ttgcaggatc ccatcgattc gaattcggca cgagagggaa 60
aatatgacaa acctcaacta tgggagttgt ccacaataca aaattttgaa aaaacattac 120
atagtgataa tatcatactt ggttgttagg cttgttgctt ccccacatca gaggcatcta 180
atgatttatc ttttgtaatt gctgtgaact tttttaaata agccatttag tgtgaaattg 240
tcatgtatca aatggctatt ggaaatggac tttactcaat tttaattcca ctgtaaataa 300
ggacggagtc attcctacaa ggctctcttc agagaaatag attaaaagtc caatttccag 360
gtattattag tatagttatg ccgctgggcc acatcctcaa caacagctga tccctcttgt 420
ataaatatgt taactgtgca gaacagttat gttatgggac aaatataatg gtcattatgg 480
tcagattggt tgatgccaca ccagtcaagg tagagtctga tagggcagta tcttaataac 540
cctcccatga cttaactgtt ggatttgaaa ggaaaacgta ggatttgctc ttgnccccctt 600
cccccacaaa attttgataa tttgtttaaa aagggagang cngaggaaaa gactngaacc 660
ttaaatngct gctttanggt ttgccagang cccatactta acattagttc ttaaaattcg 720
anggtatttt actaatgnaa ttaatcaaca gagccccnag gantttttta tggn 774

<210> 4089
<211> 844
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(844)
<223> n = A,T,C or G

<400> 4089
nnnnnnnnnn nttntatana tacagctact tgttcttttt gcaggatccc atcgattcgc 60
ttgttttaaa gataattgct agatttatgt tttagctttc cataaaatgt aataacataa 120
aataaaatat aaataaaata tgaaataaaa taaaagccat ggggaaaagg tagggtttga 180
ttgctaataa gaaatttctt ggaaaagaga ctagctctct tttggttttc caaagtccac 240
attttataac atttttagtg cttggtgttt gcttgtggta ttacattaga taaaaatgta 300
tcacagtgtt ggtttatact ggatgtttaa ataggattca ttgaaagggg tgtgttttct 360
ttctgaggaa tacttactca gcattttctt cagaaagtta cttgctgcta atcctttatg 420
gaggctctag gggaacatca ttttcttgcc ttttccagct tctacaggct gtccacatcc 480
tcagctagtg gccccttttc atccttttt ttttttcttga attatgagat tttttgtact 540
ttgagttctg ggatacatgt gcagaacgtg caggtttgct acataggtat acaagtgcca 600
tggtggtttg ctgtacccat caacctgtca tctacattag gtatttctcc taatgctatc 660
ccacccctag ccccttaccc cctnacagtc cccggtgtga tgttcccctc ctgtgtccat 720
gtgtgctcat tggtcaactn ccacttatga ntgagaacat gcannggttg ggntttctgg 780
tcctgngtga agttgctgan aatgatggnt tccagcttta ttcatgtcct gcaaaggaca 840
tgaa 844

<210> 4090

<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4090
gnccttttga aatcccttnt aacncaaacg cttggcaaac nccctttctn cangcanccc 60
ntgcgntncg aattcggcac gaggccaaat gccggaattt aaaacctggc ttntaaaaag 120
aatgattttg aacaaggcga attatatttg agagaaaagt ttgaaaattc aattgaatcc 180
ctaagattat ttaaaaatga tcctttgttc ttcaaacctg gtagtcagtt tttgtattca 240
acttttggct ataccctact ggcagccata gtagagagag cttcaggatg taaatatttg 300
gactatatgc agaaaatatt ccatgacttg gatatgctga cgactgtgca ggaagaaaac 360
gagccagtga tttacaatag agcaagattt tatgtttaca ataaaaagaa acgtcttgtc 420
aacacacctt acgtggataa ctcctataaa tgggctggtg gtggatttct gtctacagtg 480
ggtgaccttc tgaaatttgg gaatgtaatg ctttatggtt accaagttgg gctgtttaag 540
aactcaaatg aaaatctttt acctggatac ctcaaaccag aaacaatggt tatgatgtgg 600
accccagtcc ctaacacaga gatgtcttgg gataaagagg gtaaatatgc caatggcgtg 660
gggtgttgtg gaaaagaaca aacgtatggt tccgtgtaga aagcaacggc attatgcttc 720
acatactgga ngggcantgg gtgccagtag tgtcctctgg tcctcctgaa aantgg 776

<210> 4091
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4091
ngttttaaan atacagctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggaatgga gttccacctg ggctgtttta ttaactattt gcccctccgt ttcttcatct 120
gtaaaacaga aatgataacc ttactattaa ttgtgtgacc ttggacaagt tacaacatct 180
ccctgggcgc gattgtccca tctgaaggtc ataatagcac ctgccacaga ggatggtagt 240
aaggattaaa ttagttaatc catgtaaatt acctaggtaa gtgcctgcca tatagcaagt 300
gcttggtact ttttttaaa aatcactggt atgactattg cagacacctt tgccatgatt 360
ggaatagctg gaatccaaac tcaagccttc catttccagg gttctggctg gtgtggggct 420
gacagacctg gatggggatt cccagctctg cctctcttca gctgagcaag tcactggaac 480
ctctctgagc tgcattctgt tcagctgtaa aataatagtt tgtactttgc aggggtgttg 540
taaggcaatg gtctccagcc tttttggcac cagggaccag ttttgggggа agaaaatttt 600
tncatggaca gggntgctna aggggatgtt ttnaagctcc catgaggatt taatgcggcc 660
ggccccggng gcttacccct gtaatcccaa nacttttgga agcccaagtg ngccggatcc 720
ccaggtcagg gaaacgagac cntcctggta acatggggaa ac 762

<210> 4092
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(762)
<223> n = A,T,C or G

<400> 4092
ngtcatttgn tngatacagg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggag gagttaaatt ttgaagctct ttgagaaagg tacctttttct taacatgttt 120
taaaaataaa aatacaatgg cttatttaaa atgtccctat gcatggtgaa atgttaaata 180
ccaagtggat gaatggttct caaatatatt gtaatggaga attattcaca tgcatctatt 240
gtttaaacta ataagtaaaa tagacttcct ttttctgttc tgttttaaat gtgcactaaa 300
attacctgct tgtggttagc atgggctgga cagtttattg atttttcaga agaatgcttg 360
gctttgggtt tttggcaata gggagcctgc agcaaattat ttcatttgac aaaaaagagt 420
tattttaatc ctatttgaat gtatgctatc tcctttaccc tccccatctt atgataaaag 480
gtctctcttt tttctcttcc aggtttgcag ctaaaactgt gcacagtggg tcattgatgc 540
tagtcacagt ggaactgaag gaaggctcta cagcccactt atcataaaca ctgagaaaac 600
tgtgattggc tctgttctgc tgcgggaact gaacctgtcc tgtctcangg gtaacctgct 660
tacatctgga ctttanaatc tggcacacaa caaaagtgcc tggcatcact actgntgcct 720
ttcatttata ataatagccc ttcctcttgc agtgggggta ga 762

<210> 4093
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4093
ggnnnnnngt ctttcaaatn ctaggctact ngttcttttnt gcaggatccc atcgattcgc 60
tcaagtncca ncacaccggc gccgtcctgg actgngcctt ctacgatcca acgcatgcct 120
gnagtggagg actagatcat canttganaa tgcttgatnt gaacactgnt cnagaaaatn 180
tngtngggac acatgatgcc cnnntnanat gtgnngnata ctgtccaaan ctgaatntna 240
tggtcnctgg natntngnnt cagncnnata aactgcngga tcnnncanct tctngnaatn 300
cnnggaccnn nnctnngccn gaatangtgt ataccntctc nangtcttgg agaccgncng 360
gttgtggnna cngcaagnct gccnnngntt actnccatnt tangccaaca tgggtatncc 420
antcttgttg gngatanacc atcctgccnt accngacttg atgngttcga gnntnngcaa 480
actnnnnngg cttggnatta agctgnttag aangccaagn nnattctgan aatntggacc 540
tgngccttng ggccataaaa aagcgnatgn cnntttctnn ggccaaacna tgataacctg 600
attnccatcg atttcaccct tganaatggc ttcanntnta aactnaatac ncaantnntt 660
atcntcaang nggaccgnna acgcttngng aanctttttg gggggnncan tnttgcaaaa 720
cnngaaangt gcccatttaa anccaaactc gcaattgngc aanttnantt caattgcctn 780
gaataattgg agang 795

<210> 4094
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4094
natggntttt nannatacag ctcttgttct ttttgcagga tcccatcgat tcgaattcgg 60

cacgagacag agcgagcact ccagttcaaa aaaataaata aaaattaaaa aataaaataa 120
aataaaaaat ttactaggca tccagcattc attaaggaga ataattcagt taaggaggaa 180
aagaattctg ggattctggg aatttcctta accaataaag agtatgtgtg agaaacctac 240
tgctaacatc atacttaatg gtaaaagtcc aaagatcagc aaaaagagga tacctggtct 300
aaacacttcc actaagcatt atactggaag ttctagctag tgcaataaat gaaagaatac 360
aaagtatcca gattggaaag gaagtaaaat catctttatt aacagattat atgattgtct 420
atataaaaaa aatctgaagg tatctacaac actattagaa ctaaatgagc ttagtgagac 480
tgcaaaataa agatcaatat atataaagca gatgattttg catgactagc catgaacaat 540
ctgaacctta aaaccttaaa tgccatttat acaccatana caatatgaaa tncatagtga 600
tgcatctggc aaaagaagtg caagatgtat agtataaaaa ttaaaacact ttgggagaac 660
tttaaaaagc ctaaatgaga ttactatgtc agagactcca gactcatacc ataatatgca 720
atcttccacc tgcctaagat cagtgaatcc 750

<210> 4095
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4095
gnnnnnnnng ntttnttnca gctacaggct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagaggac attctcctac atagccgtat attctcatta tacccagcaa 120
atattcaatc atattatcta aggtacactc cacattcaga aaaaaaaatg ccctttacca 180
tagtttttgt tttgcttttg gttttgatca aagattacag gtgtgagcca ccgcaactgg 240
cccactgtgt tacgatttga aataaaaagg aacctgtcaa gtacccagag aatatcagaa 300
ctgctgtccg atctcctgaa attgaaatta atttcctcag tgactcaata cccactgcca 360
ctcactcaag ccctgcaagt tcaagccaaa tcatcctgcc accacaggaa tctgatgggt 420
cacgctgctg cctactgaaa atggggattt gggttagtga taaaataggt taaaacacat 480
aaaataggta aactagggta aaatacagta agaatgggtg agaggagaga aaaagaaact 540
tcantttagg aagcataata ctacttaaaa tttcctgaga ataaatttgn cttctagaca 600
acacanagna nnntanncnn nnnncnnnnn nnnantnnna aaaaagcctn taaactntag 660
gagtcnttta cgnaatcccn acntgtnaga tncttgatga nttggacaac ccacttgaat 720
gcagngaaaa aatgcttttt gngaaatngg agctttgn 758

<210> 4096
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 4096
gnnnntttn aanatacagg ctacttgttc tttttgcagg gatcccatcg attcgaattc 60
ggcacgagac gggagctagt gacggcattt ctacgatcct gaagatcctc gtctccgggg 120
gcggcaagtc acggacaggt gtgatgatcc ccatcccaca atatcccctc tattcagctg 180
tcatctctga gctcgacgcc atccaggtga attactacct ggacgaggag aactgctggg 240
cgctgaatgt gaatgagctc cggcgggcgg tgcaggaggc caaagaccac tgtgatccta 300
aggtgctctg cataatcaac cctgggaacc ccacaggcca ggtacaaagc agaaagtgca 360
tagaagatgt gatccacttt gcctgggaag agaactcttt ctcctggctg atgaggtgta 420

ccaggacaac ntgtactctc cagattgcag attccactcc ttcaanaang tgctgtacna 480
natggggccc gagtacttca tcaacgtgga gctcgcctnc tttcacttca cctncaaagg 540
nctncatggg ccnatgtggt tacanacgag gcttcatnga ggnnaatcaa cctgcccctg 600
anatcaaggg ccanttggtg aaactgcttt cggnnctcct tgtgccccnc aatatntggt 660
caaggccgcn ntggacattt ttngtgaacc cccttggcca tgcctnaact tcaaaacaat 720
tnaaatgntt ttttttttgg nnncaaatta naacctnact tantttgcc a 771

<210> 4097
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4097
gnttaannen tnatacagct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgaggctgc tgggcctgga agtccaggtg gggccactcg ctaattctca tgtgttgctc 120
cggcccctcc agctgcaggt gggtgtggag tttgaggcca gcacaaggat gcaggacacc 180
agcgtctcct tcgggtacca gctggacctg cccaaggcca acctcctctt caaaggtaaa 240
ggtctcggtt cccctacgcg ggaaacaggc aggaggtgac tcaactctga gtggatgtgt 300
gggccaccac aggtgctgga ggacagtgtg ctgccaccct gtgggcctcc acattaccgg 360
ggaacacttg ttaaaaggta ggtggggccg ggtgcggtgg ctcacgcctg taatcccagc 420
actttgggag gccaaggcgg gccgaggtaa ggagattgag accatcctgg ctaacacggt 480
gaaactccgt ctctactaaa aatacaaaaa caaaattagc cnggtgtggt tgccggtgcc 540
tatagtccaa ctactgagct naagcnggaa aatggtatga acccaggaag cggacttgcg 600
gtgaacccag atcgtgccac cgacttcaac ctgggcgaca gacaagaatt catttnaaaa 660
aaaaaaaaag tagtggacaa ccctntacta tgtttatctt gggaaaaaaa agtnggtnna 720
acggncaagc cttgtgaata accctgtaat nccaacn 757

<210> 4098
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4098
gntttananc agctnntagc tacttgttct ttttgcagga tccctcgatt cgcaaggatg 60
ggcgcatccg agaaggagac cgcattatcc agattaatgg gatagaggtg cagaaccgtg 120
aagaggctgt ggctcttcta accagtgaag aaaataaaaa cttttcattg ctgattgcaa 180
ggcctgaact ccagctggat gagggctgga tggatgatga caggaacgac tttctggtgt 240
tggatgtcaa tgatgatttt tctgaggaag taaccaaaca agaagacctc atgagagagg 300
taaacacctt tgtaaagaat ctgtaaccaa taccatgatg ttcaggctgt gatctgggct 360
ccctgacttt ctgaagctag aaaaatgtng tgtctnccaa ccacctttcc atccccagcc 420
cctctcatcc ctggagcact ctgccgctca agagctggtt tgttaattat ngttagactt 480
tgccattggt ttcttttgtc ctgaagcatt ttgaaaataa agttacttaa gttaaaaaaa 540
accaaanaaa nactcgagcc tctanaacta tagtgagtcn attacgtnga tccaganttg 600
atnagaaaca ttggtnagtt nggnaaccac aacttgaatg ccncggaaaa aangccttat 660
ttggtaaaat tgtgangcna ttggtttatt cgtaaccttt ttaaccggcn ttnacaagtt 720
aaccacnacc attgctttna ttttatggtt tagggtcncg gg 762

<210> 4099
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 4099
tgnnnnnttn anaancagct cttgttttnn agcangatcc ctcgattcga attcggcacg 60
agcagccttg gtgacagagc gagaccctgt ctctaaaaaa taaataaata aaatattgtg 120
agtctctgat ggggagcagt attgcatggt ggttgagaac tgaggctctg atgttagaac 180
tggattctga cttaacccac tgtttgccca catcttgagc cttggtttcc ctatctgtaa 240
aatggcagta ttctcgggct ggctgaggaa aggaaatgag gccaggcgcg gtggctcagg 300
cctgtaatcc cagcactttg gcaggctgag gcaggtggat gatttgaggc caggagtttg 360
agatcagcct gaccaacatg gcaaaccccc gcgtccacta aaaatagaaa aaaatagctg 420
ggcatggtgg tgcacccctg tagtctcagc tacttgggag acagaancag gagaattggt 480
tgaacttgga aggtggaggt tgcantgagc tgagatcgca ccactgnact ccatcctggg 540
cgacagagca agactgtctc aaaataaata aatnaataaa taaatnaagt tcaaaaaaaa 600
aaaaaaaaac tcgagcctnt aaaactatta ntgagtcgta tnacgtagat cccagacatg 660
ataaaaatac catttgatga agtttgggac caaacccccn ccttggaatt gccggtggna 720
aaaaaaatgc ctttttttttg gggnaaaatt tggggangcc ttttgctttt aattttgtaa 780
acccatttnt taaagcttgc caataaaacc aanattna 818

<210> 4100
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(821)
<223> n = A,T,C or G

<400> 4100
aanncnggct actngttctt tttgcaggac ccatcgattc gaattcggca cgagatccaa 60
ctgtggcttc tcccaggacc attacacttg tatctaaata cctacttgac atcttctttt 120
ggatactgaa taaagatctt gaacaaacaa ataaaaacag taggttgttg atgcatgtta 180
ctttgcccaa tagatatatt ctatcagaat gtgatttgta tatataatat gtttacatat 240
taaattttga ttcaattaaa attctccaca ggggagattc tgtggtaagt tctttcgtaa 300
atgaagtaat tattctagtg atttaagttc atgttacttg tactttatgc tttattattg 360
atgtgttatt atgcagtatg cttatttgtg ttttattctt atgttattta ctcttgtttc 420
tgattgatct ttcatgaagc tcctaatact ctgtccatag aagcacagct ataatgatat 480
ttacatatgt aaggaagact acaaatattt cttcttttga ttcatttttg gtgattatct 540
ccttggcaga cataaaagac tgatgtggtt tggctgtgtc cccacccaaa tcttgaattg 600
tagctcctct aattctcacg tgtcatggga gggacccagt gggaggtaac tgaatcatgg 660
gggcaggtct ttcccatgct gttctcctga tagtgaataa gtctcacgag atatgatggt 720
ttaggaatgg ggagttcccc tgggcatgct ctctctcttg cctgccacct gtagacgtga 780
ctttgctctt ccttcgtttn tgccaagatt ggngaggcct c 821

<210> 4101
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 4101
tgnnnnnttn anaancagct cttgttttnn agcangatcc ctcgattcga attcggcacg 60
agcagccttg gtgacagagc gagaccctgt ctctaaaaaa taaataaata aaatattgtg 120
agtctctgat ggggagcagt attgcatggt ggttgagaac tgaggctctg atgttagaac 180
tggattctga cttaacccac tgtttgccca catcttgagc cttggtttcc ctatctgtaa 240
aatggcagta ttctcgggct ggctgaggaa aggaaatgag gccaggcgcg gtggctcagg 300
cctgtaatcc cagcactttg gcaggctgag gcaggtggat gatttgaggc caggagtttg 360
agatcagcct gaccaacatg gcaaaccccc gcgtccacta aaaatagaaa aaaatagctg 420
ggcatggtgg tgcacccctg tagtctcagc tacttgggag acagaancag gagaattggt 480
tgaacttgga aggtggaggt tgcantgagc tgagatcgca ccactgnact ccatcctggg 540
cgacagagca agactgtctc aaaataaata aatnaataaa taaatnaagt tcaaaaaaaa 600
aaaaaaaaac tcgagcctnt aaaactatta ntgagtcgta tnacgtagat cccagacatg 660
ataaaaatac catttgatga agtttgggac caaacccccn ccttggaatt gccggtggna 720
aaaaaaatgc ctttttttttg gggnaaaatt tggggangcc ttttgctttt aattttgtaa 780
acccatttnt taaagcttgc caataaaacc aanattna 818

<210> 4102
<211> 845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(845)
<223> n = A,T,C or G

<400> 4102
gnnnnnnnnn tttntataga tacagctact tgttcttttt gcagggatcc ctcgattcga 60
attcggcacg aggatacatc caaatattat tcatgttata gtaaatcaga tgaagccttg 120
agcttctcag cagccacgta aggcttaaat atgagggaac aggggctctt agaagtgaag 180
tgacttctga aagatgcaca gagaattagg aaagagtctg aattcaaccc tggaaccctg 240
actttcaggt gagtgcctgg cccactaaag aatgacaaag ccatggggag tggcatggaa 300
agcatgagct ttggagttag acaggcctgg gtgtgaatcc tggtcacccc agttctgtta 360
aagacctcag aaaagttacc tagcttcatt aagcctgttt cttcagccaa aaattaatgg 420
tgttaacgct tacctctcag gatgggggtc acaaataaat agaacgacat aaagtacata 480
atacatcaat cagttaggat gtatttggct acaggcaaaa gaacagccct cctcaactgg 540
cttaaccaac aattaaccta ttatcttaca taaaagggag tctagaagta gggatgttcc 600
aggtttggct aatccagcag ctcaaccatg tcaacacaga ccgggttttc tctgtcttgc 660
ctttttgcca ttctcagtgc tttcatgggc tccctttatg cttgcaatat gccagctgca 720
gcttcagaca tcaacttntc acatacctat gtccagagca gaagaaggac atttctcctt 780
gngcatttct actggagact aaattttcct gcctggcaaa aaaaaaaaaa aaaaaactcg 840
nnccn 845

<210> 4103
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)

<223> n = A,T,C or G

<400> 4103
actacagcta cttgttcttt ttgcaggacc catcgattcg ccacactgct gttctcatga 60
tactgagttc tcacaagtcc tgtttgtttt ataaggggct tttccccctt ttgctcaaca 120
cttcttcctg ccatcatgtg aagaaggacg tgtttgtttc cccttctgcc acgattgtaa 180
gtttcctgag gccttcccag ctatgtggaa ctgtgagtta attaaacctc tttcctttat 240
aaattaccca gtcatgggca gtcctttaca gcagcatgag aatggactaa tacactcctc 300
aaatgttttg aagattgttg caccttggaa ctaccagtgt gcacacaatc tggctcaatg 360
tatatattgg cccagcaagg caaagaactg aagttccagg atggaagaac ctgtgttctc 420
ctcataatag tatagaataa ttcaagatag gcaagaagga cagcagtaaa tgaagaccat 480
ggaagaaaag aaggaatgcc aaagatcgag gaaatctacc aagactagta gggtagtcca 540
gaagaagctg tttcagggcc tgttgccagc tatgcctttg agaacctcgg gatcccaaag 600
aatgagggga atttcttcag aaagacaatc tcggcatgca ttatttcttt ggtttgaaga 660
ttcactcatg ttgcatgcat ctgtagcttg tgccttttt attgcctagt agtattctgg 720
catatgccta tcttacaatt tgattatcta ttcacctgtt ggatgaatgt ttgaattttt 780
tccatttgag gaatttatga ataaagctgc tnttagcatg aaaaaaaaaa 830

<210> 4104
<211> 844
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(844)
<223> n = A,T,C or G

<400> 4104
nnnnnnnnnn ttntnaanat acagctactt gttctttttg caggatccca tcgattcgga 60
gaatcatgac tgctggctga agcctgcatc tttgggtaaa cagggcaatt aattcccaga 120
gaacaaggac atcatggata gttaaggcaa ccagataggt gcttatcctc taggtctcca 180
tccaaaatgg agtaatgaca cctactttcg tgttttaaga tttaaacgca gtaacatatg 240
taaagtgcag agtctgatgt tcgagtccac aacgatgtaa ataatgcaaa accagtggat 300
tactcatgct taatttatat tttacttgga aatttatttc ctttttcttg gttatctctc 360
taaataaggt aacttttta tacattttct ttttatatgt atttattctt tttttttgt 420
gacggggtct cactctgtca ccaaggctga aatgcagtgg tgcgatctca gctcactgca 480
acctccactt tccaggctca agtaattctc cagctactca ggaggctgag gcaggagaat 540
cgcttgaact cgggagatgg aggttgcact ccgtctggat catgccactg cactccagcc 600
tgggtgacaa agcaagactg tcttaaagaa acaaaacaaa actacaaacc aatttgtttt 660
aaagcatgtt ttttctctgg taaagaacct tncagtgagt aacacaggac ataaatttac 720
tatggtaatt aagtcgtttt tatcanatgg nattattaag ttggttttat caagtggnat 780
taaaggattc atttgtttac agtattattc aacacnaatn ggaggataat tacaattcct 840
tatt 844

<210> 4105
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 4105

gnagngtcnn ntttctaatg ctgganactc gttctttttg caggacccat cgattcgaat 60
tcggcacgag ggtacacgaa gaggtgataa tgacagccac caaggagatt tggagcccat 120
tttagaggca tctgttctat cttcccatca taaaaaaagc tctgaggaac atgaatacag 180
tgatgaagct cctcaggaag atgagggctt tatgggcatg tcccctctct tacaagccca 240
tcatgctatg gaaaaaatgg aagaatttgt ttgtaaggta tgggaaggtc ggtggcgagt 300
gatccctcat gatgtactac cagactggct caaggataat gacttcctct tgcatggaca 360
ccggcctcct atgccttctt tccgggcctg ttttaagagc attttcagaa tacacacaga 420
aacaggcaac atttggacac atctcttagg ttgtgtattc ttcctgtgcc tggggatctt 480
ttatatgttt cgcccaaata tctcctttgt ggcccctctg caagagaagg tggtctttgg 540
attatttttc ttaggagcca ttctctgcct ttctttntca tggctcttcc acacagtcta 600
ctgccactca nagggggtct ctcggctntt tctctaagta agtatctgta aagtncatat 660
ttttggccaa tgattnanag gttagtgcnt taggggaaaa aacattcncc canantttgg 720
catgaattct ttaataatna ttctaatncc cnccttnann ttttnaaaan aanttttnna 780
cacnaaaccc cagatttgnc ttntttaanc atttnnttnn atttncnnan aganccncca 840
agntataaat tcggggaana cnaaaatngg ttcaatttnn t 881

<210> 4106
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

<400> 4106
tttnnataca gctcttgttc tttttgcagg gatcccatcg attcgaaaag gtgaatgcag 60
aggcctggcc cagaccccag ccctgtgtgt caatacaact tttcacgttg ttacatacac 120
attttccagt ctgtgtctcc ctctgaaaga aaccctgaaa ttcaggttgc taatagattg 180
ttggttgcaa gtatgaagga cagaggaggt aagagaggag gcaacttgct aatgcaaaag 240
cagtgtactg aaagtcactt ttatttctta tttataatct acatgcacac tctggataat 300
agatgacact gctcattcag tactttaact tcaaagcaga gagaagccat ggatgacaga 360
gccgggagcg ggaatacaaa ggtactaaca acaagaggaa aaatgcctgt ttacgggatt 420
gcatttgtta gcacgctctc ttcagatatt gttcccccag gaatagcgaa aatatgtgca 480
gcgcgaacaa tgatttaaca tctgaaaatg gtacttaaag agtttctgtc tggtagtaat 540
gtgatggagg cttctgaagg gaacctgggg acttcatttc ttctatttat ctatatgtct 600
ctctggtttt agtgagcggt aattgcatat ttaacccctc aaatagcttt aaccctnacg 660
atgccacttt ttaccctgta taaaatgtac ttttatccca gcaaaggcag actcagaaat 720
tnccttaccc aaaaaattat ttaaaaaaaa aaaaaaaaaa cttcgagcct tttanaactn 780
tngtgagtcc gnnttacgta gatccngacc ttgatnagga tccattgatg n 831

<210> 4107
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4107
gnnnnnnnnn tttnnaactt tgctaatnct tggctactcg ttctttttgc aggacccatc 60
gattcgaatt cggcacgagg cctctgtcct gaacttttta acccggtgcc acaacccgag 120
ggtctccata ggggcaggta aacggggatt ttaatcattt taagtgtctt agaatgatat 180

tttgggaaaa agcactcctt ttcctaagga ctgcgactcg gtgaacagaa aggaggctat 240
gcggtgtggc cagccaactc aaggaggacg aagcaacctt tgcctctaaa ctgcctggaa 300
ccaaatgtcg atttttctga ccccctcccag ggagtgctga gtagtgatgg tgtctggagg 360
gtcaaatcca ttcccaatgg caaaggttcc tcaccactcc ccaccgctac aactccaaaa 420
ccactcatcc cagtgtttgg ggcactgtgt tcctcttcgt ccctgcacca gaccctggaa 480
gccttggcca gagacctcac cagactcgac ttgcggcgct gggccagctt catggatgct 540
ggagtggagc acgatgacgt agcagagctg ctgcaggagc tacaaagcct ggcccagtgc 600
taccagggtg gtgacagcct cgtggactaa agttcccagt gtgggagaaa ggagctagtt 660
tgcaataaaa acagctggat gcaaaaagcc tctagaacta tagtgagtcc gtattacgta 720
gatcagacat gatnagatac attgatgant ttggacaaac cccactngga atgcantnga 780
aaaaaatgct ttatttgtga aatttgtgat gctattgctt tattgtaacc attattaagc 840
tgcaatan 848

<210> 4108
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

<400> 4108
gnnnnnnnnn tttnaacctt nctaatnctg gctactngtt ctttttgcag gatccctcga 60
ttcgaattcg gcacgagaga aaccagnatc acacaggaat gactgggatt ttaggcctgg 120
aatgtacctt taaaattatc ttattacaca ccatccttca tttttctcat tttcctcttt 180
tgggattcat atattaagta ttagggcatt aaaacacaac tgtatatata aagaaaaata 240
taaagtaacc acacatgctc agggaaagac acaggctcag aaaatgcctg agaagaactt 300
agtttcacac cccaggctga tcctaagcac cgagacagcc tacaacaatc caaaaaacaa 360
aaacaataaa taaaaagtaa caaacaacag caaacctaag agaatgacga aaatataatt 420
tccagaatta ccactttatt agagtcaaat gtccagtttt taataaaact cagaagcata 480
caaagaaaca ggaaattatg gcccatcaaa ggatcaaagg aaaaaaaaat gaatggaaac 540
tgtactgaaa aagacatgat ggcagatata ctagaaaaat actttaaaat actgtcttaa 600
tgatgcttta aaaactagag gaagatgtgg aggaagtcaa gaaaatgatg tacaaacaaa 660
acagcaatat caataaggag gtagaaaact ttaaaaggaa acaaaaaaat tctagagtgg 720
aaaagtncaa tactgaaata aaatattact agtaggattg aagtcatgtt tggaataggc 780
aaaaaaaaaa annnnnnnnn nnntnnaaaa aaaaactngg ccttttaaac tttnggggtc 840
ngtttacct 849

<210> 4109
<211> 835
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(835)
<223> n = A,T,C or G

<400> 4109
tannccngct cttgttcttt ttgcaggatc ccatcgattc ggtttggcag tctctgaaaa 60
tatatacctg ccatatgatc cagccagttc actgctacct agtttcccaa aagaaatgaa 120
aatatatgta tatgtgaata ctcatatact aatattcata gcagctttgt ttgtaatgga 180
caaaacaacc caaatgtcca tcaacgttgg aatggaaaca acccaaatgt caatcaacaa 240
gtgaataaac aaaatgtgct atacgtatat aatggaatac tactcagcaa taaaaaggaa 300

tgaaaggaat gaactaatga tgcatgcaac agcatggata catctcaaaa taattatgct 360
gaatgaaaga agccagacag caaaaatttc ctactgagtg attccattta tataaaaatc 420
tagagaatgc caattagcct ttagtgaaat aaagcagaac agtaattgcc tgtgacaggg 480
tgggaaagat ttggactgga agcagggatt accaagaggg gtgagaaaac ttttgaaggt 540
gatgaatatg tacattgtct tcattgcttt ggatggnttt tccagggtgt atattgtaat 600
ttcaaaaaat gatcaaaatt tntacacttt taaaatantg gttcaagttt tatttttat 660
attgaaataa aaggctggat taaaaatggc ccnaaanann annanactnt tnantntntn 720
nncncntnnn tnncnnnnnn ntcntnnnnn nntntntnnn nnnncnnccn gcnccttntt 780
aaaaantttn gnggggggnc gnttttccn tngaaccccc cnctttgttt tanct 835

<210> 4110
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4110
acattnngnn cgcctttcng tttganccca tcgaccgaat tcggcacgag gctngatcgt 60
ctgggcctgn gtttnanctg gnatnggatn ctcaatcctt nttgttcaaa ttttnaagtc 120
cagaaagctc tgaaaactga aagttttttc ataatttatt tcactgtaaa acctgaattg 180
aactgatatt tatctcacta aaaatgagta ttcatatatt gnactgtang aatngtaaaa 240
ttaccaagta ntancccaga cctagttaga taaatgcacn attngctttt aattncaaaa 300
aaatcttaan tctgaggcac atttggctga cagcatttca gatnagggat tttgaacctc 360
taattcaatg atgtngataa atatcaccac ttctactacc attgtctatt actgaacact 420
taccatgggc caggtacaga gaaggaattg acctaataag ctnttcggnc cntananagc 480
tntaaaaggc aggtcctttt attgacgtca ttttattgct ggtcacccaa gtggcaaggc 540
tgggctgatc cattggtcaa gttatgactg ccgtgctcct nccccaaact taangcagaa 600
ntctcagtgc agatgatcct ggacttacca agggggttat nctaaatnga ataagaactg 660
ggcctaaaat tgggaaanat tggtaaggcc ttttaatacc atnttaacca tcttagcttt 720
gncttaacct acccttaaan ngtgcctcaa ggacacttac atttaccgna cc 772

<210> 4111
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 4111
ttttctttnn ntnnatcagc tcttgttctt tttgcaggat ccctcgattc gaattcggca 60
cgaggggacc tcgatcatga caggctcatc agcctgtgcc tgacccttct cacgtgaccc 120
cagacatcct gcaacctggg gggacattcc tttgtaaaac ctgggctgga agtcaaagcc 180
gtcggttaca gaggagactg acagaggaat tccagaatgt aaggatcatn aaacctgaag 240
ccagcaggaa agagtcatca gaagtgtact tcttggccac acagtaccac ggaaggaagg 300
gcactgtgaa gcagtgagga tttcttgtgc cattttcata atggtcatta gctcctttta 360
agctanaaac gtacctgagc ttctgaagag ttcctgggag atttgagctg attttggaaa 420
tggagcatga caagtgggga gtctctctct ctctttctct ctctctcttt ttaaccaaaa 480
agagatgacn aaactaagtt caggggccat ggaaaatgaa aaagtccgct atattgngat 540
ttgggaagaa gaaagttntc angaagaaan angtgangat tgaangatng agaaaaacag 600

acttgttggg aagggtcana aaggaattcc cccgangcaa gggattggtg tgcccatttg 660
tgcctttgac cgggaccttc atcttattat actggttaaa cttgtnanac cacaaaacag 720
gggttttcca acccctgttt ttagaacccc acgcnccaga tttttccaat tctttaaagg 780
ggggctggtt 790

<210> 4112
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4112
ggtnnnnntt gnaatcgana gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagga aagctcatta ccagtaggac ataatttttg gctctcccta ttcacaacca 120
gtgcacagtt tgacacagtg gcctcaggtt cacagtgcac catgtcactg tgctatccta 180
cgaaatcatt tgtttctaag ttgtgtttat tcctggagtg acatgccacc ccgaatggct 240
cactttcact gaggatgctg tcctctgatt tagctgctgc ctccagcctc tggcttgaga 300
acttactaaa ggcacttcct tcctgttaaa cccctgttaa ctctccataa atttggtgat 360
tctctgctag gcctaagatt ttgagttaac atctcttgaa gccaaactcc accttctgtg 420
ctttttgctt gggataatgg agtttttctt tagaaacagt gccaagaatg acnagatntt 480
taaaaaaaga aaggaaggaa aaaaaaaacn cttcctttta aagaaattcc ctaccngatt 540
tttaatatag gtnatcttac cactttcttt tctagtttct tggattttna gcttaggctg 600
cattctaacc tcatactgng naanaccaaa ggtggttttt ngattcanna aatttttga 660
aaatctgcat aagccttaaa tttggtaaaa aattaangaa aaattccttt aaaaaaaaaa 720
tannnnnnnn naaaaaaaaa aacctgnggc ctttanaact ttgngagtcn tttcc 775

<210> 4113
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4113
ctaatccctt gtttctaatg cttggctact ngttctttct gcaggatccc atgcgattcg 60
aattcggcac gagcccagag aagagctttt cagagaaagg tacagacaag aagctagaaa 120
gagtggaagg agcagcagtc ttgcaaggaa gcagggcaga gacacagccc atggcccctc 180
actgccctgc tggaagggct gatggagctc cccgcagcat ggttcctgcc tgggtgacag 240
aggctcctgt ggccacttta gaagtgcggt ttactcctca tgccgagatg gaccttgggc 300
agctcagttc acaagatgtt ggtcaggcgt catttaaata ttttcagtca gcagaggaag 360
caaagcgtgc cattgaggct gtgctgtcag cggatcctcg gtctgtgtac cgccggaagc 420
tttgccagga ccgccttttc tactttactg tagacatagc gcatgtcact tgctggtttg 480
gtgatggctt tgcagaggtg ctgaggatca agccggcttc tgagcctgtt catatgactg 540
gccctgtggg gtccttggtg tctctggggt cttaaggacc tncctcatgt ctttaaggta 600
gcatcattga tctttggatg tggctttttg gatttcttga acaagctaat gttgtgtcaa 660
gaagcaacac ttttgtgaat ctcattggct ttgattggat ttgggcttgt tcaaaaatgt 720
ttatttgaaa aacgtattcc tttaataaac ttaaccaaag agattttaaa att 773

<210> 4114

<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 4114
gnnntattgc aattngatag ctactngttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgagggt acccagtagg tatcgttgga aacaacggag ttctcttttc tgaatctgca 120
aaaaagggta ctcactttgt ccagttatgc tgccaaagaa atattcctct gctgttcctt 180
caaaacatta ctggatttat ggttggtaga gagtatgaag ctgaaggaat tgccaaggat 240
ggtgccaaga tggtggccgc tgtggcctgt gcccaagtgc ctaagataac cctcatcatt 300
gggggctcct atggagccgg aaactatggg atgtgtggca gagcgtatag cccaagattt 360
ctctacattt ggccaaatgc tcgtatctca gtgatgggag gagagcaggc agccaatgtg 420
ttggccacga taacaaagga ccaaagagcc cgggaaggaa agcanttctt catgctgatt 480
aaaccgnttt taaaaaaccc ttctttaaaa ntttgaagag gaaggaaccc tactntccag 540
ccaaggtatg ggatgatggg atcattgtcc acagacncag actgtcttgg tctngtttag 600
tgcacctnac cccatngaga gatgntcgtt cttagatgta ctggataagn gttctgtgaa 660
tnctgaatac ctgngtanct aaattaactt cnctagtgtc anat 704

<210> 4115
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4115
gtnnnntttc aattgnttag gctctcggtt ctttntgcag gatcccatcg attcgtttca 60
gctttcgtta ccagcaggag ctggaggagg aaatcaagga attatatgag aacttctgca 120
agcacaatgg tagcaagaac gtcttcagca ccttccgaac ccctgcagtg ctgttcacgg 180
gcattgtagc tttgtacata gcctcaggcc tcactggctt cataggtctt gaggttgtag 240
cccagttgtt caactgtatg gttggactac tgttaatagc actcctcacc tggggctaca 300
tcaggtattc tggtcaatat cgtgagctgg gcggagctat tgattttggt gccgcatatg 360
tgttggagca ggcttcttct catatcggta attccactca ggccactgtg agggatgcag 420
ttgttggaag accatccatg gataaaaagc tcaatagcat ctttaacgtg aaaatnaaac 480
cagaacncna nnaaggcctt tanggatttc ngggtttttg cccacggcca caggttcatn 540
tccagaggaa tgcaaaactg anacnatcca ggaagagcta aaacatggcc ctgtaataaa 600
tgaccagacc tttcctgngg ttcaaattnt taacacactt cctttctttt gggaaaaaaa 660
aannnnnnnn antnnnnntt nnaaaaaaaa aaacttgacc tttaaactnn aggatctttt 720
actnantcca acttgntaga nccatggtna gttggnna 758

<210> 4116
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(869)

<223> n = A,T,C or G

<400> 4116
ggnnnnntnn nntttgaaac cttnggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gaggtcaacc tctaccacgt gcgggaggat ggctggatcc nagtctccag 120
ngacaatgtg gctgatctac atganaagna tantggctct acccccctgaa agagggtgga 180
tgcanctgct tgtgtatntt ggggtgactg tcattggtaa tacggacaca gtgacccatc 240
ctccatncta tttatagngn aagggccttc antngtatca gtacttgatt tnaagctctg 300
gcacattgac ctntatgtgt taccagtcat taatgagctg ntgcacgagg tgactattng 360
ttanactntc ttagcatgtt aacattacac tnctcactac tcatananaa gnntnnnnan 420
aacttgagnc ctttaaaaac ttttaagtna gtcannattt ccgttngatt ccaatanctt 480
ngaatnaaga atnccttgg gntnaatttt tggaatcaaa acttcctacc tttgnaaatt 540
nncnntgtgg aaanantaaa atntgcttta aaattttnng ttgaaaattc ttgggggaa 600
ncgatttttt nngnctttnn aannngnggg ttacccccct tnattannnt cttnaaatan 660
ttnccaaann ttttaaccct caacctttt ggnnttttan tttttaagng gttncatgnt 720
aaaangtnaa atntntttgt anngnttttt ttntccagnt nccnngngtt cttnanaaat 780
ttngcccnnn gtgtcnacaa nntnttttgn tnccntaatt tatnggnngt tttnttnccn 840
ctnttgtcat aaaatagngt taanctgnn 869

<210> 4117
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 4117
ggtnnnnntt ttnnnntaca gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagga gatgctgaag gaaattatag ccagaggaaa ttttagactg cagaatataa 120
ttggcagaaa aatgggccta gaatgtgtag atattctcag cgaactcttt cgaaggggac 180
tcagacatgt cttagcaact attttagcac aactcagtga catggactta atcaatgtgt 240
ctaaagtgag cacaacttgg aagaagatcc tagaagatga taaggggggca ttccagttgt 300
acagtaaagc aatacaaaga gttaccgaaa acaacaataa attttcacct catgcttcaa 360
ccagagaata tgttatgttc agaaccccac tggcttctgt tcagaaatca gcagcccaga 420
cttctctcaa aaaagatgct caaaccaagt tatccaatca aggtgatcag aaanggtcta 480
cttattgtcc gacaccatng aantnttttg agggttgcna aanaccattg aaaaaagaac 540
naaaagcctt aaaagccctg tnttcncttg taaattcacc tgcaaaaata tggattggct 600
ntttaccaac ngggcaaccc tggcaaaccn aaaaaggctt gtgggnattt ggaattattt 660
ggtnccgaaa atngtctcnt ggtaanttat tcattactta cttnaaagaa ctggtttcaa 720
aaatnggcaa gcnttccttn aaaagcccag tttgttaaaa aatanggtcc cccttgnctt 780
ggttccaaaa nnaaaaggcc nnaanggaan tttccnn 817

<210> 4118
<211> 861
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(861)
<223> n = A,T,C or G

<400> 4118

gntnnnnnnt tgtntncata caggctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gccggcttcc tcatcaacct cattgactcc cccgggcacg tcgacttctc 120
ctcggaggtg actgctgccc tccgagtcac cgatggcgca ttggtggtgg tggactgcgt 180
gtcaggcgtg tgcgtgcaga cggagacagt gctgcggcag gccattgccg agcgtatcaa 240
gcctgtgctg atgatgaaca agatggaccg cgccctgctg gagctgcagc tggagcccga 300
ggagctctac cagactttcc agcgcatcgt ggagaacgtg aacgtcatca tctccaccta 360
cggcgagggc gagagcggcc ccatgggcaa catcatgatc gatcctgtcc tcggtaccgt 420
gggctttggg tctggcctnc acgggtgggc cttaccctga agcaatttgc cnaanatgta 480
tgtngcccaa tttngccgnc caaggggggа aagggcccan ttnggggccc tgccnaaacn 540
gggcccaana aaaggttnan ggaccattga attnaaaaaa aacctttggg ggggttgaac 600
aagggtncct ttttggaccc ccaancccca aacggggcaa aggttttnaa ncnaagggtt 660
naagcccaac ccaaaccccc ccnaaaaggg gnaaanaaaa cttggccaan gccaaccntt 720
ttttggccaa acttggaacc cttgggaanc cccatttttt tnaangggng ttttggatgc 780
cnaaccattg aaattttcaa ggaaaanaag gaaggccngg gattngggaa aaccccaaaa 840
aatttttttc catttttttt n 861

<210> 4119
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 4119
ggtnnnnntt gtaanntana gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagcc tcattatcca ccacgcacag atggtacagc tggggctgaa caaccacatg 120
tggaaccaga gagggtccca ggcgcccgag gacaagacgc aggaggcaga atgaccgcgt 180
gtccttgcct gaccacctgg ggaacacccc tggacccagg catcggccag gaccccatag 240
agcaccccgg tctgccctgt gccctgtgga cagtggaaga tgaggtcatc tgccactttc 300
aggacattgt ccgggagccc ttcatttagg acaaaacggg cgcgatgatg ccctggcttt 360
cagggtggtc agaactggat acggtgttta caattccaat ctctctattt ctgggtgaag 420
ggtcttggtg gtgggggtat tgctacggtc ttttaattat aatnaatatt tattggatgc 480
ttnaaaaaaa naaaaaaaaa aaacttnngg nctttttnaa atttttaggg gagtcngtnt 540
tnccntagan tccagacntt gtttanggat nccattggtt gaantttggg gaccaaaccc 600
ncaacnttgg aaattgccnn ntggaaaaaa aaantgcctt ttantttggg gnaaantttg 660
ggggaatgcc ttatttggct tttaattttg gtaacccnnt tttttaaagc ctggcaattt 720
naaccnaggt ttnaccnanc caaccaaatt ggcattttca tttttaaang gttttnnang 780
gtttcaaggg gggnaaggtt tttgggaaan gttttttttt aaaatttnnn ggggccccnn 840
gggngccncn a 851

<210> 4120
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4120
ggtnnnnatt taannntnagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggnnc ctgcaagggc tggtgtggaa acaagcannn tngntgcntg aagcaaaagt 120

nanacngngg tgtnnactgt tgatgtgacc ccacaaagtg tnggaaccgc catcaaggcn 180
nggntagctn gggcactgtn gancggaccc anaattncnn nggntccttc naactgnang 240
atcctaccna ggtnacccnn ggatngngct tntntaatnc nntttgtgcn accccnaata 300
gcnngatcct gaaaganatg tgccatgtng ancaggtgct gtnaaagaag actgcttcng 360
ctccctgncc ttttgacctc ccngagttga aacatgtagc aacacgnntn ccatagaata 420
caaggctcca gntgaagaaa aagaaacggg ntctggtcag naacaatcag nttccntntc 480
ttggangatt cccctnttnt aatnaaaagc cctnatttna nttttnnang cnttnaattt 540
tttacncctn caatntttgg tttgcntaan atgctttttc aaggtttgan aacccctttaa 600
angggggttt tttttnaaaa tggactttct tntgggattt tnagggtttt antttggctt 660
anttnaaaaa aaaagntaac caaaaaccgt ttncttgnaa aaagaanggt nnacccttta 720
aatnggatnt tgggcccttt aancctttca atgttccang gnttacctna cttttangtt 780
ntntcccaaa aaaanggttn ctaangtntn ccttatttgg actnnaanaa cccnaattga 840
acttttnn 848

<210> 4121
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 4121
gnnntttcaa tcganagctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gagtacatat ttgtcataat tacaataaaa tacaaagagc tattttggaa ctgggcaagc 120
tgtttctaaa tgtatatgga aaaataaaaa tgtctccaaa aaatccctgc agagggaaac 180
tagcccttcc agatataaaa tatattatag aactgtgtaa ttaaagcaat atggtactgg 240
tccataaaag aacataaaac caaatagttc agtagactca aaatgcaagc gttggtgagg 300
gtatggagaa aagggaaccc ttttacactt ggtgtgaatg taaattagta cagacattgt 360
ggaaaacagt ttgtagagct tcctcaataa aaacacatat gatccagcaa tcccactact 420
gggtatatat ccaaaggaaa tgaaatcagt atgttgaaga gatacttnca cgttcactgg 480
aaccttgntc acattggcca gnacttaaac ctaaagggtc catnaaccgg aagatagata 540
gggctgaccg cggtggccca cgcctgtaat cccagcactt tgggaggcca aggcaggtgg 600
atcatttgag gtcagaagtt tttgaccagc cttggccaac atgatgaacc ccgtntttct 660
aaatttccaa aaattagctg ggcgtatggt gggcacctgt nttcccagtt ctcggaggct 720
nangcaggan aatgctgacc cagggacgga cttgnt 756

<210> 4122
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4122
ggtnnnnntt gnaatcgana gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagga aagctcatta ccagtaggac ataatttttg gctctcccta ttcacaacca 120
gtgcacagtt tgacacagtg gcctcaggtt cacagtgcac catgtcactg tgctatccta 180
cgaaatcatt tgtttctaag ttgtgtttat tcctggagtg acatgccacc ccgaatggct 240
cactttcact gaggatgctg tcctctgatt tagctgctgc ctccagcctc tggcttgaga 300
acttactaaa ggcacttcct tcctgttaaa cccctgttaa ctctccataa atttggtgat 360

tctctgctag gcctaagatt ttgagttaac atctcttgaa gccaaactcc accttctgtg 420
ctttttgctt gggataatgg agtttttctt tagaaacagt gccaagaatg acnagatntt 480
taaaaaaaga aaggaaggaa aaaaaaaacn cttcctttta aagaaattcc ctaccngatt 540
tttaatatag gtnatcttac cactttcttt tctagtttct tggattttna gcttaggctg 600
cattctaacc tcatactgng naanaccaaa ggtggttttt ngattcanna aatttttga 660
aaatctgcat aagccttaaa tttggtaaaa aattaangaa aaattccttt aaaaaaaaaa 720
tannnnnnnn naaaaaaaaa aacctgnggc ctttanaact ttgngagtcn tttcc 775

<210> 4123
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4123
gnnttcaaat cgatagctac ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gagggccgtt gggcgagatg aagctacact gtgaggtgga ggtgatcagc cggcacttgc 120
ccgctttggg gcttaggaac cggggcaagg gcgtccgagc cgtgttgagc ctctgtcagc 180
agacttccag gagtcagccg ccggtccgag ccttcctgct catctccacc ctgaaggaca 240
agcgcgggac ccgctatgag ctaagggaga acattgagca attcttcacc aaatttgtag 300
atgaggggaa agccactgtt cggttaaagg agcctcctgt ggatatctgt ctaagtaagg 360
attccatatg gctctcatat cattccattc catctctgcc aagatttgga taccgcaaaa 420
atttgtgttt gtggaagatt ctgctgaact ctttcattca agggactact tccattgaat 480
ttggattntg tttgccccac attgggggtc ttantanana atttggggtg gnncntgaag 540
cacctattaa tctcttaatt tctggttctc ttangctggt tatgttaaat tcctccgata 600
tgttaaaagt aatgggtgag accagaaaaa gaaatttcaa ttaccagatc antttggggt 660
gcattgtatg attttgcacc ntcaaaatgg aattanggga agaattctgg ntcttgcttg 720
gaaagganga tgtgtntagn tncccattta natgactcca aattttntta 770

<210> 4124
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 4124
gntnnnnntt tgtntncatn cagctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag ggaacatcca gtgcctgcag gacgtggagc gctgcctccg ggacacgggt 120
gtgcagggcg tcatgagcgc agagggcaac ctgcacaacc ccgccctgtt cgagggccgg 180
agccctgccg tgtgggagct ggccgaggag tatctggaca tcgtgcggga gcacccctgc 240
cccctgtcct acgtccgggc ccacctcttc aagctgtggc accacacgct gcaggtgcac 300
caggagctgc gagaggagct ggccaaggtg aagaccctgg agggcatcgc tgctgtgagc 360
caggagctga agctgcggtg tcaggaggag atatccaggc aggagggagc gaacccaccg 420
gcgacttgcc cttcactgga tctgccaccc tacattcggc cggggcccaa gganganaac 480
cagganaaag cagtccccca aaaagcgggc cttgnaggaa aaggangtgg cacggangtc 540
tgtcttanac ccnttgcaaa aggacaataa tatttaaagt gaaaaanana nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnannnnn ngnnntnnan nttnnnnnnt 660
nnnnnnnnnn nnnnnnnann nnnnnnnntn nnancnnntn nnnntta 707

<210> 4125
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(673)
<223> n = A,T,C or G

<400> 4125
gntnnnnnnt tttatatata caggctactt gttctttttg caggatccca tcgattcgtg 60
cttgttcgtt tctgtgtact tgcttagtgg actgtagcaa cacactcagc ttctccagtg 120
tcaacccaca ttggctttcc cactctacag tttctgtagg atgcatgttt tcaccattat 180
caggcttctg cagtgctcag agggcagcaa tacccagcaa ccagtgaccc gaggccagca 240
acttctttta cttccccctc agttggattt gtaacagagt atctttggtg ggacacttct 300
gtgtgaagag attttactag caccctaaag aatggatttc tggcaagttc cacaaggtag 360
acttccagta agttctgctg gtgcagcact acagcaactt ccgtgctatt cagtgagagg 420
actgtgttct ctccaacaag gtctggatct cagccctggg atggtttaag gtcngangaa 480
gctnttgctt tggggntctg ngnnaanctn agggacttng gnactntnaa nagtctctta 540
ttcnnatagt naatanctgt tctcacccat gttaatagta gngaccttta taagttcatt 600
tcaatactgg ggttcttcga tgnttcttct tattagacgt gaaatgtgat gtgattgtat 660
agnatgntac ata 673

<210> 4126
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4126
gntntnnntt tgtatannta caggctactt gttctttttg caggatccca tcgattcgca 60
gcaatgtttt gtggctttta ttgtacaagc ttttcacctc cttggttaag ttagttctta 120
agtgtcttat tcttttacgt gctattataa atggaattat tttcataatt tccttttcag 180
gttgttaatt attagtgtac agacatgcaa ctgatttttg cacattgact ttgccagtga 240
catgaacctg tatgtagaaa accctaaaga ttgcacaaaa aaaatggtta gcttgagacg 300
taaaccttag gcaaagagaa gtttgtgatt tgtaagaaat ttaaaattaa taggattaaa 360
aagagagctg tgggccttgt tatgtatttg ctttggaagc cctctaagaa aatttcaggt 420
caatttttta ttctctgccc tactggaatg cccccagatt atgtgacaat gangtcttat 480
tttaatatgt ncanaatttg gtnanantgg caatnnttgg gttcnanatt ttcccatttc 540
agaaaattnt ngctttttcn ggtgatgtct tatcctcttg ngtgggtccc aagtgagccc 600
tgatcctttc agatncattt tatatactct ggtggtgatg aatatttnat ctctggcaaa 660
tactgnccat gctaattccc tggaggacct nggatncaat attattggaa ttntaaatca 720
aggttaacct aagtcaaaga gtctnanctg ccc 753

<210> 4127
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(817)
<223> n = A,T,C or G

<400> 4127
nnntntnnnt tttntacata nangctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggcgagggcc tggcccccag ggcggccaca ccagaaggtc ggagaaaggc 120
ccaaggcgga tgccacgccc agcagtggtg agggacccac agattttgga aacgacctgg 180
acacactatt gggaaggaga tgtggacggc ctgtctcctc ctgcagggcc caccctaaga 240
atgtattttt aaacacatga aataagtatt tttcactgat aaaaaaaaaa aaaaaaaaaa 300
actcgagcct ctagaactat agtgagtcgt attacgtaga tccagacatg ataagataca 360
ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt atttgtgaaa 420
tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa gttaacaaca 480
acaattgcat tcattttatg gtttnaaggt taaggggaag tttttggaaa ggtttttaaa 540
ttcnnggccn nggnnccaat tgcnttgggc ccggttcccc aantttttngt tccctttttat 600
tgangggtta attgcccccc ttgggcgtna atcatgggcc ataancttgg tttccctggg 660
gtgaaaattn gntattnccg tttnacaatt tcccacacaa nntttncnaa ncccgggaan 720
ccttaaaant gtnaaaaccc tgggggggtgg ccctaaatgg aattgaacct taacttnaca 780
tttaantggc ntttnnnnct tnaattggcc ccntttt 817

<210> 4128
<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(684)
<223> n = A,T,C or G

<400> 4128
agnnnnnnnn nnttgaanac nnnagctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg aggataggct tagaaattat tttttatcag cattaagtgc ttcaatttct 120
ccccataaag attctaagga aatttcagtt cctcatatta tagttttccc cataatttaa 180
tattactaag tatttctctg cccagtaatg ttgatgcagt ttgcataaat agccttggaa 240
gtaaggaggc aggacagaaa gccaaatatc gaaatctctg gccttgattt agtgacagtt 300
tattctaatg gggaccatag gtgttattag taaaaagata gtgtacaagg cctaagttca 360
gtttacattg ttctttgaaa tgagttcatc ttttgtgttg aataattgta ttctaagtag 420
gagatgcctg tatttaacat aatcatgctt tctatataat caaatatgta tttgntggaa 480
tactggtaga aataccttcc ttcctcnttg ccanggaaaa aaaactcccg attatncngn 540
tataaatagg aatttgtaca tattacattt taaaatttaa atgcatatat ttgaaggatg 600
gatatagtct gagctatgct gcttaattca ctcctggacc gncaatgttt tatatggctg 660
ctatgctggt acgngctgat gnaa 684

<210> 4129
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4129
acganagcta cttgttcttt ttgcaggatc ccatcgattc gnnnctannt cgagaagagg 60
tntggtnacc tnctgntgcn cncnctgggc tggacggnaa gangactnnt nnntcnangg 120

ngngnnnngc ggcacaccng gtatttganc atgcattatc tncacacact gtgcagcatc 180
ctttggagag cacaacgcat ggaaaggtca tnnannntnt ganttgccat ntcnntngcg 240
ngtcntccta cccaagtaaa agntaccttg gcnatnntac cnccgntttn ntcactcncn 300
aggacntatt acctngggtg cntnnaacgt aatcnnntac tnnnnctcat tctnacnnnn 360
nttggaccca tngncttgct gncacaccta tgaagnactg tttcacagcn ctttcacttc 420
ctacnaaggt accatgttat ttatcttgcc tngaaaattc tgaattntac ncttaaattt 480
taannttttnt tnactntnaa ngcaaaaatt ttttgaactg aaaggtcntt aaaggcnttt 540
ngactcttca tttttcaaat tngggaaaac aatgctcaaa agagttntnt tnaccttngt 600
aaannaangg gaanaanaat ctggaatctt tcctgancct ntacnttaac ctcttntntt 660
cactggtnct tgcanttttt tcctaagtna tttnntnggg attatttnat ttcaaccaaa 720
cacttgancc ctttttannng ccaatgcact tggttaaacc atgggggnaa aaatgcccc 779

<210> 4130
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4130
acganagcta cttgttcttt ttgcaggatc ccatcgattc gnnnctannt cgagaagagg 60
tntggtnacc tnctgntgcn cncnctgggc tggacggnaa gangactnnt nnntcnangg 120
ngngnnnngc ggcacaccng gtatttganc atgcattatc tncacacact gtgcagcatc 180
ctttggagag cacaacgcat ggaaaggtca tnnannntnt ganttgccat ntcnntngcg 240
ngtcntccta cccaagtaaa agntaccttg gcnatnntac cnccgntttn ntcactcncn 300
aggacntatt acctngggtg cntnnaacgt aatcnnntac tnnnnctcat tctnacnnnn 360
nttggaccca tngncttgct gncacaccta tgaagnactg tttcacagcn ctttcacttc 420
ctacnaaggt accatgttat ttatcttgcc tngaaaattc tgaattntac ncttaaattt 480
taannttttnt tnactntnaa ngcaaaaatt ttttgaactg aaaggtcntt aaaggcnttt 540
ngactcttca tttttcaaat tngggaaaac aatgctcaaa agagttntnt tnaccttngt 600
aaannaangg gaanaanaat ctggaatctt tcctgancct ntacnttaac ctcttntntt 660
cactggtnct tgcanttttt tcctaagtna tttnntnggg attatttnat ttcaaccaaa 720
cacttgancc ctttttannng ccaatgcact tggttaaacc atgggggnaa aaatgcccc 779

<210> 4131
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4131
gnnnntttcn aaanntttttt gaaanccttc ttnnccttttc aaancgcttn cgaattcggc 60
acgagcactt gtcaggggag aggggacagc aaggtgggag gttgaagagc tttgaggctc 120
agcagcatgt ttgtggcatt cggtggacac catggccttg ggcggctgga caggtttttg 180
tgatgtgagg gacacgcatg gggcacatgg taagcttggc aagggctcca ggaacgctga 240
cgaagggttt taggaccccc acccccatgc ctgtaccagg gctggcctnc agagcgggtg 300
aggacagagc agctgtgggc ttttcattct gaggtcttgg ccccccctgcc accgcaaggg 360
actctttgct tgtcagggct tgcaaaaacc aaccttcgag aaagaaaagg gaactcttca 420
cgttgaatgt tgactttgtg tgtatgcctg tgtgtgtgtg tgtgtgcacg cgcgcgtgtg 480

cgtgtttact tcatggaatt ttgttttgtg aaattcccct caatcgtgtc agaatttacc 540
ttcatgcccc atcacactgt tggttctgcg ctctgaacct gggtgtagct catttgaang 600
actctcttct gcgtttccta acagttattt ggtggtctca aaagttgang ttgtggaagg 660
gttgggaaga aactgaagtt ctatccattt ccatagaatt tacatnctgc atttnaaang 720
canggaaggc ttaaccccgg cccaaaactt ncaggcct 758

<210> 4132
<211> 1335
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1335)
<223> n = A,T,C or G

<400> 4132
gccctttcta antgctnaga cccttgtact cctcatgaac gtttggnaaa tnccgcacga 60
ggaaacagac aaatctgtaa taacggccta ancctntttc tgngatnagn ntcatttttg 120
cccantcnna aaaaatgtgn aatagnttat tcaagncaan cagctcattt tccaacaatc 180
ctnngctcat gtgatccccc aatncccaca actttntgga naacccnngg gccncanatg 240
gttgtggaaa aatggggttn tagatgggtt cgnggaactt gnagggtatg aaaaagggnc 300
cannccaggc tngaactggg gattnggann aaacnccaat cgnaaaaccn ntttttaaan 360
aacnccccct ttaanaaggg ggcacctgnt ntttaacggc taaganaaaa tttggaattg 420
ccccccctcan gttncatnna aacggggatt tggaaatttt ggaacccccc gggggnnann 480
attatcccat ccacaaanng gaaccctggg ggcancnccc aggggganct ttgggaaaac 540
aaggggggcc ccttggcctt ttaacggccg ngcctntttt tgggcantaa ncnaggctng 600
ccctaanaan gggggccncc ctttntntaa ccncccanna cctttncggc gtttcncant 660
nccccntggn gncttaaacn ctgggntgcc cntgtctatn ncnagacccc tttttngccc 720
ntggggggnc nantttaagn ccccccccnt tgggaaaatn tccccccaan nggngnanng 780
ggngngcccn aaatttttncc nncgnnccnt ttttgcnanc ntntngggcc natcccttat 840
ggntnaaacc cttngnaagn ntcaccaaat tngggttggg ccccctttcta anggtaaaaa 900
caaaaaangg nnngggnnnc cntttgncan cattnnnctt tcccaanacn ctttggnggg 960
gnaaaaaacc cctgtaanan ncaagcnccn gggnaanata aagggtaaaa atcncccnng 1020
ggnnccctta aggnnnttttt naaagggaac nntaaanccc cncccgnggg ngnnaaattc 1080
cttgggcttt tacncnccnt ttgngccnca acnntgggac naaaggnttc tnacnagggn 1140
aaatnggggg ggcntnaacc cgaacccccn antncccnct aagganagcg ntaanttaan 1200
gggaancttc ngccttgcaa anaaagntnt ttgnacaatn ttngcncgaa aannngnggn 1260
gaactnaaaa ctgggaccaa antccnccng gncctanacn ttananaaaa gatgntaaac 1320
aatngccccc ccccc 1335

<210> 4133
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4133
ggtnnnnatt taanntnagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggnnc ctgcaagggc tggtgtggaa acaagcannn tngntgcntg aagcaaaagt 120
nanacngngg tgtnnactgt tgatgtgacc ccacaaagtg tnggaaccgc catcaaggcn 180
nggntagctn gggcactgtn gancggaccc anaattncnn nggntccttc naactgnang 240

atcctaccna ggtnacccnn ggatngngct tntntaatnc nntttgtgcn accccnaata 300
gcnngatcct gaaaganatg tgccatgtng ancaggtgct gtnaaagaag actgcttcng 360
ctccctgncc ttttgacctc ccngagttga aacatgtagc aacacgnntn ccatagaata 420
caaggctcca gntgaagaaa aagaaacggg ntctggtcag naacaatcag nttccntntc 480
ttggangatt cccctnttnt aatnaaaagc cctnatttna nttttnnang cnttnaattt 540
tttacncctn caatntttgg tttgcntaan atgctttttc aaggtttgan aacccctttaa 600
angggggttt tttttnaaaa tggactttct tntgggattt tnagggtttt antttggctt 660
anttnaaaaa aaaagntaac caaaaaccgt ttncttgnaa aaagaanggt nnacccttta 720
aatnggatnt tgggcccttt aanccctttca atgttccang gnttacctna cttttangtt 780
ntntcccaaa aaaanggttn ctaangtntn ccttatttgg actnnaanaa cccnaattga 840
acttttnn 848

<210> 4134
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4134
cntnnttgnn cnnnnnnnng ggggntttgc antgcggnct aatggctnng gctactngtt 60
ctttncgcag gancccancg attcggaaaa tataggcctt tattgtcttt aacattgaag 120
taactttgta gttttattca attatgagcc agcagatcct tagtttaggc ccttatattg 180
catacctaat tagaactttc cccaaagttc aactgcatga ccttaatgta ttggagcacg 240
tcttacaggt ggacttaaaa ctctagaatt tcctgagtcg ttgttatttt ccactgaagg 300
tctttccact gtacagcatt tcaggcatca tcactatgat tctttttttct tgactgttgc 360
ttgttttccc actgctcttt tccccaatgg cgagctgggt gtgccatctc tggggctctc 420
ttataggaac tcacagtcta gcctactgta ttttgttttc ggagaagtga aagtgaacac 480
tgttatttgc catcatacct ccatcaagaa tttcacttca ctaggaaata tatgggcctt 540
tcatggaact gatgattact gtggctgatg tgagtgttgg gcttangatg ctcacatgtg 600
gtagttggaa gttttgtaat ctaagatgga aatgagtggg ccatttaaat ggccatctaa 660
aggtcacagt gactgcanaa gaagtnagaa gagagtataa ttcttcagct ccctggactt 720
ccatangaaa gctngaaaat cttataccca gattacccaa aaaaaaaa 768

<210> 4135
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 4135
gnnnnnnnnt tncgngtggg cnnntaggtg ggggnnttct nttttactna tagctngtgt 60
actcgttctt tncgcaagat cccancggtt cgaattcggc acgagggnaa cctttcaatc 120
actttaacta gtcncttaag gactctaggc ccagaagcct ggtttctggg tgaatgtttt 180
tatacatcac tcaacttccc tcgtcctaaa aggacaccta attttgttac tattgaaaat 240
ttttattttg gtggccagaa tacgaaatcg ggagaggtaa cccaaacagt tgtcttagga 300
aaaggcagat tctcagaggc aatgggctat caacaaaata ggtgctaagc acatttgttt 360
gtaatgatca ttcatataat ttanaagatt tatggtaaca gtttatattc attatccata 420
cagttctatt tttgcaaata gaataaccac ctataagcaa acagtgttaa tgagaaatat 480

atattgtntt aagaaaatag catataccac atgaaaaaga gtgttccctt tctnttttt 540
tttttgccag aaatcaagtg tggaagnctt gatcaaagta aaactaccta tttgaactgc 600
acanataaaa ctggggtgcc caatccntat tttacatttc tngggcttga ttcatataac 660
tttgtaanaa aaaagttnac tattnaaaaa gtcnngtgng ccttcacttt tgacttggac 720
ttctattccc ctttttgtcc tgggattnct ttttcctacn cnatttctnn aaatnttatg 780
aaangggcnt ntntncnn 798

<210> 4136
<211> 1105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1105)
<223> n = A,T,C or G

<400> 4136
gacccentte ntgattgggn cnnaggtggg gggttttcct ttttactaaa tngctngtgt 60
cntccntant ctnctnanna nnnagagcnn agtcctcana cagcncgnag ccccantagc 120
tgggcctaca ggcgcccgtc nccacaccna ctnttatggg ggggngnggg gnggggggaga 180
cggggnnttt accatgtttg cnncccgcng gtgnccncgt ggtcannnct gnngaccanc 240
tnttnccggn canancncnc cggnctcnnt atcccncncc aggncncncg ncnccntnca 300
nnnntgaann cccnccccen ctcnnancta acnngnagcc acngccaant tcnnntntnn 360
cgtnncantt tnactacact tnttcnnctc ccntnttcca ctctnnngnc ncnnncnncn 420
nggtctnant nccntnettc ttntatagac gntcatcacn nccaccncca annttnnctt 480
cancataatc ncntntancc tncancncnn anntacggcc tcnntctccc nccectnttc 540
tcacnettan ttctnctctc ctctcgcccn tnctnngccn ncctccnctc cccctctnaa 600
tnntctnctn ntctctccct ntcnnttttc gntnancacn catnncatcn ccaccacctc 660
anctntatct atnatcttan cntcctcntc tccctcnctc atcactgttc nacncctnct 720
cacancannn atctcctctc acannttgct atcatctana tctctntctc ntcntcacca 780
nancctntac aanntcttct ccctctcnca tctcncttca ctctnncnac nntnacnnct 840
taccgcacgc ctccnctctc accttcactn ccccactntt cantntcgnc ncgnctctnn 900
gacctctctt cncncnattc cannnntctc ctcctaccna tnntcnattc tcnntcatna 960
ctactntntc anctaccana ncctnctcnt cataantccc ctcgacnntn ncncacctct 1020
actntgcgcc cncnnnccac tttcctctcc cnntangtca cctaccaanc anntnnatct 1080
nntattctan tcnantacnt tacct 1105

<210> 4137
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4137
nnnttttnnt tnttggngnn gnnnagtngg gggtttnctt tttttntaan ngctgcgcta 60
cttgttcttt ttgcaggcat cccatncgat tcgaattcgg cacgaggaga tccaagtggt 120
ttagaagggg atgattgctg gtgaaggttc tgaacatggt gacaggtggg aggctgagca 180
cacactcgta caccgctggc aggaagagaa atgacttttc tggactacaa tttggagata 240
acacaaacat taaaaagaag aaaaaattgt atccctttt gactaagcaa ttctaggatt 300
gttatttttt tctcctgagg aaactagcat ggatgttcac attcaggtgt ggggatgttt 360
atcaatttgc tattttagaa aagagaaaaa aagtttagca tgtcacaaga taattttcat 420

caatatatgg tacatccatt tagtgaaatg ctgtacagcc atttaaaaag atacagaaga 480
ggccaggcac ggtggcctta cttggctaat taaaaaaaaa aaatctgtag agatggggta 540
tcaccacgtt gcccaggctt gtctcgaacg cctgggctca agtgatcctc ccacctcagc 600
ctaccaaagg cctctagaac tatagtgagt cgtattacgt agatccagac atgataagat 660
acattgatga gtttggacaa accacaacta gaatgcagtg aaaaaaatgc tttatttgtg 720
aaatttgtga tgctatttgc tttattttgt aaccatttta agctgnaatc aaacaagttt 780
ncnn 784

<210> 4138
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4138
ctntntnggt cctnnnngnt ggctttctaa tgcntaannc tgntggtctn gttnttttcg 60
caggacccat cgattcgaat tcggcacgag gtggtacctt ggctttaggt tttcattcgc 120
acggaacacc ttttggcatg cttaacttcc tggtaacacc ttcacctgca ttggttttct 180
ttttcttttt tctttctttt nttttntntg agttgttgnt tgnttttaga tccacagtac 240
atgagaatcc ttttttgaca agccttggaa agctgacact gnctcttttt cctnnctcta 300
tacgaaggat gtatttaaat gaatgctggt cantgggaca tttngtcaac tatgggtatt 360
gggtgcttaa ctgnctaata ttgccatgtg aatgttgtat acnattgtaa ggcttatgtc 420
actaaagatt tttattctga ttntttcata atcaaaggtc atatgatact gtatagacaa 480
gctttgtann gaagtntang ancancnatt tctgtacctg atcaagttta ttgcancctt 540
tcttttccna ttnctttcnt ttaagggtta gtattancaa atggcaatga gtcnaaaagn 600
tancatgaag attttnnaan gagagaactt accggacaca gattngtgan nctttgactg 660
gggacaccta ttggatgtga ttcttaaaaa gcttttnatt ggagccattt ngccaaaatt 720
ttgnaaanct ttcatagggg gnattggacc nttattatcc natnaatncc ccctcctata 780
ttnc 784

<210> 4139
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4139
tnngnnncnn nnntggggnt ttcaatnttt cnaantgngt ctngttcttt nngcaggatc 60
ccatcgattc gcaaaagcca ccttttgttc gaaactccct ggagcgacgc agcgtccgga 120
tgaagcggcc gtccccaccc ccacagcctt cctcggtcaa gtcgctgcgc tccgagcgtc 180
tgatccgtac ctcgctggac ctggagttag acctgcaggc gacaagaacc tggcacagcc 240
aattgaccca ggagatctcg gtgctgaagg agctcaagga gcagctggaa caagccaaga 300
gccacnggga gaaggagctg ccacagtggt tgngtgagga ccagcgtttc cgcctgctgc 360
tgangatgct ggagaagcgg nagatggacc gagcggagca caagggtgag cttcagacag 420
acaagatgat ganggcagct gccaaggatg tgcacaggct ccgangccat agctgtnagg 480
aacccncaga ngttcagtct ttcangaaaa gctncatgga gcnaatcctt ctgcctgatg 540
aagtgcatct cagcatcact tcagctgtcg gggcatttgt ngggagaacc agaccacctc 600
tgcggaangc agcanaccct tttccagcca tggatngagt ttgaattctt ctataaacng 660

ntcaccatca naccacccaa ttcatttcca ttgctttgcc tatagaggaa atttannnaa 720
tcanattnaa tggtttcact ttatttnaaa ancnnnnaac tctaaaaact ntggncct 778

<210> 4140
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4140
tggttntctt gntggggtgt tccttnttnc aattatgtgt tctcgatcnt gtngcaggag 60
nannccngcg ntggccggtg tgttgcccag actggncttc acctcctggg ctcaagtgnt 120
nctcctccct cagcctcccc aagtgctggg attatagatg tgagcccctg caccagacaa 180
ttatatttat tnttaaaaac gcccctcatg aagtctgggt aattctctcc agatttctcc 240
ttatcaacaa atttataaga gttaggaaaa aaatgatgta aataaagcac ttaaattgcg 300
acagtggntc tattcttaac atnataatgc ttatgactaa ggagcattct tntnnttata 360
aannaaatgt ntnctgnact gttagantac atgagggtca gagacnttat nagtntgtaa 420
gaatgcnttg tggattntnc taannnatca cctacagtaa tgggctatgg ctaacaccct 480
ttnacaaaat ngaggnncac anatgaaatt ccagttanag atcataangg tgtctgcggt 540
gacccntagt nattncctnn cgattacngg cgcnaaattt aacgatganc tnncagctca 600
nnagntttgg annatttnng ctnaaatgct ctcctggaca ctaccatact tagcatatnc 660
ctgggaaata ctaaccgaat aatatncctt taaaacaccc cggcctcaac agataagatc 720
tatgatctaa cgtttnattc ttttcacaca ttattattaa tn 762

<210> 4141
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 4141
tgggttnnng gnttggggtt ttcaantttn gctaanagct gggctactng ttctttncgc 60
aggancccat cgattcgctt ttctttgcag tatgaaggta gataattctt caagttaaag 120
atggactttt ttcaccagaa atggctttat ggaatcaatt tgcaaaaatg taagaggtgg 180
caaaggaaag aataaaataa tattttcatt ttcttctgtt attcttagat cctttggtag 240
attgtaaact ccatgaaagc aggatacctt cttttgccct aaggcttggc ccaaaagaga 300
taccaaaaaa atacttgctt atatactaac ctagtctctg ggtgtgggag ccatagaggg 360
ttcanggtgg ggtggtgggg aaggtggngg nnttncgtat atccgaaatg ttncctcatn 420
naangnattt nnagcaagtt tangaangan ttttgctnaa tgaaatngnc anagaaccat 480
naanttncat anatgccnat gcctnaaagc ngccttttga agctttatct taangntctc 540
acccttcata acnnncctaac gnatnacntn tttccttanc tttggnattn natannnaac 600
atangctcnn cgtttattca anantccana acctnggnng gcnnttatan ttnctcctnt 660
nccnnaacct ttggaaantt naancctggn ncnttttncc atttctcctc ttttttanca 720
natanatann ncnntcnntc ttcntntana nntnnnctcn nnncnnctnc cntncnntcn 780
cttttnntnn ncannntnct cntcntannn ntttncntnn acannctnnc tantnnnntn 840
ngnntnctcc ntttntntnc 860

<210> 4142

<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4142
nagngcnntt nnggtggggg tttcnaattc ncnctaaaac tggggctact cntnctntcc 60
gcancaancn ngcngntcga attcggcacg agaagggaga ggcagtagga ctaggagtta 120
aattgtcatg ccgaggtctc tgagcatggg tgggcctgtc agaattgtca tcgctcactc 180
tgttgacttc cagcagctga caggcaaggc cctaggaagc tcttcagcct cctttccttg 240
ctagaggtgc tgttttccct ggaaatgttc aagccctgca aatcgtttct atagtaacag 300
gtctctgtct tttttcttat gatgcagatt tttgaaaagg tttcttatct aaatgttctt 360
gggatctatg gtcttcctac ctgtagctcc tttgattaga cagagccttt atttaaagac 420
ttttcccccc aagaatgttg ntgttgcttc taccaaaata ataaccantn gntagtttta 480
ctagtgcttg aagttntagt ttattaataa agcttcatnt naactatnaa aaggantggt 540
tgngtacnaa tagtaatacc ngaaaaaact aatattcact gntnctctca tgtattngnn 600
aactttaatt nttnattatg naaaaccttc aaacataana gtagtcaaaa ttatataata 660
gacacctata tacttaccac ctanattgaa aactaacatt cttgccatat tggcntacnc 720
tattccatac tgatagtaaa ncntagacca tgtatttaca nn 762

<210> 4143
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4143
attntacagc tcttgttctt tttgcaggat cccatcgatt cgaaaaggtg gccatgtgag 60
aaggactcag caagactttg ctggctttga agatggaaga atgtggccaa aagcctaggg 120
atgaatatgg cttctagaat ctataataaa caaggaaaca ttatttccca gagcctctag 180
aaggactgcg ttttgctttt gcctcggttt tagcccagta agacccattt tagacttctg 240
atctttggaa ttgtaggtta atgcatttat attattttaa gccactaatt tctggtaatt 300
tgttacagca gccgtaggaa attaacatgt aggaaaataa acgtttcaat gcccaggtat 360
actctgaggt caagccagag aagagttggg cagagacttc aaaaacgatg aaggaggggt 420
taggaaggtc ctagcatcag tggaatagaa taaaattact cttattaaga ggggaacctn 480
accnttagng ganaaatnct gnaaatgggt ctgagacaaa atgcnttana gcactggttg 540
ctagaaaaat caaacatagg agatttagga anatggangc ttgcaatgaa ttatgattgc 600
atcactatat ttcancctc atccctgtct tccagaaaaa aaaaaaatng gggatttnaa 660
aggtttattg gtncttaang gccagcccnt ttgaaaaanc cattggtttt tggnaaagga 720
aaaagggcca atttaaaang ggacctgtnt tngtaccagg ctttgttgna tttgggaaaa 780
aaa 783

<210> 4144
<211> 1063
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1063)
<223> n = A,T,C or G

<400> 4144
ncccccntnnn naaggggggg tggggggtct caactngcta gcggtgtgna cnncnaactn 60
gccnaaaaga aggntggggc natccngcac gagntgacgg ngcgggntcg ggntttgntg 120
nttggnanaa nccttccnat atctccagtg cggganncac tatctggtat ctctattgac 180
ctacgggang ctttcctnag tcantcgcta cnccactgna ctangngana ccacgcnacn 240
ntacncttan atncntcnng cacatctgaa ntcacnngga ngnttagtnc gcagcgnccg 300
nntccacann ccnngatcac gcgccctcnt nncnaananc atannctcac ttgntgttnc 360
nccgnntann ttangttngn ccnnaacaaa ncttacnncn ttntcagnan nactccacct 420
cttccnccga aactnnncnn acngnncatn nnanccngct tcnngcnnct ncnnnnnngc 480
ngnnccannt nntnaatngc cntcnnctca acacgcccaa accttacnta tatncctttn 540
accacncttn ncnnancccct ctaccncccg anctctcgtt nccccccatnt cnanttctnc 600
tctcncnacn cnccccntctc nccnnncctca ttcccccccnt naatngnncc tncatcncac 660
nacnttgnat gacntcttct cnnccntacc naccncntct ccaactncnt ctggcaaaan 720
nntcctcncn ttcatatact antnnntatc tnccctntgn acnntcttnc ngncgcaaaa 780
ntcanctcct acacnnnaca cntnncnctc ncgctngcac ctatctactc aactnctatg 840
cactcatcgn nnncaanatc tnacctcnca aactctntnc nactnccnca nancccccca 900
cnnanacana ngcgncaana caccnncaca nanggcgata cncttatnac nctcngancn 960
nanatcnccn ctctacncnc nancatncac gtntctcnct atcatcngcg ntcncncaac 1020
tcagcagttn annacnccat actnnctnca ngggctcaan tat 1063

<210> 4145
<211> 996
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(996)
<223> n = A,T,C or G

<400> 4145
gcnctttgna annttttcct aatgctggtt ttgctacgga aacccttggc aaatccggca 60
cgagcttcct gtgccagggg accgtggaga aagtgtcagg ggccgctcac tgcagcantt 120
ttgctctgct gcctncccng gcagcgtnct gnggggtngta caccaaaana gctgggtgtn 180
cgnggcgggt gcttgnaatc ccanatactg nangangctg aagctgcatt atcgcttnaa 240
ccnggggggn acgangangc canggagnca aaatgggggc tnttaganca aaactttgtn 300
tcanaaaaan aatgaataat nanacaagaa aatggganaa gccccaataa cttacnnngt 360
ntctcntggc cnaangcaaa aactccactt gnaaagccan ganaaaacgg ggnaananca 420
aaacaaanct atcacntgga ccnnnaaaca naaanccaaa ggattnncnt tccccnaaat 480
tggantnaag attcaatgga catggnacnn aaaaatncag nggtaccgga actccngana 540
ngcnntacag gttgcncaaa aangaaaccn naaaannegg ggagngnttn attaaagggg 600
ggnatttncg cncantttaa agggaaaggg ccacccaagn attnagncac aacacnntgt 660
tgacgggaan tccattntnn gcgaganaaa nggntgntac atccccaatt ntanaaaang 720
gcctnnaaaa aaanatnttt nnaaccncac naaatcnttt ancactaggg gatttcnaaa 780
aantagccnn nnnnaatatn gggggaaaan aaaancgatn nnaganatca tacncngaaa 840
aaccnngggg tnattngana ancaccnttt nnaagntann ggggcatngc ancncaaagg 900
gngcantaaa nanatagncn ganagnacat tanaacccct tggtganaaa aaccccaagn 960
angnccccaa anaggattgg ctnnaaaaaa aaaang 996

<210> 4146
<211> 783
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4146
ttnaagctna gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagct 60
aagccccaaa acgaacttca aactgggtgt ggtggcacgt gcctttagtc ccagctaccc 120
gggaggctgc ggcaagagga ttgcttgagc ccaggagttc gagtccaacc tgggcaaaag 180
agtgagaccc catctctaaa accaaaaagg taccttagaa ggtcacctgg ttggctaacc 240
ttttaaaggc aggggcgtga cacgtaggac acattgggaa tgtcttggct actacatgta 300
gccttctggg atatatgtgc ccagagggag aagcactgag cctgaagaaa ctagatgagt 360
ctcagaacca cagaccggcc agaaatctct cccaccatta tatcagcgtg atacaggtct 420
acattcattt ctacaaacag gaacaagttc cttgcagcaa taatttantt tattaacttg 480
gnttttttaa ttnacccttc cttttgaggt taantttcat cacattatgt tcaaanattc 540
ccatatnttc cgtaaaatta ccagcttaat tacangggca tttgttccca ttgggttant 600
tnaaaaatca ggangtttat ttaaaaaatn cctgagttct ttaagggctt ggctttaacc 660
ttttcaantt tccacctggn ccttgtanaa aaccagttca agcttggaaa accaaagttc 720
tttnatttgg ngggtcantt tcttgncaac ttttttggac tttgannccc ttggacanna 780
ctt 783

<210> 4147
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4147
ggntnttnaa acnnnagctc tngttctttt tgcaggatcc catcgattcg cccggaagca 60
tccaggatgt gggaacattg tgacatttgc acaattttta tttattgctg tggaaggctt 120
cctctttgaa gctgatttgg gaaggaagcc accagctatc ccaataaggg ttctctaatt 180
gccaacatga ttctaggaat tatcattttg aagaaaagat acagtatatt caaatatacc 240
tccattgccc tggtgtctgt ggggatattt atttgcactt ttatgtcagc aaagcaggtg 300
acttcccagt ccagcttgag tgagaatgat ggattccagg catttgtgtg gtggttacta 360
ggtattgggg cattgacttt tgctcttctg atgtcagcaa ggatggggat attccaagag 420
actctctaca aacgatttgg gaaacactcc aaggaggctt ttggtttata aatcacnccc 480
tttccaattt tccgggtttc gcntnnttgg gnttncggaa ttttnttnac ccatgccant 540
tcttattcaa ataaagtcct gaagttattt tgnaaattcc ccgntcattc ggggaaatgg 600
acccccttgcc ccaatcaatn gtggggnttc ttaacccttc cttnattgga aaccattnat 660
tcnacctcaa aacccccttt tnaaccnctt gnggccaact tggcttgggc accttggttt 720
gggctttcaa ttggggaacc tttaatggtt ccaccnnaag gtgttgggaa caaccctagg 780
ggaccccccа aaaaagtgga gccctcanaa nggacancca tnaat 825

<210> 4148
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(792)
<223> n = A,T,C or G

<400> 4148
tttnaaancg ttagctctng ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
acaccctgga ctcctgcagg ggaggacaca cggaggtgga caactgcaga tacacttact 120
cggagtggca cagttttact cagccccgtc ttggtgaagt gagttttcct aagtggccta 180
caaatctatt ttaattttct ttaaacttta taaataacta actggattct gactataatt 240
ttcaattaat tatgaatcta ctaattctac taattgaaag ctattatttt tcctcaattt 300
taatttagtt atgttcagat ttaagtggtt atttacttcc cctcctattt ttttaattga 360
aagaattact aaataatgtg tgatgagatt taaattactg tctcatggct ttgtgctaat 420
atttcccatc tgacaacttg taccttagaa accaaaaatg tggtaccagc aanacccagc 480
attgtncttt tacttttgnt nnntntnggg aaanaaactt gacccccatt tttaatttgg 540
ccttcaantt taaatggggt tgcnatgntn acttttttcag cttaaaantt tttgaaaagg 600
naaaagtant ggacttttttt tanaaatgga acaccctgtt attacttgct ggccacatgc 660
cgtggacttt ttannaaaca tgcttntact ggaaatttat antggtgaat ggtttgaaac 720
cggacccant cttgtgcatt ttttatggtt ttgggaatnc cntttgangg ncacactttt 780
gttaaaaatn aa 792

<210> 4149
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 4149
tnnntttcaa atncnaggct actngttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagngnag ctcancnnat gtatnttgnc acttgggagc atcatctttn caagggccac 120
tttgaggtga aatggntntt ttacatactn agcatcaatt tggnnctaaa atcaggagac 180
attcaccctt ctccacccca atttccaaca tcccctcctt tgnagagaga gcactntnga 240
anccactgag cccnatagcc ctagggccta naccactatt ncaaaangga agacttttcn 300
atnactatga canacaccca nnctggantc ctctgcctgn actnaaagct ctaaccccaa 360
cctnttttttc cagtgcaaac ccttntactc actaaaaatt tctntccact caaactagcc 420
tggatgccct tccctgaacg gggcttgtgt nttcccatta gctcaacttt gcttacatgc 480
ccaggtnnaa aacccccnttt cnncaggcca gacaaantgc ntnanttntt tcnnacacgt 540
aaaatgaaag gctcttgnng tncntnaaaa ggcctcttan aaactattgn ggagtcnttt 600
ttnccgtttg aatccanact tggattanga ttccattgga tgaaattttg gnacaaaacc 660
ncnaacttnn naatgccnnt ngaaaaaaaa atggctttta tttggggaaa atttggggaa 720
ngcttnntgg ctttaatttn gnaacctttt ttaagctgcn attnaacaan ttaaccaanc 780
accantggca ttctnttttg nn 802

<210> 4150
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 4150

ttnnttcaaa tcgctaggct actcgttctt tttgcaggat cccatcgatt cggaaccttt 60
gaatagtggt tgtacataca gtttttcaga gctggtgttt aataacaata tttttcattc 120
taatattaca ttattctttt tatcatttag gtctttatcc gtcagtgttt ttagagaact 180
actgcacttg accacaaact gataaatact tggtactgcc ccatctcact gttctgttta 240
ctttgtctta aatatctctt tttttttttcc caggcagcta gtacaccact gaatccttta 300
agctttcagt gtgaatttgt aaaactcagg attgaccttt tacaagcctt ctctcaactt 360
atctgtactt gtaatagcct gaagacaagc ccaccacctg caattgccac aacaattgcc 420
atgaccttag gaaatgacct ccagaggtgt ggtccgcatc tccaatcagg catgtcttaa 480
ctttnagtgc atttttatt tanccctttt aaaggntttt caaatttttan natgaaaagt 540
ttgnaaaatt tnaaaatcag ngggtttgaa ctcanaacat ttttcataaa atgtttaatt 600
cactcaactn gnctnggctt aaaaaaatag gctggatggn gttattanga aaagataaag 660
tggtttcatg gtaatctcaa tgggggggcta ccataattta ttttaaagag aaanggncng 720
atttttttaa aaaccttgga naangtttat aacttaaatt ntttnatngg aacttgaaaa 780
ccctaaan 788

<210> 4151
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4151
tggnnccnna agccctttgc nacttnntct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggagt tcaactgcaa catccgggca ccttcaaagc agatggtctg gtgcagccgt 120
cctcgtagca aggagagggc cgtggtggtg gcctgggaaa ggcggctgat ggtggtgggc 180
gatgcacccg agagcatcca gtttgtgctg gatgaggact cctacctggt gcctgagctc 240
gatggggtcc gcatcttctc ccgcagcacc cacgagttcc tgcatgaggt tccagcggcc 300
agcgaggaaa tcttcaaaat tgcctcaatg gcccccgggg cgctgctcct ggaggctcag 360
aaggagtatg agaaagagag ccagaaggcg gacgagtacc tgcgggagat ccaggagctg 420
ggccagctga cccaggccgt gcagcantgc attgaggctn caagacatna nccccaaccn 480
gactncccaa aaaattntgn tcanggcccg cttcttttgg aaagggtttc ctggacagat 540
ttccacccga aaagcttcnt gcacattgtg tcaaggacct gcgtgtgctc aatgctgttc 600
gggactntca cattngggat cccgttacct attgccaatn taacaggtta ccttcaagtg 660
ctgctggaaa gctctgttgc ggaaatttac ccctggcatc caatttccaa tnctgcnctt 720
ctaatcaggc ttacnggact ggccct 746

<210> 4152
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 4152
gnnntttnan natacagctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggcaaagt tccattttgt tgatctcgca ggatctgaaa gactgaagcg tactggagct 120
acaggcgaga gggcaaaaga aggcatttct atcaactgtg gacttttggc acttggcaat 180
gtaataagtg ccttgggaga caagagcaag agggccacac atgtccccta tagagattcc 240
aagctaacaa gactactaca ggattccctc gggggtaata gccaaacaat catgatagca 300

tgtgtcagcc cttcagacag agactttatg gaaacgttaa acaccctgaa atacgccaat 360
cgagctagaa atatcaagaa taaggtgatg gtcaatcagg acagagctag tcagcaaatc 420
aatgcacttc gtagtgaaat cacacgactt cagatggagc tcatggagta caaaacangg 480
taaagnatta nttgccaaaa aggtgtggaa agcntcattg acatgttcat ganaatgcta 540
tgctacagac tgaaaataat aacctgcgtg taaaattaaa gcctgcaaga nacngttgat 600
gcattgaggt ccagaattac acacttgtta gtgatcaggc caccatgttc ttgccaaaca 660
ggtgaaggaa tgaggagatt agtaattgat catagttttt aaagaatcga aatctaggca 720
aatttngaag tgaaccngat ta 742

<210> 4153
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 4153
gnnntttnan natacagctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggcaaagt tccattttgt tgatctcgca ggatctgaaa gactgaagcg tactggagct 120
acaggcgaga gggcaaaaga aggcatttct atcaactgtg gacttttggc acttggcaat 180
gtaataagtg ccttgggaga caagagcaag agggccacac atgtccccta tagagattcc 240
aagctaacaa gactactaca ggattccctc gggggtaata gccaaacaat catgatagca 300
tgtgtcagcc cttcagacag agactttatg gaaacgttaa acaccctgaa atacgccaat 360
cgagctagaa atatcaagaa taaggtgatg gtcaatcagg acagagctag tcagcaaatc 420
aatgcacttc gtagtgaaat cacacgactt cagatggagc tcatggagta caaaacangg 480
taaagnatta nttgccaaaa aggtgtggaa agcntcattg acatgttcat ganaatgcta 540
tgctacagac tgaaaataat aacctgcgtg taaaattaaa gcctgcaaga nacngttgat 600
gcattgaggt ccagaattac acacttgtta gtgatcaggc caccatgttc ttgccaaaca 660
ggtgaaggaa tgaggagatt agtaattgat catagttttt aaagaatcga aatctaggca 720
aatttngaag tgaaccngat ta 742

<210> 4154
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 4154
gnnntttnag ntacagctct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggcaaagtt ccattttgtt gatctcgcag gatctgaaag actgaagcgt actggagcta 120
caggcgagag ggcaaaagaa ggcatttcta tcaactgtgg acttttggca cttggcaatg 180
taataagtgc cttgggagac aagagcaaga gggccacaca tgtcccctat agagattcca 240
agctaacaag actactacag gattccctcg ggggtaatag ccaaacaatc atgatagcat 300
gtgtcagccc ttcagacaga gactttatgg aaacgttaaa caccctgaaa tacgccaatc 360
gagctagaaa tatcaagaat aaggtgatgg tcaatcagga cagagctagt cagcaaatca 420
atgcacttcg tagtgaaatc acacgacttc agatggagct catggagtnc caaacaggtt 480
aaagaattan ttnccnaaaa ggggtttgga aagcttcatt gacatgttca tganaatgct 540
atgctacaga ctgaaaataa tacctgcgtg taagaattaa agccatgcaa ganacggttg 600
atgcattgag gtccagaatt ncacacttgt tagtgatcag gccaccatgt tcttgccana 660

cangtgaagg aaatgaggag attagtaata tgatcatagt nttttaaaga aatcgaagat 720
ctcanggcaa atttttagaa gtgaaccatg atga 754

<210> 4155
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4155
gnnnnnnttt nngagggggn tttggggggt tttcnaattt ttctancgng tgagganctc 60
gaactnnccn aaanaaanan gcgggtcgaa ttcggcacga gatttgattt aaaaaaggag 120
aaatgttcac actcagtcta gaccacttag gtatgcagag ttgcatcctg aaagcaattg 180
ctcacacttt ccttaatata ctccctntcc acctttgcaa aaccttgatt ggcatggagc 240
ctcnactgct tgcattgtat acacatgtaa taagaaagca ttaaatctct tggaaattag 300
gaattgacaa gataaataga taaggcataa agccaatttt tcacacatgt ccttaggctc 360
ttgtaaatgt gtgcctggtg ctgctttgac ttnccaggtc cgggaggctt tctctttctc 420
tcttntccca angtgaggct ggcaagctat cagnctctcc agagcaaaga gaaatggcag 480
gagaattgac tgcgtgaacc ccacagggcc ggtagtggaa aaataaatgt ctaaattgaa 540
agggtcacac tngtgtanat ggtgactgtc ntgcttgcan cagctgagga caccgactgn 600
gtgtagcgag tgtcctgctt ttcatgttca catctggctn aataaagaan tcacgaagca 660
nacctngcct tggctnaaac cctntgngct ggacacaaat gactttgatt ncaaactcaa 720
gtccttggna ntgtcacaaa ggacnaaccc ctggctggga caaaanccta cna 773

<210> 4156
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4156
gnnnntttnn nnnntttnnn nnnngttntt gaccanaggt aanacnnngg gaattnctct 60
ttctgcagga tcccntcgat tcgaattcgg cacgaggcag aaacaatagt caggagtttg 120
agattnggct gattaacatg gtgaaacccc gtctctacta aaaatacaaa aattagctgg 180
gtgtggtggc gggtgcttgt aatcccagtt actcaggagg ctgaggctgc attatcgctt 240
taacctgggg ggcggaggtt gcagtgagcc aagatggggg caataagagc aaaactttgt 300
ctcaaaaaaa aataaataaa taaaaaataa aatatgtcaa gccccttctc ttcctgtctc 360
ctctcgtggt gtgtacttga ctccccttct cgccagatct cacaggactt tcagatttaa 420
gcaatacctg gccaagaaac aaaagcaaaa tcattccatt cccccagtgg attcagatca 480
aaactggtaa taaaatcagg tcgactccaa aaggagacat tggagaagaa cgaagcgggg 540
tctataagga attgcacgtg agatggcaca catatttatg ctgtgtgagc attacaatcg 600
cgttaccata tcaagctgaa aatgtcacca ctatctggag tgttggaaat gtttattggg 660
aatatgtntt ttctctgaat ctgctatgaa cacgtnaatt gggtgggttc aataataaat 720
atgtgagact tttcatttca aaataaaaaa ggcaaatgat gtaaaaaaaa aat 773

<210> 4157
<211> 809
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 4157
cnaantttc taatgctgnt tctatncngn atnctnggct anccnacnac nnnggatncn 60
aattggcacg aggcttcatg agagactgac ngctatnacg ggtcgtggca cttaangagg 120
actnttctgg ccccagngtg tgctgatgac acatacacac ctgacaatag ctngngtntn 180
ctctgnncct ttnnctctgt naccancatn cacnngatct aaaacccttt ctnaatatct 240
atcntggntc atccttggcc atgcagngtc agagctntat gnacttnatt acnctttncc 300
ttngaacttn tnntnagnta cngataangn gctatctttc agctggatga tnaacgnttt 360
nntctgtacg nacatggacg atgntttcct caaacctcta naactataga ccagtcactg 420
ntacntntan ccagacatga ttnnatacat cnatgagtna gnacaaacca caactanaat 480
gctgtgaaaa aaatgctgna tntgatnaaa tatgaaatgc tatcgctata ttncttccnn 540
catangcngc ngtnntcatt tagcaacaac aattgcatcc attaaaatnt ttttaaggna 600
cantttggan ngtcccccaa tnttggngaa atncnanggc cccaaaatgc cangtgccnt 660
tananacccc ggggacccca acctttttnga aaagcgttnc acaanaaggg gtnaaagttn 720
nanncgcctt ggccnnnaaa anaaacnggg naataacctn ggttaaccct gnnntttnaa 780
actngggnnt ttncnnnttn aaaaaaaaa 809

<210> 4158
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 4158
ctaanagttt cntaatgctt ncttctaata ncntaattac tcaggnngct cnannnaaca 60
ggcgntgngg ncnctcaccg actcctccct ggtncacang cttntgnggg gccaccaagc 120
ccctnctgng ccccctccca tccatantgc atggcgnntg gngcccccnt ggctccaaga 180
cagatcangc ccnancttgc ntctaccnnn atnccnnctg anaacgtgcc actgaatnaa 240
ntntgggaaa ccagaaaaga tatacattaa tttaagaatc atttactatt taaatgagac 300
aatcaatatt attnnagaan cannnatccc aaatgagaca atcatnntta anttncaaga 360
tancagaagt gaccaatgtc atttnacaac acctanaaga tnnactggtn nntcaggtaa 420
angtagantt ttactganaa ncctgnatgn atttgacttg tgcttttgta ncnntnntnt 480
nccttacttn tttngntttc catancctan taannatgca ttactttnac tggatataag 540
nnnnatcctt naaaagggtc tttctnttag ctntacaggt nnacaatnat nnctggnctc 600
ttgacncatt tgnnacttan ntnccttann gcttttnagt ataantttcn aaancnnggc 660
cntttagctt ttncntnagg ncanttnacc cccttnttaa aaaaangnnt anttncngcc 720
nnaaatttgg ncntgaatct ttctccannn tcggcttttc cantattttt ataaagccnt 780
gganagggnc ncaaantggn tttggnctta anttccntat atacttanct cncg 834

<210> 4159
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(814)
<223> n = A,T,C or G

<400> 4159
nnnccttggg aacctcacng aaanccttcc ttctaatnct ggcacgcttg ganatcgaac 60
tnnctcnaaa nanatnggtt tgnggcctgg ggcccttcta gcctgagctg gtgacctggg 120
catctgcacc ctaaccccag ctgaccgagt cagatctttg tccagtgttc tgaagatcaa 180
atgccgtgcc cttttgcaat ataacaccag ctgcttttag tccacagcct ctgacatgcg 240
atttgaagac acgttttatg gagcagacat tatccaaggg gagagaaaga gacaaagagt 300
gctgagctcc aggtttaaga atgaatatgt ggccgaccct gtataccgca ctttttgaa 360
gagctctttc canaagaagt gccanaagag acagtagtct gcatacatcg ctgcaggcca 420
cagagcactt gggttggaag agagaagatg aaagggacat ccttggggct gtgcccgtga 480
gttttgctgg cataggtgac agggtgtgtc tcttgacagt ggtaaatcgg gttttcagag 540
tttggtcacc aaaaatccaa aatacccccа atgaaattgg acgcagcaat cttgaaatca 600
tctctaagct ttgctttcac tttgtgaacn agttgncctt ctattgatcc caaaagaaag 660
ttttctaagt taaaaggaaa ttcctangtg aatcaacccc acnagggaaa aacccacttg 720
ccacaataag gaaggccggg ttccccccttg gtgccnggtt taangggccc cntgtaangg 780
naaacacnac cggggnacct ttttttttтn taat 814

<210> 4160
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4160
tnnnnttttg aaannttтcc taatgcantn gngaaacttc tnaaaccntg gcaatngctc 60
tttctgcagg cagcccagcg atncgaattc ggcacgaggt tagagtaagt aaagatatng 120
ttaagaaaag tacttaaatc caagaaagag agtcaacaaa tatttatacc attctctcat 180
taagtgacac tggttccata aatttaaaga cagcggttca cccatatcta tggntntgca 240
ttccatggnt tcagttacca cagtcagcct ctgtctgaaa atattacatg gaaaattcca 300
gaaataaaca attcataagt tttaagttgc atgccgttct gagtagcttg atgaaatctt 360
acaccatccc cctccatcca ggctagtaca tgactcatcc cctngtccag catatccaac 420
actgnctatg ctacccgccc attagtcact tagtagccaa ctcggttatc agatcgactg 480
tcatggnatc atagtgcttg ngttcaggta acctttatct tacttaatag tgaccccaaa 540
tgcaagaatg acataatggt ataacnggnc tattnnatca ttaggnaatg gnantagnct 600
cttactgggc ctaaattata aattaaatcn atcatgggca tatatttaga ggaaaaaacc 660
atgggggacg taggggtngg nccnatnngg gggtcaaaan atccactggg aagnctnaaa 720
aacatanggn ccngaggaaa aggaangagn cccggaaacc ttnaattntn cttaa 775

<210> 4161
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 4161
gtnnnctttc taatggcttg gctactcgcc ttctaatntt ctaatncttg gcnactcgtt 60

ctttctncan gnaccnntcg ttncgaattc ggcacgaggg aagggaggtt taaggaagag 120
actgtggaca gaggtgttag ggaaggtgtc agagaaggtt aaggagccaa catggatcat 180
gggggtggta cagtgttgcc agggctgggg aggattggct gcagtgtggg gtacccagcc 240
gctgccatgt ggagagggac ctgtcactcc tgctgtgaac tctcccttct tctgccctct 300
gacctcctgc tggtgcctcc cattggctaa acacagttga tggccagtgc actggggagc 360
tgttcttgga gcccacaggc atctgcttct tggcacagag cagacaatgg attgagtccn 420
ggagggaagg gaactagaga atacccaagt cccaacccca ngcgtttgct gaatgtgtct 480
aatcttcctt ttctacaaac ccatctgacc tctnccccte ctctccacgc caagctaggt 540
cccaattctt cctcaagctc cactccttcc accctgtaat cttttntatc accctnccct 600
cctnaacacc ttgggtccgg ctttacaagn ttccnttccc gngacttagc cctttccccn 660
acctttgccc aancaaattt tacttcttta aaaaaaggtg gcttggaanc ctaaaagaca 720
ttantccaan ggttaaaggc ctccctttt cctttttatcc ccaaatcaaa aaccctttta 780
aggctctttt ttcattcaaa attttaaaaa ccccnct 817

<210> 4162
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(871)
<223> n = A,T,C or G

<400> 4162
ttttcccnaa annngcntng gctacncgtc tttcaaaatn ttcanatccc ttggcaactc 60
gccncnnnac gcacaagaan tntgngttgg cgttcttgag gagctnagcc ttcgctcctn 120
aggatcacag gcttncatgt tgaagctggc agtgctagag gctannncct atctgngtga 180
cagcatttna natntancag gaccgacttt gangttncca aatatntata ggcannctgt 240
aaatcatnac accgtntgcn atanctctct tcannctctg tctnnctctt ntaactgnag 300
caaaagttct ttctcangca acaacnttcn tnntatcctn agnagncnat actgtgttcc 360
tnnncatgtt cggcgaacgc tattacgnct gactncacnc acncacntga catngacccn 420
tatnncaaac nngntangga aaagctanat gtctgnangn tgctnncngc ttgangantg 480
ctaanagcnc ttnagancat ccattanctt tctnnangct tgangtttta nggctnatan 540
nnctntggaa nttangtatt ctgggnatga ccctncatng cttntnanac tattnaatcc 600
agacctcgan cnntannnct ggaangtncc ncanccnaan nantatcctt ggggaacngg 660
nggtactgna ctntngatca anccnaanan ntggnantga nccanttggn aaattgaatc 720
cntaatcntc ccctgggcaa cnnannggng gcttgcttna aananntgga accnnannat 780
gcccgtcaaa ncttccctaa ttancctngg tanactgcna ctggcanntc tnnatanggc 840
naattccana agnnntgant nttattcacc c 871

<210> 4163
<211> 829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(829)
<223> n = A,T,C or G

<400> 4163
tttctaaatg gcttgggnnn cnnccttgac caccgaaaac gnttggcaac ttnctctttc 60
tgcangancc catcgattcg aattcggcac gagataattt ttttagtttg tttttgagac 120
tnctctgtca cccaggctga gtacagtggc atgatcatgg ctcacagcag cctctcaacc 180
tccctgggct caggtgatcc tcccacctca gcctcctgag tagctggtac cacaggtgtg 240

tacctggtta atttttggt gtttcttata gaggcaggat ctccttatgt tacccacacc 300
ggtctcaaac ttctggactt taggaatcct cctgccccgg cctctcaaag ggctggacag 360
gtgtgagcca ccaggcctgg ccccaagctt gtacagcagc atctgcccca ttatacctct 420
ggcactcagg cagtgatgcc tcttggccct ctggcaaagg gagcacactt ccgttagttt 480
tgtatttgta tggactttta tacctatgac gtttctggtt ctgntaatct tgtttttccg 540
actgattgaa actttcatct ctggtatcaa ttggggngtt ttcttagaaa aaagcttgtg 600
gtgaaagggg ggcaaaaaaa aagaaaccaa ngttctgaaa gttcacctct ttgaattgca 660
acccaccctt ggtanaaaga atgggaatca atnggaatgc cttggccnaa tttttgnanc 720
cnnttttttt ggcaaagnaa aangggatcc aaaaagtgga aaccgggaaa aaanccttgg 780
ggnaaaccct ttgggtnggg aaanggggtt gggtngnacc caattccna 829

<210> 4164
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4164
tcncccttc caaaaagcnt tgggnnncgn ncnttctaac tttccnaata cntgggcaac 60
tcgctctttc tncangcagc nnntcgttgg cgaattcggc acgagacttt caacatttca 120
tggatagaat aagtaatggt gggttagaag aaggaaaacc tgttgatcta gttcttagct 180
gtgtggacaa ttttgaagct cgaatgacaa taaatacagc ttgtaatgaa cttggacaaa 240
catggatgga atctggggtc agtgaaaatg cagtttcagg gcatatacag cttataattc 300
ctggagaatc tgcttgtttt gcgtgtgctc caccacttgt agttgctgca aatattgatg 360
aaaagactct gaaacgagaa ggtgtttgtg cagccagtct tcctaccact atgggtgtgg 420
ttgctgggat cttagtacaa aacgtgttaa agtttctgtt aaattttggt actgntagtt 480
tttaccttgg atacaatgca atgcaggatt tttttcctac tatgtccatg aagccaaatc 540
ctcaatgtga tgacagaaat tgcaggaagc agcaggagga atataagaaa aaggtagcag 600
cactgcctaa acaaagaagg tatacaagga agaggaagag ataatccatg aagataatga 660
aatggggtat tgaanctggg atctgaggtt caagaagaag gactggaaaa aatttttcaa 720
ggcccagttc cagactttac cttgaaggga attaccaagg ggcattacac aaatttccaa 780
aaaaagcang aagaatt 797

<210> 4165
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4165
tnnctttcta atgtttnnna atgctggtac cctttcaaan cncttngcgc cagaatgggt 60
ccatggctgc tgtgaatgga cacaccaaca gcttttcacc cctggaaaac aatgtgaagc 120
caaggaagct gcggaaggat tgaagtcaaa gaattgaaac cctccaaacc acgtcatctg 180
attgtaagca caatatgagt tgtgccccaa tgctcgttaa cagctgctgt aactagtctg 240
gcctacaata gtgtgattca tgtaggactt ctttcatcaa ttcaaaaccc ctagaaaacg 300
tatacagatt atataagtag ggataagatt ctaacatttc tgggctctct gacccctgcg 360
ctagactgtg gaaagggagt attattatag tatacaacac tgctgttgcc ttattagtta 420
taacatgata ggtgctgaat tgtgattcac aatttaaaaa cactgtaatc caaacttttt 480

ttttaactgt agatcatgca tgtgattgta aatgtaaatt tgtacaatgt tgttatggta 540
gagaaacaca catgccttaa aatttaaaaa gcagggccca aagcttatta agtttaaatt 600
aagggtatgt ttcaagtttg tattaatttg taataactct gnttaagaaa aaatcaaagg 660
accatgattt atgaaactaa atgtgacata attttccagt gacttgntga tgtgaaatca 720
gaccacggac cttcagtttg nacctattgg ctttggaatc aaccg 765

<210> 4166
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4166
ntctttctaa ttacttatnt gtcatggaac tcccactntc tcnacnnanc naggcnntgn 60
cgaattcggc acgaggcaag agatttcaca gacctgatng tttttnatga agatcgtaaa 120
accccaaatg gacttatttt gagtcacttg ccaaatggcc caactgctca ttttaaaatg 180
agcagtgttc gtcttcgtaa agaaattaag agaagaggca aggaccccac agaacacata 240
cctgaaataa ttctgaataa ttttacaaca cggntgggtc attcaattgg acgtatgtnt 300
gcatctctct ttcctcataa tcctcaattt atcggaaggc aggttgccac attccacaat 360
caacgggatt acatattctt cagatttcac agatacatat tcaggagtga aaagaaagtg 420
ggaattcagg aacttggacc acgttttacc ttaaaattaa ggtctcttca naaaggaacc 480
tttgattcta aatatggaga gtatgaatgg gtcccttaag cccccgggaa atggatacaa 540
gtagaagaaa aattccattt attaaagtct gacagaatga tattgnattt gctgaacaag 600
cctatctttg aactntggga aaaattattt tttgacagna atactctttt caaaaatggg 660
catttgcttg atttccanaa acctttcncg ttctgggacc gaattaccca aatgcccatg 720
gaatttccca ctgggggggtt taatgtnnaa aantcccaan taaaaagttt ttttcg 776

<210> 4167
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4167
tnncttcaaa ctttcgctct tggctttttg caggatccca tcgattcgaa ttcggcacga 60
gagttttgga tgagacttgg tatggtccat tctgggacaa aattcctctc tctctctctc 120
tgcggacccg tgaaatctag aaaataagtt atttgcttct aaaatacagt gatgggacag 180
acataggata gacattccca tttcaaaagt gagaaattgg gccaggtgca gtggctcaca 240
cctgtaaccc cagcacctgt aatcctagct ccccaggcgg ctgaggcagg aggattgctt 300
gagcctggga gatcaaggtt gtagtgagcc atgattgcgc caccttttatt ggaaactttt 360
attccagtta ccaataacac attcctcatt tcctccagag acctcaccag aaacaccttt 420
aatattcata tttctagcag ccttctgttc ataacaatat atgcatcctg ttaagatgat 480
aggagatttc tctgcacctc tcctctttgt gagcctgcag ggacattccc tttaatgtcc 540
atatttctac cagcagtctc ttcaaggcag tctaggtttt tcctaacata cacctcaaaa 600
ttcttgcagc tttggccaag cacagtgcct nacatctgna atcctaacac ttttgagagg 660
ccacatggac aagatgcttg agctcaggag ttcaagacca gcccgggcaa catatgaaac 720
cctgccttta aaaaaatcaa t 741

<210> 4168
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4168
gnnnnntttn nnnnnnnttt tggaaancct tnnnnnnnnn tttcnaatnc ttgggcnact 60
cgttctttct ncaggcagcc catcgatncg cctttattca ttttcactgt tatccagaat 120
tccattatat gaatatgcca taatttttaaa gttcacgtta ctattgttaa gtgtttctaa 180
actggaaatt actccagaca atactatgag cacacctgtc tgtggctttt gatgagcatc 240
tgaatgcagg ccaaacttgg cctgccaaac agtttctgcc gttgtttgta ccagttcaca 300
ctccctgcca aacagtttct gcaatgtttg taccggttca cactcccacg gcagcacatg 360
aaagctttat ttgctccata tcctctcaaa tttagaaata attacaaact tatgtaaaag 420
ttaaaagtac tatacaaata attttatgcc tgaaagttgc caagttcatg ccatattact 480
tctaaatatg ttagtgtgtg ttttctacaa acaaggagat tctcctgtgt accagacagc 540
agtcatcaaa gtcagagaaa ntaacatcag tacattgctg ncatctaatg cttactccta 600
ctcaaagttt cactantttg cttccaaaag tgtcctttta tggcaggang gatcanaant 660
aatgtatagg ccaagcacaa ngccctggaa tctggaaatc ccagcacttt tngggaaaac 720
caaataggaa ggttgccttg gaactcctga cttaaggcga nncanccaac ttaaaccttc 780
ccaaagngg 789

<210> 4169
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 4169
gcttggctct tgttcttttt gcaggatccc atcgattcga attcggcacg aggttttggt 60
actaaaggcc gagactgttg tggcgacggc gacctctacg gcaacggctt aagctctcgg 120
aggagtggca gagtacgatc tgaaggaggg gcttctggtt agcccaggtt ccatcataat 180
gaatggatcc aatatggcaa atacatcacc gagtgtaaaa tccaaagagg accaggggtt 240
aagtgggcac gatgaaaagg aaaacccatt tgcagagtac atgtggatgg agaatgaaga 300
ggatttcaac agacaggtgg aggaggaact gcaggagcaa gacttcttgg accgctgctt 360
ccaagagatg ctggatgaag aagaccaaga ctggtttatt ccctcacgag acctgcctca 420
ggccatggga cagttgcaac agcagttaaa tggactgtca gtcagtgaag gtcatgattc 480
tgaagatatt ttgagcaaaa gtaacctgaa cccagatgcc aaggagttta ttccaggaga 540
gaagtactga gccgagaaag ctttgaggaa gacttgtctg tccccacatc tggggatagt 600
aatgcacaaa atggtggagc ttaagaaggg gatggggccg gccaaggggt gcacancggg 660
aaagggantg gtggcttaca atactgggac tctgagtact aatatgctca gtcttattct 720
aaaaaaaa 728

<210> 4170
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 4170
tctaaacgct tggnncttgc tctttctnca ngnanccnnt gcgntncgaa ttcggcacga 60
tctagatatt gcccaatcgc tgcccacagt gcacatacct ttccaccagt cacatgtgag 120
agggcagatt ttccaaatgc tcatcaccac ttggcactgt gtggactata attttggcca 180
gttaggaaat ggcatctcat tgttttcatc ttaatttgcg tcagcctgat tactcattga 240
aacttgtgag gttgagaaac ttttcttaag cttattggcc attcaagttt cctcctttat 300
gaaatggttg ttcatgtcat ttgctcattt ttatattaga ttgtttttct tttttccagc 360
tgacttgtag gaactctaca tcttatcaat attaatcatt tatcgaaaac tatttgggtg 420
ccattatctt ctcctagtca atgtttttg tttgtgatat cttttataat atataagttt 480
ttaatgttgg cagaagtaaa gttaatcttt ttggctgtgt tgtgtgtctt gtttgatgta 540
aagatagttt ctgtaatagt tttgcagttt gattgntcat ctttaggtct tcaattcaac 600
ctgcacatcc atcccctcta tcctctttct tactctgttt ttctccatac cacttatcat 660
ccaataatat ggtcatgccc tttattnacc ngntttgcat atataatttg gcttgtnccc 720
ggttccttcc ctana 735

<210> 4171
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4171
tanacnnatt ggtntgatgc ntggtgctgc ctgcgctgcc ttaagaagct gagactcaca 60
caagtgttaa gagggtatct ctggagacan ngtagagata gaccctgtta cgaatcagag 120
ggccagcact aagttttgga ttaagcagaa acccatctna atcgattccg acctgctctg 180
tgcctgtgac cttgctgaag agaaaagccc cagtcacgca atatttaaac tcacgtatct 240
aagccaatca cgactatnaa cacctctact ttgaatcgga cgctgctacc cgtcaatgaa 300
attgtgctca aggttaacta catcctggaa tcgcgagcta gcactgcccg ggctgactac 360
tttgctcaaa aacaaagaaa actgaacaga cgtcgagctt cagcttccan aaggagaaag 420
aaaatccggg cagcagttga cactggcctt cagcctnaat ctgttcccgt agcttnagaa 480
ccttgcctgc cagggccaag tgccctagag cccaccccgg tgtcctgaan tcctnggggg 540
ggaggccagc cccctgggct tactgggcac anggcaagtg gggctctcng gggaaaggtg 600
tctgggngcc cccttangaa gggaancgct ggggacattt gccattggga ccggaaagtc 660
ttggtttggc anttggcttt ngataancca tgctttgngg gtcnagacca cccncctaaa 720
ggagccacgt ggccngccaa gccaccttaa ttgcctggca cctggcccng gng 773

<210> 4172
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4172

tnnnngtttc ctantnnntg ggctactcgt tctttccgca ngatcccntc gntncgaatt 60
cggcacgaga ggcagtgact gccttcggct ttttttctgc tgactaagat ctcctataga 120
gagctacaac aatgcccaaa agaaaggctg caggtcaagg tgatatgagg caggagccca 180
aagagaagat ctgccaggtt gtctgctatg cttgtgccca gttacaccca gaagtgaaag 240
ccctaaaaag aacatcaagt tcaagggaaa atgaaagaca aaaaagtgat atgatggaag 300
aaaacataga tacaagtgcc caagcagttg ctgaaaccaa gcaaggaagc agttgttgaa 360
agaagactac aatgaaaatg ctaaaaatgg agaagccaaa attcagaggc accagcttct 420
gaaaaagaaa ttgtggaagt aaaagaagaa aaatattgaa gatgccacag aaaagggagg 480
agaaaagaaa gaaccagtgg cagccagaag taaaaaatga agaagaagat cagaaagaag 540
atgaagaaga tcaaaacgaa gagaaagggg aactggaaaa gaagacnaag atgaaaaang 600
ggaagaagat ggaaaagang attaaaatgg aaatgagaaa ggagaagatg ccaaagagaa 660
agaagattgg aaaaaaggtg aagacggaaa ggaaatggag aagatggaaa agagaaaggn 720
gaaagatgaa aaagaggaan aagacngaaa ngaaacngga gatggaaaga gaatgaagat 780
ggaaagagaa ggagttt 797

<210> 4173
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 4173
tntctctacn nanntcgnga acccttgntc ccacgaccct cgtncgaatt cgggcacgag 60
gtgtgttctg tgggagggtg tctgtggtga tgtgactatc agggtgggcc tgtgctgggg 120
atggggcagg cctgggtctg gagaggattt tgtgtgaaag taaatggggt gtttgaggcg 180
tatgggtggc tgttggtgtg gggaggcatc ttgtgtatgg ctgttgggaa cagcaaccaa 240
aaggtgcttt ttggttttat ttgagatcaa gattgtgttt ccgcttaatt actagtttgt 300
ggtctatatc atagaagtta tttcccaccc cattttatct tgacaacccg tgtttgcatt 360
tctgtaaaac ttctacaact tctggtgtca agaactgtcc agaagatggt actgttaact 420
ggtatttcct ttgatgtttt gattttgaaa gtttactctc atgcaaatgt ttcangcgta 480
catacatagg cagaaagcaa atttttaggt gatttgtctg tntcttggat gaaatttaaa 540
gcaagcttta atggtctgac ttgntcattt gaaatncaaa aaaagtaagt gaaatttaat 600
ggtttngcat taacctaaag gaaatcttga agattnatgg ttgaaggaaa ttggtatggg 660
ccatgccctt tggtggaaac cccngaaant cnttttttaaa gtttaaaaat tgaaaaaaag 720
ggtttttaaa tttgctttgn ggccgtgttn taaaattggg acccccccatt tttanaaatn 780
attttttttc ccgtcttccc ttttaccaaa cna 813

<210> 4174
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4174
gtnnnnnttt tctaatagct tgggatactc gttctttccg caggatccca tcgattcgaa 60
ttcggcacga ggttctcagg ccttccaggt agtccccttc ctggacttaa gagtgcaaac 120
tcttctctgt ggttctagcc ttgggcagaa ttatatccca gagaccacag agcaactgtc 180
aagctgctta ccccctcacc cagggctaca gcctgtgccc agccctctaa tttgtgcctc 240

tcttgtgttg ggggtggtgg gggttattcc tttccctttc ctgctctggc ctccttgaaa 300
gttcagagta cccagtacaa gtcagcttta aagtacagct tttagtgttt cctgggttgt 360
ttctctgggg ctttagtgag ggacctttgc cctctggttt ttcttgcctc ctggtttang 420
gagcatctca cacttgttag tatctggttg ttgggccagc ccgtgcctnc tctagatctg 480
gagccaggcc aggcaggggc cacgtgtggg ccagtcagcc actacaagat tttgctaagc 540
tttgggctgt tggcagcatc ttggacctca tgcctgggcc tgaatgangc tctttcttaa 600
gtggttttac aaagtttggg ttttatttat ggagtgactt acccccttcca ttcagagcag 660
cccacccagc cagcccttna accttntggg ctcctgntgc ttaaaggcaa accgcctggt 720
tgggctccac cctgtgcatt gggaacccaa ccacccatgc tnaccggnat ttttcctcat 780
aaaagt 786

<210> 4175
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4175
tctaatgttn gaaanccttg ttctngacca tcccgggctn atgcttgggc acgagagatg 60
ttcttatccc caagagctgt ataattccag acagaggagg caggcagaca cctctataga 120
ggacttagaa acgactgttg tgagacacat tcagtgctca ggatggcaag tgtagtatac 180
cgttagaaag aacattcctt tggggtgtgg cctaggaagt tttccagatt tttcactagc 240
gtacatctaa ggaaaaccgt aaacacagag ctgcccttta ttcctcccac aggaagaaat 300
gtacatcttc atggagtact gcgatgaggg gactttagaa gaggtgtcaa ggctgggact 360
tcaggaacat gtgattaggc tgtattcaaa gcagatcacc attgcgatca acgtcctcca 420
tgagcatggc atagtccacc gtgacattaa aggtgccaat atcttcctta cctcatctgg 480
attaatcaaa ctgggagatt ttggatgttc agtaaagctc aaaaaacaat gcccagacca 540
tgcctggtga agttgaacag caccctgggg acagcaacat acatggcacc tgaagtcatc 600
actcgtgccc aaagaaaggg ccatgggcgt tncggccnac atctggagtc tggggtgtgt 660
tggcntagan atggggactg gccaaaagcn cttggcatga ntattgannc caccttttcaa 720
attatgtata aanncngggg atggnaccta aancccccca atcccngnan anaattaaac 780
ccctt 785

<210> 4176
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4176
cnnnncgnnn nnncnacnan nnnnccggnn aacnttcnag gccnttnnaa ntcccnnttc 60
naangcttgg cnatcgnctt tcnncangna cncngcgtnn cggttggaga aaccaagctg 120
accaaaacat ggtccccacc ttttggagct tacagtctgt tctggggaac agagattcag 180
ccagnagtca agaaacactg gatgccagct agattatctg ntctgtgctt tggtgtctat 240
aagtacatat gtggatatgg gttcatttta tccctaaact tagtaccaaa ccagcattta 300
atatctaatt ataaatctaa tntggcctaa actttattat tgcacactgc ctgaacaaaa 360
cctatttgtc tctatgtaaa ttntttcctc atggaacaag ggtgtgaaat gaaaatattt 420
taggatttat tcaaaaacag actattctgt tttcagcttc agaattgttc tttgaatcct 480

aaggaacctc tgtcaacagt ngaggcngct gttgaaaaga aagaaganng aggcngaaat 540
ctctcangga gaattatttc ccnttctntt ctatttcaga tacctggagg ggtggggaga 600
ngtaagaatt gtaggggagg atcannnctn ggggaaanct gtgaccagct naatgaanga 660
atgatgattg aaanaaccct cttgcatctc tnagntaccc ttcngcntcc cttnnaccca 720
ntggtataaa atntngggcn tngggcaacc actgaccatt tgncaangcc ttaattggnc 780
cccaaatatc cnacactggt ccnagancct taaangtctc cagcacccga cncnntnana 840
anncgnnc 848

<210> 4177
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 4177
ttctaaanan ntttgggnnn gtgnncttct aatttttcnn atacntggcn actcgnactn 60
tctnnangna gcnnntgngt tngcgaattc ggcacgtagc tgagcacctc gtctctataa 120
aaacaaaaca acaaaacata aacaacaaca acaaaaaact atgtgatagg cattgtgtta 180
ggcactagaa aatagtgctc aaacaacaac aacaacaaca aaacatgatt cttgtctcaa 240
agaatgcaca atgttgggga aagacaacta aaaagtnata aaacataaag tttgaaggat 300
attatgatag angaatnata ggatacgttc aatcatttga aattcntgaa tgtcatcctt 360
ttgggtggag caccgagagg gtttgtgaaa aacttcccac ataaagnaat ntaancnatg 420
cattnnntaa aaatactnat gtntttnnaa aaatgaatat ggcaaatgaa ctgtnctgcc 480
tancatntga tnaaggnntc acttttccat nccnanggna ttagcttatn nnacttcana 540
catttcaaan gtggaaaaga ctcancanat tcaaagcaac cattcttgta aagtttaatt 600
tccntgtgan tcgttcanaa ttnnaatnct tgggaaaaat gaacctgcaa taagaanaaa 660
aattggtttc acttttttcaa tnggggttaa aggtttctgg acttcaccca aagtggcttt 720
ttncaaatgg gggggncccn taaaancaan tatttaatga nggaacttat ntttgcggtt 780
tagcnctngg gggnatnctt ttgncaaaag gtttaaaaag ccaattnggn aangnt 836

<210> 4178
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4178
ctnnctttnn ncctnaagtg aaatcgttcg gtttancctt tngcaggatc ccatcgattc 60
gaattcggca cgagcttagt tccacaaata attattgatt tgtttaagcg tgatgtatgt 120
gcttgctcaa ggaattagaa gatgagtatg acaaagctca ttccctcagg gagttgagtg 180
tttcagaggg atgaagtaaa agaagatttt aaaactacaa gtagagtgta agaagtatca 240
cgagaaacat caacaaaggg ctgaggatag aaggtgataa gtctcaagta tctcaagata 300
ttcagcagtg aatcttaaca taaatttgct tttaggggaa gaatttcaag catattgata 360
ggtcttaaat tttctagtct ctctgggata gtaggaagga gaatgatttt taaaaagttg 420
attatgtagc atggagtttg gggactagta aaaattttat tgaaattatt tgggaattgt 480
tttacagttg tttttagtgg aggttgtatt tctgaaaata ttgcatttta gtgtgatgat 540
ttactaaaga agtagcaggg acttattcta aggtaggaga tagaaaaact aataagtaaa 600
aatctgctag caactttaaa tggctgtcaa actttttta atgattaagt gctaatgggg 660

ggcagatgga aattgtaaag ccagtgccan aacaattgag gtatagaagt ttttttctgt 720
caattgctct acttttgaaa gagaagaaaa ttnganggca aaatttaagt cattt 775

<210> 4179
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 4179
tnncngttnc ntattanntg ggtaatngct tggntctngn nctttctnca agatnccatc 60
gattcgcagc gatagcccaa aggctctgca gtattccctc caatggccaa ggattccgtg 120
tgtcatctgc aggagtgagt aggcctgctg tatttcttgt aactgctggg tgttacaaaa 180
taagttacaa tgttttacac tttaaaaaaa aaaaacagaa ggaacatttg ctttattggt 240
tacttactag tttagcctct aggttatggc acagcatgct aaaaaatcat gtgtttaaaa 300
gtaaatgttg gtaaaatgct ggcatctggt cctattgtgt tgatgcattt tcacttctgt 360
ggtcatagga aatggactgg tctaaagaga gtgaggcaca acacaagcag ggcattagtt 420
tgaataggaa gtcaatcata tttggtttta tggcctggtg tattttgggt ttaagataaa 480
atagggaaaa atgtcagaaa tgatccctat gcatttattt catggatccc ttaatttcat 540
gggcatgcct aataatgatc tatgttctaa ctggagctta nggcttattt tagatattgg 600
gagtgtagct tttatttacn agatggattt tatctttcaa catttgcatt ttgatcaact 660
tttgtaatat tcaccgtgta tttaaaaata ttggtgcact taaaatgttt tnccccctnng 720
nttnctttt atattgggtc caaaggcant ttantcaagc anctntttgg naatggaaac 780
tcaatgttaa anttggcntt gggttcaann ggaaat 816

<210> 4180
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4180
tnnnctttct aatgcttggc tactngtctt tccgcaggat ccctcgattc gaatccgnca 60
cgagggnggc tgccgtntnt ggctttngct nnaagggcna ngttcgggaa ccgttccaca 120
ncatcctgat gtcctgaagg gactcactgn gcccattgcc agcagtcgnc attccctaag 180
gtgctgtgat ccanaangcg ggntgngaga nattggggcc ctaccctact nactntnncc 240
cacaccatgt ntaaaatact cannntntnn angggcnnaa nacngctatc tggaccccna 300
tcaggnctgg gnaacactgt tnaaaagtcc cctttcatgt tggccccatg aanagaccac 360
ngaccacgng gtacntggag ctcgatntcg anagttctca agngggaact gaggggactt 420
ccactnctnt gggactnngg tcnactnncg tgnanancgg gacnactaca tnntggnctc 480
tttctganca ccaccctntt ttcacgatgg nacntgtaga agggaaatgc tgganngatc 540
catccntcnt gntctcttct tcngccctaa atgnctgcan ncanntccgn ncngtncntn 600
acctgnnngg tccttttggc cccngcnttg ncatgantac cngnntacct gcatcctanc 660
ctgacacnnt ttgnctctat cgctgcagtg anggaaangt gggtgggtat ttttccccaa 720
taaagacttt agacccctnt tttnct 746

<210> 4181
<211> 865

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(865)
<223> n = A,T,C or G

<400> 4181
cgtnnccctt ttcaaatgcc cttggctact cgcctttacg caggatccca tngatncgaa 60
ttcggcacga gccaacctgc tgtccctcaa gccccgcttt taccagcctg tggagttcag 120
gaggcgagac atnctggcct cctttgagaa ctgatgggat ctacccccctg tccacgcngg 180
acagtntctc agaactgggt catagaccac ctgtgttacc aacagccaga tacctaatcc 240
ctgagcctnc tttgggaang tctggggccg agggtctggg aatntgcttt nttttttgg 300
gacagagtct cattctgtca ctgcactcca gcctgggtaa cagatcgaga ctcccatctc 360
aaganaaaaa anaaggganca gggcatggtg ntagtgtgac tggggtncca gctacttcan 420
aagctgaggt gggaggatcc cttgagccct gtaagcggag gctacagtga cctntgatgc 480
cantgaactt ncgnctatgc aacagaacct gtcttaaaaa aaaaagtaat taanaatttt 540
aaaattcaaa agtgggacta ttnatnggtt aacagaactg nntttaanaa tgccntaaaa 600
atggtggcnc catttttttt aanaaccntt gctggntntt attggtnaaa aattgnantg 660
gntcttnccn tggccnnngt cnntnaaaaa ttntttngna ngggcnagnt tttatngtna 720
attgnctcgn aaatntgnnn aanatttcat tcccananna angntnnnnt tcccttaaaa 780
nntngnactn aattgccntt actgttnccc ntnaanttta aacnacnnat ttnttntaaa 840
acctttttnaa angnaacccn nnccc 865

<210> 4182
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(989)
<223> n = A,T,C or G

<400> 4182
tncccttgtt gaaancccctt tgctcctttn tnctnccgtt tgncatncna ttcgctcagc 60
tgaggcaatt aaactggaaa agaaatagat tgaaaagata ctntngaaga agcagtacag 120
aagttggggg actgaaggag agggagccac tgcaggtgct agctgcttaa ggggatacca 180
gtccttttac agatataata gatacagctt ctgaggtgga gggtgatagg agtgtgtatg 240
agaaanttgc agnttnacaa ctgctcntgc ctcctnggca anaggannan cntttcnccn 300
nttncnnccc ttatngnaca cacattgncc tgattggncn tnccncngct agcttncagt 360
cttnantnta ctcannagnn nntnggggaa cncnctntcn nantatgntc ccttttcctc 420
tnncntnncc nnatancacc ccnctcnctt tcctttctaa acttncacan ntccctgana 480
atgncttccg aatggantct tngaatttct ncgcccctnc ntcntcataa tcnttttgct 540
nctccngctc nccctcattt tnctacgtnc cnccttctnn ttnactgnct ttaaatntta 600
ttancnncnt ntncnttncn atctncaant tttcnnnccn acnnnnnttt nctnntnnca 660
aatcgcgnna aataagtntt gcncactcnn ntnctancnt attntccctc gcnnttntcn 720
tcatctcccg cnncactcac ntnnncnnnt caattnntnn nnacncncnc tgctctacnn 780
ncnatntctn tncctncaca ccctntancn tntcnctcan aatgcctttt ctnccttann 840
nctntcnttc ncnnatctan ccaantttnc tttnacatcc cctncnnntc tnncccgacn 900
atatntnacc tcttnnatcn cagngcntan natcnccccn ttntcnctnt cnctctcann 960
cttntnttna tcttcatnna tcanncncc 989

<210> 4183
<211> 820

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 4183
tnnccttttct aatggcttgg ctacnggctt ctnaagnatc cctngtttcg cagctatagc 60
actaggcagc cttgcatcct gggtgttgaa agtgcaggcc attatcctcc cctctgacct 120
ccaagatgtt aggtggcctt tctgtgcctc agttttatca tctgtaaatt gggtatgatt 180
gtactagtgc ctagtacata aggagtgctg caaagattac atgagtgtct ttaaagtcct 240
tacaacagta tctcacacat agtaagcatg gcatgtggta gttactatca tttagtccct 300
cttggagcaa tggatattaa aattttaaag acagttgtct gntnaggatt ggncatgcag 360
cctgaagttt naaaacaaat tgcacctgnc tgtgtncatg ggganacttt ttaangccct 420
ggacctnatt agctnaatgg gctgtggaan tgnatggggc cttttgnagg gcnccnnttt 480
tnnaaacccc naaattttan aaagnttaac cccagannct tnattctnca ttttaactgg 540
cctnttggna gatatatngg cagaagtttt tanaagggtn naaaagtttt ttttgcnccn 600
anaaaaangg ggcttaaact tttttaattc nngggtgngg cgccnnaatt tttcaataaa 660
aannttttcan gaattattaa nnggggtngg atnaannган tttnttnttn anaaaggatt 720
tttaaanaat ttgggggggaa gaacccnaat tattaacngc taanttattt natggcttcc 780
gactttnnaa ngtttttnga aanannccna nntttattnn 820

<210> 4184
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 4184
tncccttttnc taatgcttgg nataccttgg tttccaatgn ttnccagggt tncgtgcact 60
ccagcctaca tgacagagtg agaccctgtc tcaaaataat aatantaatg nactgagact 120
cagaaaagat gttngntcaa ggttacaaan ctcanacngg acagggcagc attggnaacc 180
aaaatnggtc tgactcctan gctcatgctg naaatnacng tgcaaggctt ntactatcta 240
tnttttтcct aanngaatgt ctaaatgnac ngatggttaa catattacgc agaatatgtt 300
aaacgtcaaa tgaactgtnt naacnataaa tgctggagag ttgaagtggc caagaactca 360
tgcccnaggt gatctgggaa ngcctcttga acaaggtgga attatagctg gtttttgaag 420
aatccgaaag gtgcttagat tgaaaggtga gacatgtaca ggaatggttt ctaagatgtc 480
atattttatc tctgtcctca tcttgactgg cactaatgaa catcaaagat ttnaacctaa 540
atncattgag tgcccagnat gtgaagggcc ttatttatgt aggttttaaa gctttttaac 600
atactttaaa agaannggac tggttaatct ncactgnctt agatcccttt angaccccgg 660
gagcccggat tggcccccag ggngcccttt tgggaaatgg gcgttggtcn gggaccaagt 720
cttncacntt ttgggaccnt accccanaga aaaaggaaat gggtcccttt gggggaattt 780
ttgccaggac cttacaattc ttgggaanaa 810

<210> 4185
<211> 820
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 4185
gnnnnctttt gaaanccctt ttaanccctt gctcttgntc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggca gaggcagggc tagaatgttg gacttcagat ctcttacttc 120
tgtgtgctag tgcaccattc ttagtccagc acagacaatt ctcaaacaga ttagcaaacc 180
accctcttga aattgcaaga attgttacca tgtgatcaag gcatcataat taatgcaaac 240
cctagtttct agttgggaaa gagattaaga tggagacttt gtagtaaaag atggacatat 300
attttattca catagcttat ttattttgaa tgaaagacca agcaaactct anccttggcc 360
tgtcctgang aaggtgatct ntgaaataaa tgcnctgnan aatttggnga cannngngnct 420
nncctntgat ntatctgntn ttatccaang gttcnaatnn tgtncctntt natnccntat 480
tcccctnnaat ttttnttgna acnnncccnn natttcntna tngncccttt tcttncntna 540
cncctttntac cntttatttn tnnaannccc nttttcnnnn ncaatnctng ntcntnaant 600
cntnnncttn tnnttnnctt ttanncccct tnnccnttnc cccctnnnnn ttaanacntc 660
ctncttattt anntcntncc tnttttcttc tccnntttct ttaactnntn nnnctttcac 720
ttctttacct tatatacntt aanntctctn tngtattnta aactcnttnt atcttnccct 780
ntctnctaaa tncatcctca natnnttagn nnctcaacct 820

<210> 4186
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 4186
nnnnntttnc ncccntttgc aaacccttgc ttctnctttc naattggctt ggatcgattc 60
ggggaattct ctgccttttg gggaacagtt acagaggacc tnntaaaccc ttgtttngtg 120
ccaggccccg agaccacaga gataacctgg gacccaggct ctgcccatgg ggagctccca 180
gccctgtgag gaagacaggc catcctcacc cagcacatcc tactgtaccc gaagagaggg 240
cgcagtgact catttttgc cgttggcatt aggtttaaaa gatggttgaa cgtccacaga 300
aggaaaagga attcctggca nagggccctg cctgagcata ggcagggagg ctgagcagcc 360
acgtgtgctt gagcgctggt ttgncgaggc agcaagcggc ggctgtatgg tgttgctgca 420
gctgtatggt gaaagggtgt tgaaagctga nccaggaatc aaggctgctg gccacagacg 480
cattgatgat ggatgacgtg ctggtggggc tgacacctga aaaaaaangg tgtcaagttc 540
caaaacaang gcctggcata caagtanggn ccacaaggga gaagcatgag ggaaatggct 600
tngcccgcct ggggntccct ggganaantn ancaattnnt cngnatgnnn aaggnncnaa 660
tnnnnanaac nnnnnnccnn nncnntnnnn annnnnnnnn cnaaannncn nnnnanncnn 720
annntnnnnt naanattnnn nntntnnnnn nnnnnntnan aannncnnna annnnncnct 780
anctnnnnnn nannnnccnt tnnctnnnnn anaanngnnn ntnnnnnnnn nnnaannnac 840
ccccnc 847

<210> 4187
<211> 884
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(884)
<223> n = A,T,C or G

<400> 4187
cgcttggttt gagcnnctna ancctccca tgcgatncga attcggcacg agggacagtg 60
ggcctggccc gtggagctgc cacgcaggtg cctgagggcn nngtgccacg caggtgtctg 120
aggaccaggt gccacgcagg tggtgggggt acagacaaga tgctgggatg tcccctgccc 180
catggtcaag ggtgtcctgc ctgcctgggt ccagggcctg agggagccac atggatcccg 240
agacttgtgt tctcttgctg aaaacactga ggtgctccca tctgtgcgtg gcccatgagc 300
tgggatggtc ctncagcttg cccacaaggt ccgnccctct gtctcttgca ccaacctgtt 360
tgcataaaca cactttgcta caatcttgct agtgcgtttt cttaaaagat aatctattta 420
ctgtaaaaaa taaattggac tttgcaaaag cttttagaag gaaaagaaag aggattaaag 480
agaattgctg gtgaaaaaaa aaaattccat aaaaaaaaaa aactgggaan ccttttagaa 540
cttntagttg aggtccgtan ttaccttaag ntnccaagac cntggaatta nggaattcca 600
atttggattg aagtttttgg gaccaaaaac cnacaancnt tnggaaattg ccaatttgaa 660
aaanaaaaaa tggcctttta aattttggng gnaaaaattt tttgntggaa atgcctttat 720
ttgggccttt taaaatttgg ggtaaacccc aatttttta aaagccttgg caaattaaaa 780
nnccaaggtt ttaaacccaa ccaaaccaan ttgggcattt tccatttttt naatgggttt 840
tccangggtt tccaaggggg ggnaagggtt ttttgngaaa ggnt 884

<210> 4188
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 4188
tgtnnctttn cnncctcnnc cgaaatcnct ttgnttctaa ctttcctaat tacctgggct 60
acttgcacta tcccntcgat ncgcatagat ggccnngtta ctaanggtga ntttccagcg 120
cgggggggcac gtggagtcac tggaacattt gngcaatgct ggtgggaatg tcaacccgng 180
cnggcctctg gaatangcct ggcnnntcct gcnagagtta ccntgtgacc cagcaattcc 240
actcctagct ccacccacag gantngaaag cnaagacgca nacagatgcc tgngcnccaa 300
anttcacggc agcatcctnc gccatantgg cancatccgt cgtnacagcg gcatcatcct 360
tcatcattac ggcancatcc gtcgtaacag cggctacatc acttcgccac agnggcagca 420
tctgtngtca cagnggcngc anccttngcc aaagcggcag cntccttcgt catagcggna 480
ncatnctttg ccatancngc naggtggaaa ccctgnccat ccactgaggc ntncatanac 540
tanncatggn cagtccaggg cactggaanc cangccgtng aacggcgccn acggtnanna 600
ggaatganac cntgatgcnc tggggccana catactggct anacanactt ggagacatca 660
tgcttanttg nannnccant cacacttgcn nncggcgtna tcctgctcac gtgatncgac 720
ccgaatgggc acttcaaatg ggaanaaggg ngatggcact nccggtnncc tnganagggg 780
n 781

<210> 4189
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 4189
tnnnncttccn nnctcnacng aaanccccttg tattgccctt tatgcaggat ccctcgattc 60
gagcagctgc atctaggggc ccttggtgag atttacactc antncctggt cgccccccgt 120

tagcccagat tcaaaaggtg aacatctgtt tgcagaatct gattcatgag aaggtgagtt 180
tattgttttc agtttagact tttgggaagt tggactagag aggggagttg ttggggtcag 240
tgctggctta acagaaaaca cagcgaattt cccctccagt tctccccaag tccactgaac 300
aaggctagtt cctgcaccac ccaggattca aaggaaagac gaagggagca gaacttgtgg 360
cagcaacagg taaacttcaa gaaggagggc aggagcccca ccctacaggg cttggganga 420
gcccagaggc cccatctgtt tcttcttcca ggagttgtca aggcagcaga aaggagtcac 480
ccagccaaag gaggaagatg gcttcaccgg gctgcaccaa ggggccaaga agcccttacc 540
ccgtgtctaa acccttctct cacttcccct taagccttgg tgaaaagaag tcaagaaagc 600
cccaaggctt cctttttttct tggtttcttn aacttcaacc agcttaaaaa aatgggcttt 660
ccagggtant tggaagttca attgaaantt tcaanaccat tggtttgggn ggttaaaagg 720
ttttcttcct tnttggttnc ctggaaaaaa cctttcaatn ctttcntttg ggnggtcttc 780
antggtccnt caaattcttt ccccccttnta ttgaacattg ccaaaaaaac cnancctttt 840
ttttttgnaa a 851

<210> 4190
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4190
tnnnttctaa tantttggat cttgtgtctt tntgcaggat cccatcgatt cgaattcggc 60
acgagcccat gtcccgcccg ctcgtctgcc tggctgcggg gtgacacggg gcttcgcctt 120
gggaaggggt cgagggaagc agttagacgg ctgccgggcg gcggctgccg cgcggcacac 180
aatatttatt taattgccca actaccactg atgaagatat attggagtga ctgctgaaat 240
tgccttttg tttttaacca gaggacagtc catttgtttc acttcttttt gctttcttta 300
ctgctatgag ctttactgaa cggctgaaaa acttggaaaa taaaatggac atgctgtagt 360
cttgaacata attttttaa ggaaaactta aagtgccaga gtgaaagcca gaatggcatc 420
cagagagagg ctctttgaac tttggatgct ttattgtaca aagaaagatc cagattacct 480
gaagctgtgg ttggacactt ttgtttctag ctatgaacaa tttttagacg ttgactttga 540
aaagctgcct accagggtag atgatatgcc tccaggaata tctctgcttc ctgataatat 600
tctgcaggtt ctgaggatcc acttctacag tgtgttcaga aaatggcaga tgggttagan 660
gaacaacaca agccttgtca attttgcttg caagttcttc attattcttt gcaggtatct 720
agtagaaaaa ataaccttgt t 741

<210> 4191
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 4191
ttggnnctng ttctttttgc aggatcccat cgattcgnac cgncnggcca gctgncaggn 60
nacaggggct gtaggcccag ctcanaccac ttnggagctn tggctntntt caaaaacatt 120
gtngactctc ttacccacac attcctnngc tggaagggga gattgacaaa ccagcatcat 180
ctctangtta ctacaaaagc cctcnctggn aattattctt aactnancag ctggtagcga 240
tccattcnga aaaagagtac nntagactga gttnctctgc tgntnaaann nctgaanagc 300
ctnctaantn tacctancgn aaaacctana nnccttttnca tggcctgcta ngccctgcgc 360

cctntggccc atcntntacg accacctnta ctactgccnt tctgtnaggc ctntgggccc 420
aaacctgtnc ctatnaatcc agatggcctg aattanctga acaatgacan angatgnnaa 480
aatggcctga tnctgcctta gctgatgaca ttaccttgna aaancncttc tcctggctca 540
tccnggctca aaagctnncc anctgagcac tgggacctaa acccctgtcn nccagaggaa 600
nnacccncta tgactgtaat tatccatacc taacccgatc ctataanatg gcccgcccnt 660
tctccnntcg ctgancttt cggacnnanc ccgctgaccc aagtgaaata aacagcnngt 720
tgntcacact 730

<210> 4192
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 4192
ttggnnctng ttctttttgc aggatcccat cgattcgnac cgncnggcca gctgncaggn 60
nacaggggct gtaggcccag ctcanaccac ttnggagctn tggctntntt caaaaacatt 120
gtngactctc ttacccacac attcctnngc tggaagggga gattgacaaa ccagcatcat 180
ctctangtta ctacaaaagc cctcnctggn aattattctt aactnancag ctggtagcga 240
tccattcnga aaaagagtac nntagactga gttnctctgc tgntnaaann nctgaanagc 300
ctnctaantn tacctancgn aaaacctana nnccttttnca tggcctgcta ngccctgcgc 360
cctntggccc atcntntacg accacctnta ctactgccnt tctgtnaggc ctntgggccc 420
aaacctgtnc ctatnaatcc agatggcctg aattanctga acaatgacan angatgnnaa 480
aatggcctga tnctgcctta gctgatgaca ttaccttgna aaancncttc tcctggctca 540
tccnggctca aaagctnncc anctgagcac tgggacctaa acccctgtcn nccagaggaa 600
nnacccncta tgactgtaat tatccatacc taacccgatc ctataanatg gcccgcccnt 660
tctccnntcg ctgancttt cggacnnanc ccgctgaccc aagtgaaata aacagcnngt 720
tgntcacact 730

<210> 4193
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4193
gtnncnnttt ctaatgcctt ggnnntnncc ttctaatgct tggctcttgt tctttntgca 60
ggnatcccat cgattcgaat tcggcacgag cctagttatg ctataatcaa gcaggaaatg 120
tttatggaat ggaaagatta aggaaaaggt atgttcttat tttagcaata aaacgaatac 180
cagaagcttt aacattcacc agtacaaata aatagtttca atggaatagg tcgaaagtaa 240
agggacatca ctagagtaaa tgctagacct tccctctcct tttatttta gcaacagcaa 300
agcagaaact aagatctaca agtgatcaaa gagggtgatc cattcagttt ctgtgtagac 360
aggaataata ataatacctt ttacatattg gtacagtttg taaaaacact ttcacttact 420
catttaatct tcatagcaac ttgatgaggt agaatactat aggaagcagt attagctcag 480
gttggtacgt aaattactgt gtttaaattt caataaaaca gctatggaat ccaagacatt 540
cttggcgcct aataaactgt attctttgcc aacagtgaaa gtgcttctct gttgcttggt 600
aagtttttc cccttagaat actaataaag taattgatta actttcattt ttattttgat 660
ttgattggga cagcaatttt agcagtaaaa aatgtcacct ttataaatcc tgtggtttct 720

ggtcttggnc aagttaaatt caacctgacc aggaaggcac gctttaattc ttat 774

<210> 4194
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 4194
gnaacntttn gnaaancctt ngttctaann gctgggntcn nttggtntct gcacgatccc 60
ntcgntncga attcggcacg aggtcagatg ttcctggntt acgttgagct ncantgaagt 120
gagaggggca naggggggctt gggaagtcac aaggtcangg agaggagaag aagcgtgctg 180
gatgagtcac actgnaggac tcaagccagt aggttcttgg tagcccgnnt actgacctgg 240
agccangcac tgatagcaac gtgtnctctg agggaaggcn aatggnaaat ccaagcangc 300
actgggatct gcctgtgaca ctcttgtggg gcctggaccc tcnnnctaag ngagcttggg 360
ccantcagag ccaccccagg ngcccctncc ttnatctcca ttgtggcang cacaggaaca 420
ttgtgatacc canaaaatgg actcctgtct tgtgcacagg atgcacctgn gtttnctatc 480
ttncattcct gaganctntn nagccaggag gacctgantt gaatcctgac tttgccnata 540
tnaatgacta tgtggctgtn ggtaacttac ttatnctaca tgagactact tgtttcatct 600
gccggaaaan gtaccatann atctgccttg ccnttattga cttnaggata aatcaagtcn 660
gntantaaag ggaaannntnt gttncacttg aaaaatcaat taatggttca ttgttcctcc 720
ntttaaaann gaaatacaaa ngcttcngcc tttagaacnn tnntggagnn c 771

<210> 4195
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 4195
ttccttcaat ngntgggaac tngttctttc cgcaggatcc catngattcg aattcggcac 60
gaggatgcat gaattactgc attaaaattg atttatggga attattgttg tttcagtagc 120
atttcaattc agttgccaaa tagagcagtg ggcaatgtta acggaaacaa ctgcaattgg 180
cgcagtatgg agtgcctatc gcactaggaa atctgagggt cacaaaagaa aggagatgtg 240
aggataagaa actttgtttt tcccttgttg ggaactcttt aggcctcggt ttctggtgac 300
agccccaggg atcatcaggc ccggaggaaa tgtgactatt ggggtggagc ttctggaaca 360
ctgcccttca caggtgactg tgaaggcgga gctgctcaag acagcatcaa acctcactgt 420
ctctgtcctg gaagcagaag gagtctttga aaaaggtaag ataaacagca taaagtctta 480
cccttctgca gtaataactg gaatatgtta ataaggtcat gtgttangta gtatagcaga 540
gaaaccccaa atttgcagta tcttacctaa tatactttta attctcactc atgtaaagtc 600
ctagatggtg tcctggatgc tcttccaagt gccagattca gagacccagt ttccttccat 660
tttgnggctc cattatcatc acttggctnc caagactgca ggggaagatc atggatttct 720
tcatgggana angggaagag gatn 744

<210> 4196
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 4196
tntnnttcct aatngntggg ctacttgttc tttctgcagg tatcccatgc gattcggttg 60
ccaaggattc tattgccatg tgttgaggag taggagcaag gagatagagc aggaccaatg 120
ttacaataag aacccactat taacccccaa gaatctgtct tgtgagggag ataaatagtt 180
atcatacatg cgataagtcc cacaccagca catgaaaaga ttagaagaac aagagaaggg 240
aagaaaccta ctgacctgtt tcagggtggg atgcttcata aagaggataa cagttaagcc 300
actaacagta atgcctctaa tcttgaatct gttacctact agttttgtgt ccctgggcag 360
gtaacttcat gtttccttgc atcagcttac ctttaaaatg agaataatga taattatcta 420
acagggtcct tactgaggat tctgtgagat aatgcatgga aagagcttaa gtccatgccc 480
aggaaatact aagtgctcaa agtaaagcat tttttttcc ttttttatta cctagtccca 540
caagagcaat ttttttatat caagattagc tttaaattca gaaggaaagg gaatacttga 600
atggctcatt gccagtaacc ttatattgat gccatgtttt gactttgaga catttttgg 660
agtctttttn aatggnaata caggtttctg gtggaaacca cccttgttgt caaaaagttt 720
cnntgacctt gtgtgtgtgt ggngggtggt acacatgtgt cct 763

<210> 4197
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4197
ntntttnnnn nnctnnttgg aaacccttna aggaaanacn tggcccttcg caactncagg 60
ancccatcga ttcgaattcg gcacgaggag gcaggcaggg cntttgggtc ccttgttcag 120
ctgttatggg gcttaggcca tgctcagtgc tggggacagg agttttgccc aacgcagtgt 180
cataaactgg gttcatgggc ttacccattg ggtgtgcgct cactgcttgg gaagtgcagg 240
gggtcctggg cacattgcca gctgggtgct gagcatngan tcactgatct cttgtgatgg 300
ggccaatgag tcaattgaat tcatgggcca aacaggtccc atcctcttca tgacagctgn 360
gagctcctta ctgtgggaga gctgcaggga gccaaggagg gctgcctgac acacttgccg 420
ctctcgtgtg aatccaagaa actgcnttnc tcaaaggggc cctggtngtc accttctncc 480
acagccattt ccacccatcg nntgtctaga atctctttca ttagcacatt ccaacccctc 540
tgacactngg tttaaaaatg agctccctgg ctcantgggg ccttntagaa tctggaacca 600
gacggaggtg gaagttaaga agataggaca gaacaagcag gcccaaagng ctatgggttc 660
actggggana gaccattaat tctncagatg cttttactcc tgatggcttt tacccattat 720
tcttttcngt tttaagagac atgggctnac tcttgnaacc aagctgggaa tgct 774

<210> 4198
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(774)
<223> n = A,T,C or G

<400> 4198

ntntttnnnn nnctnnttgg aaacccttna aggaaanacn tggcccttcg caactncagg 60
ancccatcga ttcgaattcg gcacgaggag gcaggcaggg cntttgggtc ccttgttcag 120
ctgttatggg gcttaggcca tgctcagtgc tggggacagg agttttgccc aacgcagtgt 180
cataaactgg gttcatgggc ttacccattg ggtgtgcgct cactgcttgg gaagtgcagg 240
gggtcctggg cacattgcca gctgggtgct gagcatngan tcactgatct cttgtgatgg 300
ggccaatgag tcaattgaat tcatgggcca aacaggtccc atcctcttca tgacagctgn 360
gagctcctta ctgtgggaga gctgcaggga gccaaggagg gctgcctgac acacttgccg 420
ctctcgtgtg aatccaagaa actgcnttnc tcaaaggggc cctggtngtc accttctncc 480
acagccattt ccacccatcg nntgtctaga atctctttca ttagcacatt ccaacccctc 540
tgacactngg tttaaaaatg agctccctgg ctcantgggg ccttntagaa tctggaacca 600
gacggaggtg gaagttaaga agataggaca gaacaagcag gcccaaagng ctatgggttc 660
actggggana gaccattaat tctncagatg cttttactcc tgatggcttt tacccattat 720
tctttttcngt tttaagagac atgggctnac tcttgnaacc aagctgggaa tgct 774

<210> 4199
<211> 1068
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1068)
<223> n = A,T,C or G

<400> 4199
tccctttnaa ctccttgaat cccttgaatt ncttatccca tcgattcgct gatctccaga 60
cccataaggg agatgctgag tagacaactg gggctttttt ggtctggagt tcagaggaga 120
gatcgggaag gtgtccattt ggagtcatcc acgcagagat gtgtgaaggc tgctcaatga 180
ttttgaggtt taaagaaaaa aagagatgtg aaaccagggg ccctgatgag gctgcccagg 240
tggtaaggaa gacagaagag aagccatggg acagctgagc ccgggcaccc tcaagccttg 300
gaggcatgaa gnttggtggg gatctgncnn naaacacctg nnanctgtca gngggccanc 360
anaccctnta gtntcacnga nnnnntncnn nangcaaaat ggnctnttna anatctcngn 420
ttatntaccc ntngnagtca ngnnngacta cntnanaaca tnctnatatg naaanntatt 480
tcgcngcact cngnctttaa ccanntctgt nctttncnct gggtacatgn tcgnnatntt 540
tnctnggaaa anattaattg gctnttttnt nnanctnngn ngaactgtaa anttnnaccc 600
ttcnacannn aannttttnct ctcnggggct ncttncaatn nacntaatan ggncacagnn 660
nannctnanc anatnannaa acccttannt atannacncn nnnannaaan anttannngn 720
nntntacncc cananctntc tnctnaaaaa tnggnnncct tcnttcnnna aaancntcat 780
nnntnantnt atanannggc ncatttnact ctnnccctat aanantcnnt ngnnntcccc 840
annaaatctg gggnaacaan ctttgnnntc aaannannnc tctnctnnnc nctcacanac 900
gncanttnnt ncaanngnnc acttacnnna antntntcta ntatatctnn cnngnntcnn 960
nnatntnngn cntnntctna ancnttttta tttnnanana nnaacnttan ancccctatn 1020
ncttnntcta naagcancnc naacaanttn tccnngncnt cctnnncc 1068

<210> 4200
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4200
tnnnnttnnn nnnctcttca aatccttgtt ctgcctttct gcaggatccc tcgattcgaa 60

ttcggcacga ggctgtcggg cctcagcaga gctgcctacn cacctgagct ccgattcatg 120
tactacgtcg atggcagggg ccctgatggt ggctttcgtc aagtcaaaga agctgtcatg 180
cgttatctgc agacactcag ttgacacttg ttatatcatg ggaccccgga aattggagtg 240
aagctagaaa cagaaaaccc atgcagggcc tcggattccc acaaatgtga caagaggtat 300
agggagtgag tcgcagcgct ttgctcgtga ccctgggatc agagcaccca tcaggcttcc 360
attactgtgg gctccctaag aagaccatgg agagcttggg gactccccca ggaaggccgt 420
gaagctgggg attcccccta ggaaagccat gaggaactgg ggactcccca agaaggccat 480
gaggaagcca gaaattggag gtggtaggaa gtggtactga tcaatgatgg ccagcaggac 540
tcatctcctg cctaactgga caggaagcct gcacccactt ctgtcttncc ctggaactgg 600
gcactggcgt acactggtat ccctcctaaa gaagtgactc acctgactga tcagcaagaa 660
gcctanatgc aggcctacca tggatggctt cctagttgcc tggggaaacc ctggaatggc 720
atcaggagaa agcaccagga atccagtcct tcnct 755

<210> 4201
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 4201
naataccagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagaagg 60
ccttaggctt tttttttgta gggtgagagt gggggagaga tctcttgctc tgttgcccag 120
gctggtctcc agctcctggc ctccggcagt cctcccacct cagcctccca gagtactagg 180
attatgggca tgagccacca cacctagcca ggctttttat attgagttgg ttatatatgc 240
ttcatagcca cactttataa tattggagta tagtattaaa ttacagcttg ttgtcaagtc 300
agtgtttctg taagacagta tatccaatat tggttagagt aacacctatt tggtgataca 360
gatcaacagg gtgtctctga ttaatttagc tcctacatag ccagaagcaa gttcattatg 420
atttagaata ttgtacatgg ttatgcagga atcatcccaa cctatctgtg tttataggtc 480
agatgatgtt cagtttatat ctgctgatag tgtatatgca ggaaaaccta taaaaccact 540
tcagacttgt taaaacagtg agaaagccgt gattgaaata ttaatacaac ccgtgtggta 600
taaatttcat ttacantggg aatgtaaatg ctgtcatttg aatcttgnca aagcctgcta 660
ctaaaactct taaaancctt gctaggggaa taagtcttta ntnccaaaaa caatatanan 720
ggggatgtgn gtggataata caaggacaac catatgttgg tggcnt 766

<210> 4202
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4202
ggnnnnnncn gggaacattn cncnanatgn actcnttgca aacgccccnn aatgcaggat 60
cccatcgatt cgctgaaacg gaaacctttc gcaaagcctg tgcaggcaga ggattttaca 120
cacatccttg acgtggcact gtgtcttcag gggtgctgcc ctcttacaga gagacagatc 180
tggaggccat ggccgttttg gtgagaaatg ccagaaacag cttcagtttc cacctactgc 240
ttcatattta taatcacagt aatctatttc tcgnttngct atttctagag caacaaattg 300
tgtgatgcga aattagtacc agaggaacaa tgactccact taacaaaaaa atagcaaggg 360
aactatgaaa aatggcacaa ctgcttaact ttaatagttg aagtctttag gagacttcag 420

tagttgaaat gacacagaaa aatcctcaaa ctaacatacc tacatgaaac tgagtttctc 480
aaagtaaccc acatttatgg aaatagaagt ttgnnttgca gaaacatcag cncatttttgt 540
aaggngtatg tgatatttaa anttgtgatg cttgngaata agggaatggg gctntaggtc 600
tgaggaaagg ggagcattca ttcaaactgg gagggggttt tgcattttta aggctgctat 660
aagggcacga acttggngga gacttggacc ngntttccgn atgnatnggg gaccntctgg 720
tctaagccat tgggggngnc nggacttttct ccaanattct ntccaaacnt gnctctctta 780
atttctccga a 791

<210> 4203
<211> 844
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(844)
<223> n = A,T,C or G

<400> 4203
ggnnnnntgn nnntttcnaa tnctngctac tcgttctttt tgcaggatcc catcgattcg 60
aattcggcac gagattacaa caatatggat agtagggagg aggaaaacaa gaggagaatg 120
ggatcaacag aaggcatata tggggagtgt ctggatggct ggaaaattcc atttttgac 180
caagatgtgg taaacacggg gagtaaagtt ataatttttt ctcttactgt gcttttaggt 240
tttgttgctt tctgtctgta tgctgtgttc cacaataata aaaatattta aaaggcaaaa 300
aaaagtaaaa taatgaatat aaaattacac tgaaactaca tattctcata gatagaattg 360
taattattag agtttttgct gaataaagtc aaatagacta ttatagtagt tataaacgca 420
agttaaaatt ttagggccgg gcaaagtggc tcacgcctgt aatcccagca ctttgggtgg 480
ctgaggcggg tggatcacct gaggtcaang tgttcangac cagcctggcc aacatggtga 540
aagcncntat ctactagaaa atntaaaaaa tttncctggt ttttggnggn ggggctcctt 600
taatcccaaa ttactnnggg gagggttttg ggcaangaaa aaatttnttt caaactttgg 660
gnagccccca ggtttttntan ngggcccttn naaatttttn ccaattnccc ctttcaagcn 720
tnnggggggaa caaataatta aaaacnccnc tttttcaaan ttngaaaaaa aaaaaaaaaa 780
naaaaatttg gnnccttttt aaattttngg gggggggggaa ttttnnngaa aaccccccaa 840
tnnt 844

<210> 4204
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 4204
aaaacnacag gctactngtt ctttttgcag ggatcccatc gattcgaatt cggcacgagg 60
aaagttgaaa tcctagttcc tggagtcctc tgtgatggca aattctgcct tccttgtttc 120
ttctttttttt ctcctctgtt ttcccatttt agtagttcaa atggtttttg tattattgaa 180
gacaggtatg tctcaaatcc atggaactca caaaaaaggc tcattttcta tcctcaagga 240
gctttacatc taatggaaaa cacacagtga agtccagaag gactcactgt ggactggtag 300
caccatgagg gctttccatg aagaaggact taagccagac ttagcagggt gggcaggtgt 360
tgaaaggagc tcatagattg ttccaagtta ggagagcatc ataaaaagag atggaaattt 420
acttgctaca gttttagatt tgctctgctc atagcagaga gtccatttca gagcatatag 480
ggattgtcag gacttaaaac ctgctgtatt tcttacttaa gcacccctct ccccagaatg 540
ataagagccc anctttgggc cttggaatgg gagtagaatg tgggtatact gtctatcata 600

tganaaaatt gcntngaacc aacccccccn cncccncaaa tgcctgcatg tnaaactggn 660
gaacactggg taatatanat ggattattat caatgtcaac ttcctggact ggngaatttg 720
gcctataggt ttnccaaaat gtccccctga aanaaaaggt ttttgggggc tttnttt 777

<210> 4205
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 4205
nnnnnnttnt ttaagaccag ctcttgttct ttntgcagga tcccatcgat tcgaattcgg 60
cacgagagaa gctccactgg cacttttgta ttcacaacta ccgggtgcga taaggcagtg 120
agggttatta tgataccct tttcacaggt aaggaaacaa ggctcanana ggttcaacaa 180
cagagtcata attcttcttg ttggagaatt cattttgnta catttcattc ccaccatctg 240
cagtaaggga gacccattaa aatatactat cctgattttt aaagagaagg taacattaag 300
gccnnnaggt tngggatntn nccaanttca ctntgggctt ctggactccc atgcccaaca 360
gcctgcatga tgcanaagtg tccctcaaga gcctagtgna tgattctttt ttngtgccan 420
ganacagact gtggacctgg agagggttng ggggctggag aantagagga ggtgganttt 480
ctacaacagg ggntattgng ggggtantaa gaccaatgac tacataaggg cctncgtttg 540
gtcttngncc agaaaaatgc gtctttagcc ttttaacgan tgcngtttnc ctccattana 600
taaccagntt taagccacng gtgttgngnt gggcaccatt ccannngctt tngggcncat 660
ggtnttntaa accnaagtcc ccctcnatca anngcttnnt taannanggg ngcctttgan 720
nttnttttttc tttcctccag nnngaangga acntgttngg gctnnntntg ccttttggn 780
nnaaaaaatt tttttttncc gggttccnna aaaancttng ntnnnttn 828

<210> 4206
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 4206
tncaatncng gctctngttc tttttgcagg atcccatcga ttcgaattcg gcacgagcgg 60
acctctagtg cctgatgttc actttcttca ggtcctcaat ttcctacatt taagctgttc 120
ggttaaactt ttccatattc agcttgagat caacctcctt tacataactg attatttttg 180
ccttgaggag aaaagatgac gctaaacaca gcacacatgt gtttattata tgttggtaat 240
gtggaattca aagatgaaag agacgtgagc tgcatcacta aaaaagaaac atattacata 300
aatgcaatgc tgatatcata gataataaaa ttaacactaa ttttttgata ttatcaatta 360
tgcagtccat aatcagattt gttttgtgct tagaaatgac tttttacagt tggtttgttc 420
aaatccagat cagataagtt tcacacatta aatctgttta aaaaccaatt tttaaaacag 480
acgactgtta aagggccaca tggggaagct ttatggaatc ttccaacaat tttgttgtcc 540
cagctacttg ggaggctgag gcaggaggat cccttgagcc caggagttca agactgggca 600
acacaaagaa accccatctt ttggctgggt gcggtggctc acacctgtaa tcccagcact 660
ttgggagccc gaagcaggcg gatcatgagg tcaggagtca agaccagctt ggccaacgtg 720
gtgaaacccc gtnttcacta aaaattcaaa aattagctgg ncatggtggc gtgcgtctgt 780
aattcccagc ttcttggaaa ggttgaggcn naanaatctc ttgaaatcca gnat 834

<210> 4207
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4207
ctaatnctng gctactngtt ctttttgcag gatccctcga ttcgaattcg gcacgaggac 60
acccagttta agggacattc tgtacggtgc ctgaatggcg ctcctgaaaa ctgtgcaggt 120
cctcaaggct gaggaaagcg taaactgtcc cagaccaggg aggccaagga ggcgcgatga 180
ctcaatgtca tgtggtgccc tggatgggat ccagggacgg gaaaaggaca cttgggaaaa 240
actggtgaag ttcacgcaaa gtgtccgggt tagttcagca tcagagacca atgatggttt 300
cttggttgtg acnaaaatgt tccatggtct gaaaggtgtc aacaccaagg gaagctgggt 360
nagagggcta ccagaatcct ctctactgtc ttttcagctt ttcggtaaat ccaaaagtac 420
tttcaaatga aaagtttaat ttaaaaatga gaagccacct cccccacgag atcatgaagc 480
tccatgaagg ccaaggccat gttaatgcca aatgcatgtt ggttgaattc actcgtgttt 540
ggttgaattt actgatgttg gttgaattta ctgatgttgg ttcaatttta ctggatgttg 600
ggtgaaatca tttcatgttg gttggaattc acttattact gnggtnctta ccatcttngt 660
tgcagccctc ttcattcttt ttttctnaat ggncaaacaa ataantnggn tgtanttaca 720
tatttattgg gngtntaaat ggnggataat ttaatattnt gtttttaaat gnnggnatna 780
at 782

<210> 4208
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

<400> 4208
atnnnnnntt tctaatacnn ggctactngt tctttntgca ggatcccatc gattcgaatt 60
cggcacgagc aaataagtta aatgtatatg gcattggatt ggaattggag gtatcagtgt 120
gaactcatgg ttttgggttt tttgtttttt gccttttttg ttttgttttt gttttttgag 180
gcagggtgtc actctgttgc ccaggctgga ngaaatactc annaacgana cnctatngtg 240
tatcanaagc tgctacgcnt ntcatggntt tgttannган cnacacagat agtcntnntg 300
tattcancga cttannctan anagagacag natgggaatt aantgttaan gtgctagcca 360
acaagtaaag attcncataa aacaanggtn atatncccag tcatcaaagt gataaatttt 420
ccctgctaac tttagattaa aaagtanttt ttangccann ttgtgngngg ctcacacctt 480
tttntccctn cacttttttng caggcntnan ggttngacna natccccttt nacnnttcan 540
gaantnttcn nnnaccctcc ccttgggcna nncantggnt cgnaaacccc ccatcntttt 600
tccncaaaaa aattcccaaa ntttcgcngc cacccggnnt ngnnntnccg tggtanccnt 660
gattnttttc ncncttccan ccggnnnggn cncnacngcc ananaaaaaa ccttcnttnt 720
ancctngnn gaggccncnn gtttcncnat ngnncccnna aaattggggt cttttagnan 780
ctcnttaccc ctngccnnnc nganttnaan cnattctttn aaataaaaaa accctcctta 840
ancttattat ngagtccgta tttncntanc aacccntacn tc 882

<210> 4209
<211> 881
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 4209
nngnntnntn ntttctaacg ttggctctcg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag agaaagattt tctttattaa tgaccccaac cgtatttctt tagatacagg 120
agttttgaac tcaaatactt aggagaaaac aagttatgac tgcattatcc tgcaactcat 180
taccagtaat atattgcaaa gcgaaacagc ttggaaaaga gggtgggaga aaagggaagt 240
gagggaggga agataaagaa aaggaattaa gttgatcaag tggaattctt ttttttttt 300
taattcttgg gaactatgaa gtctttgcaa gcacagctcg tttctgcaga ttattttcca 360
aacgtgtaca aaatggaacc aaaacggaga atcccttaag aacctgaaga ggcgcaacat 420
taaaagctac gattatccag tagcaagtgt tccagccttc agttgccagc cgcttcctcc 480
tcttattccc aagattagcg ggatgaaaac gtcttccccg tgattgtttt catttctttt 540
ttctcggcat ctgggcgtgc gcggttcagc accttgagga agtcagacgt tttcgcccgc 600
atcgtgtgtg aatataggcc ttagagcact tgatgtggta gtgcaggtag tcccggaacg 660
tgtggatcag gttgatggtg tttgtctcga gcncncnnnn tnnntnntnn nntnnnnntn 720
nnncnnntnn nctcnntnnn ntnnnncnct tncctnnctc tnnctcnnct cnctnctnnn 780
tctnncnncn nntnntttct nnnnnntttn ntnnnctctn nnnnnncncn ntntcnnnnn 840
nnnnnttnnn nncctttttnn nnctnnnnnn ncnctcnncc t 881

<210> 4210
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4210
ggnnnnnnnt nnnttttaag atcagctatt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gatcacatct ctcaagtttt aaaatgggtt tttttgttgt tgttgatggg 120
ggggagaggg tccagcagct tttaaatgtt ttcacatcgt gtgttccaaa aataactggt 180
tagcctaagt cacttccacc ctccaatgtt gtgaatgcag tctctagcat tcgctattta 240
atgtcttctt cctgcactat ttgagaaatc gcgaggtcga cttaataccg cagtcgccac 300
ttcncggacc ggagggcgga gtctgcttag ttctgaggac tgcgtgggtc cgcgcagaga 360
gctcctgcta ggcctgcgcg tcccgttcta aattcttacc ctttagttct tgtcaccacc 420
cccgccgtgg gaacggcctg acagtcactc gtcaaaggaa gtggctgccg gcagctcttg 480
acccggaatc ggatcctagt cccacccccc ncgnccaggc tttcttctgc aacaggcgtg 540
ggtcacgctc tcgctcggtc tttctgccgc catcttggtt ccccgttccc ttgcacaaaa 600
tgcccggnga aaccacagaa acccgtccct gctacagagc angagttgcc gancccagc 660
tgagacaggg tctggacaaa atctgacant gatgaatcnt cccagagctt gaagaacagg 720
atttcaccca gcaccacaca acaagcccag ctggcggcag cagcttgaaa tcnatgaaga 780
ccatc 785

<210> 4211
<211> 839
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(839)
<223> n = A,T,C or G

<400> 4211
tngnctnnnt tgttanatct ngnntttcta atncttggcn atcgnantnt ntgcaggacc 60
catcgattcg aattcggcac gagccgacta cttgtgcagt ttgccctgct gagccctcct 120
cgccccggga ggcagaaggg gaggggtcct cagcaatatg ctgagcacct cctaaacaac 180
atcacctgaa aaangaacct agangaganc cattctcaaa tctgatcctg gactgagctc 240
gagagctggg ttgagagctg ggttgatcaa agttgggatt ttgctattat tgtgacaaag 300
ggtccagcct tgcagtccan atcctgaaag gcctgggaca aggccaggta atttggggag 360
tccntcctgc atttgtgcag gatgttcagc ggcatccctg gccacccact atgatgcccg 420
cagcaaaccc ctcagttggg acatttaaaa atgtctccag acnttaccaa atgggacagc 480
attgnaccca tttganaagc accggttgag agcaaatnca caaatntnta aaatgggaga 540
tttgggccgt ggnggngcaa gcctgtagtc caatntcntn ggaggccaag gctgggagga 600
tcntttnatc cccaggaggt anctttccgg nngggcgaat aactgcacca ntgaactncc 660
atattgaatt gaacagaanc ccangacnct ttnttttttt aaaaaaaaat atntntntaa 720
naaaanaaaa cttngnnncn ttnttaaaaa nttttatngg gangtnggtn ttaccgttga 780
ancccccncn ttgaaaaana aancatttgg tttaagnttt gggccnaaac ccacancnt 839

<210> 4212
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4212
ggnnnnnngg nnnnttcnat nnnagctctn gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gagtttaaaa atacttcttt gtaaaagtta ttgcacaaag aaaagacatg 120
aatgtgtccc tgttatgtac tcacaaggat aatgatgggg ttgttgctca ttaatactgt 180
ttcttgtgca ataacttta caaagaagta tttttaaact gatcattaat tttatgacca 240
cagaaatgag atgcaaaatt tatgctattg tcagtggcac aggctcacag caccactgac 300
attttgtgtg attgtaatag aatggctgcc aactaatgat tctgtagaca tttcatttga 360
gtgtgctttt ctttagatgt gtgattagct gtaatgcttt cacttatgtc tgtaaattat 420
attggatatg tttacctgat gcctattgtt gatttggagt tcagttttgt attacataaa 480
tgcaagttga actttttttt tttaatttat agaagtcttt gcaggtataa ctacaaatac 540
tcagcccctg gggaggaaaa atgctttgca ctactcaaca gtaacccctg cgttcagtta 600
aaactcctta taagacagca gcttttactc tttattgggt cgaaaaaaaa aatanggggg 660
aggaaaangg gatggaccat cctgggacaa tggtaagaat gaagaanacc atcttggaaa 720
aatgaggngt ccttccctta atgcaaggtt aaaaaggggc tnntccttna tatatagcaa 780
tatagaatct ttgg 794

<210> 4213
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4213
nnttaaganc agctcttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagca 60
gagaggcagg gataccagat atggggaaat ctgtaattac atgcaggcat taaatattta 120
aatatatatt ttcttctttt aattgtggta aaacacatat aacataaaat ttatcgtctt 180
aaccattttt aagtgtactg ttttgtagtg ctgagtgtat tacattatta tacaaccaat 240
ttccagcacc ttttcatctt gcaaaactaa aactctttac ctattaaaca actactccct 300
gtttctccct cctcccagtc catgagaagc accattttac tatcttttct gtgagtttga 360
ctctacaaac ctcatgtaag tggaattatg caatatgttg acaaaccaaa ttctgtacaa 420
tatttaaaga ggtttagtct gagccaaata tgagcaacca tggcctagga cacagtctca 480
agaggtcctg agaatatgtg atgtgcctta ggtagtcagg tcacagcttg gttttgtcat 540
tttagggaga cagaagttac agacaaagac atacatcaat acccgtaagg cacatgttgg 600
ttaagcctgt ggaaagatag gacatcttga aaccaggcca tcacatgtca cangtggatt 660
caaagatttc tgattgggtg aaaatctttg gttgggtgna agaagttaag ctttgnctaa 720
aggcttggaa gtcanggaga aacaattgct ttgagttaaa ggtaangggg gtgng 775

<210> 4214
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4214
tnnnntttcn aatactngct atttgaactt tatgcaggat cccatcgatt cgcaaaccgg 60
anatgggttn tttttcgngg gggngggang gaacanattt gcattaacaa ctactgngaa 120
ttntccatnc aangataatc tcncatgtcn aanancccnt ttnttaaatn nngaatgggg 180
ttgggcttat cagaatannt ntttattaga ggctttttn caaannntcac nggttncacc 240
tgnaancccc cataatnntn tttttaancn gctgntctan ggatgagccc canttanttn 300
ntgcaagnng gganana cnn nntgtgtnan tncanatnnt ntgctngaac cngnncactn 360
nttcataact agctngancc catttcccgt gnacttcggn cgntnnannt tnttangccg 420
gccnnaacca atgantaggt gaaaaggacc cncatgtnac ccccaangna tanaccccat 480
atttccatga antannacct tnttctgtng ggatgcccca tcttagaanc tntgggncat 540
gnngagngna agccctgagc atttntntna acatgcctac ttactncncn aanttgcnag 600
ggantgtgnc ngtgccantc catgaatggg gtanggcgca gatccncgca aacagcccan 660
ttgntaccca tgagatatgg aatnttcctn nctatggcaa antaatggcc natttncaaa 720
nttgnggaca aantgaaagg acttgtgttg ctnggcnnna aaanagggng gggggtgggg 780
nattttaan aatcctt 797

<210> 4215
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(846)
<223> n = A,T,C or G

<400> 4215
ggnnnnnnng nnnngttcna atgcttggca atcgntntnt nggggncncn tcgagacgct 60
ggctccttta tcagatatta ctggatcatc acctgtgnag gctntntgtt taatgatnnn 120
nancatttga atggcaacag ntgcgnatgn atcctgccta naancacncn tactcgntan 180
nnannttggt gtgtgcntgc ntctantnnn cnanatcctg tgcacacatc ggaatttnan 240

tagaancagt acagnnnctt angcagnata aaccatcctg nggnnanana tgacacnctg 300
cnngacntat tnnnnncnca nnntnatggt gntgggcncn gnaaaggnct tgaaacangt 360
cgtatgnncn tnacanggca ccgngctaat atgctactgt gtnaacncag gnnatgagct 420
gcagcnttgc ctnncttacn antgctcact gggtgtgaag gacctgcttg tgaggttnnt 480
gttngccttt tnctggactn annntaancc nntacnaang ccngcattgt tcattaccan 540
tngccttntg aantntnana gnagatgnca ttgggacnaa tnggacagtn taaanganna 600
ccgcttngat ggagnggacn ngaatcgttt cttacntcan ggggccactt tattaanatg 660
ggngaacttn ncacntnnng ctcctangcn cttccaaggt naccttnggg nnccnntggg 720
gaatttaaac aantncacaa nggtggtctg aaaatcttcn nnggggactt aattnaaaga 780
aattnattcg gggttttccn gggggttcac ccangangtn ttnaactttc ncannccnna 840
nnttnt 846

<210> 4216
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 4216
gngnnnnnnn tttgnaacnt tgctaatgct ggctactcgt tctttntgca ggcatcccat 60
cgattcgaat ttcggcacga ggttgtacca ataaagtttg caacctacag caatagccag 120
tcaataaagg aaatgatgct gatgtagcat ttatgagcct taaaaaacaa acaaaaaacc 180
ttaagatgtt aaatttattc caaggattct tttttttgt tgtacatgaa tgttcatatc 240
aggtttattt gtaatagcca aaacagtata cacctgaatg cccaccaaca agtgactaga 300
taagcaaagt acggtacatg gatatgatgg actacctcag agcaataaaa aagaatggac 360
tattgataca tgctacaaca tggatgattc tcaaaggaat gacgttgagt tcagaaagca 420
agacaaaaaa gtacattcta tatgattcca ttaatataaa ggaatatatt atattcaagg 480
aatagtatat aaatataaag gaatatttta tattcaagga atataaatga atataaatga 540
tataaagcag atcagtgatt gccaggagat gaggtggaga agtagagagg ggaggaaaga 600
agggattact aaaggacatg aagaaacttt tggggataat gtttatgttc actattttga 660
ttgggctgat ggttttacat atgtatacat atatcaaaat gtatcaatct ttatactatt 720
aaatatgtgc agtttggttg taagtcaatt atacctcaat gaaacctcat taaaaattac 780
catattttgg gggatctaaa aaaaaaagnc ttntagaact tanntgagtc gtnttccgtn 840
gattccagac attgataant 860

<210> 4217
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 4217
gnnnnnttgn tcnaaagccn ggnnaaggaa ctcttgnaac ncccnnngca ggatcccatc 60
gattcggttt tgccccttt tagcctccca gagcttcgag gactcaattt taacccgaaa 120
tcctgccgng ggggaggggt tgcgtcgaga cctgggcccg gggaggttct cctgcgtcac 180
tttctgtcct gaaaggcgcc cttcctggtt tctgtggctc caattttcta tgcagcccca 240
caccccttgt tgttttgatc ctgagaaata aaagggaggc tgaattattc aaatttaaat 300
gaggtttccc cttcatggaa gtgctgctga cccttcgtgc agaaatgggg agcacttgag 360

gacacaggtg ggtggaggcc ctttgtgcgt ggctggtcgt attcgggcag ccctccgtcg 420
ctttttataa aactttgngt gagaagaata tattgataat gtcagtgaaa caagcagaca 480
ttgaaatgga ggcacagatt actccacaag gagttcttct gtatattttt tctagatgca 540
aatccnttta atatgnaatt aatgtaagnt ttctagctta tatcgaactg ggngnggcac 600
gggggacact gtactggata agntgggcan acatcctgag nncgaatgcc tgaccacgga 660
aaatatanaa tttattgctt taaaaaaaaa aaccacctna cangggcgna cnac 714

<210> 4218
<211> 849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

<400> 4218
gnnnnnnnnt ttnnaacttg caatcgctgg ctactngttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgagaaa ggctagctat attagctggg gttcccccca aaagcaacat 120
tggagaagga ctcatgggca gatactttct tctggaaaat gatcccgtag gatatgggta 180
gaaaaagaaa ttgggaccag aaagaatgaa acaggaaaga aagaaagcct attgaaggat 240
ataaaatttc tgtaaacaac tggagcttag tcccactgag gccccctgag gaactgcgca 300
gaatgtaaga cagaggagga aatatttagc caccagttcc tatctcccat tggccaactt 360
gatgctgagt tcaggagtgg tggctcacac ctgtaatctc agcattttgg gaggccaagg 420
tgggtggatc gcttgagcct cagagttcaa ggccagccta agcaacatag caagacccca 480
tctctacaaa agaaaaattt aaaaattggc tatggaagta tgaaggtata tgcctgtagt 540
tccagttact caagaggctg aagcaggagg attgcatgaa cccctgaact caagactgca 600
gtgaactata actgaacgat ggcactgcag cctgagcaac agagcaaaac tcttgtctca 660
aaaaaaaaaa aaaaaaactc gaggcctcta gaactatagt gagtcgtatt acgtagatcc 720
agacatgata agatccattg atgagtttgg acaaaccaca actngaatgc agtgaaaaaa 780
atgctttatt tgngaaattt gnggatgcta ttgctttatt tngtaancnt ttttaagctg 840
caattaaac 849

<210> 4219
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4219
gnnnnnntnn naaancagct ctngtttnna aaanantgct acttgttctt tttgcaggat 60
cccatcgatt cgaattcggc acgagaacaa ctccctacgt cctgtgtggg gccctgccca 120
agtggatgag gcattccttg aggagtatca ttttccctga caatccccat caccttttagg 180
ggttccctgc ttggctcctt tccagctgaa aaactagacc tgtgccattg gggaagctgg 240
acaaagtcta gggggcccgc ctggtagagg gtcccgggaa gctggatctg tcagcctcgg 300
ccctgaggcc cctgttaact caagactgtg agctgcctct aggtggtcac gtctgggagc 360
tagcttgtat ggcttctgac cagtatcagg atttctgttc tgagagcagc gtgggcagcc 420
tctagaacta tagtgagtcg tattacgtag atccagacat gataagatac attgatgagt 480
ttggacaaac cacaactaga atgcagtgaa aaaaatgctt tatttgtgaa atttgtgatg 540
ctattgcttt atttgtaacc attataagct gcaataaaca agttaacaac aacaattgca 600
ttcattttat gtttcaggtt caggggggagg tgtgggangg ttttttaatt cgcgggccgc 660

ggcgccaatg cattgggccc ggtacccaac ttttgttncc nttaatgagg ggttaattgc 720
ccccttgggg gaaaanatgg gcatagnttg tttccttggg ggaaaatggt attcccttca 780
cnaattccac acac 794

<210> 4220
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4220
atanagctat tgttcttttt gcaggatccc atcgattcgc gcccctgcat gatggcagcc 60
gcactcctgc ccagagtggg gcctgggacc ccaacaaccc caacacgccg tcacggtcaa 120
cccacaatac aacccgcaga cgccagggac gccggccatg tacaacacag accagttctc 180
tccctatgct gccccctccc cacaaggttc ctaccagccc agccccagcc cccagagcta 240
ccaccaggtg gcgccaagcc cagcaggcta ccagaatacc cactccccag ccagctacca 300
ccctacaccg tcgcccatgg cctatcaggc tagccccagc ccgagccccg ttggctacag 360
tcctatgaca cctggagctc cctcccctgg tggctacaac ccacacacgc caggctcagg 420
catcgagcan aactccagcg actgggtaac cactgacntt caggggaagg ngcgggacac 480
ntacctgnat acacaggggg gngggacaaa acaggtgtta tccnnnagtt gncacnggta 540
cngtgggggc ccaagngtgg gnggnntgaa acagntnttt ttttttnttt gnttnccccc 600
ttaaaattgg ganaananna ccctttttncc caaaaatggg nganaacccc aaaantnggg 660
caaaaaactt ggggatttgg gggaaaaccc ttaaangggg caaggggga gcnttttntg 720
aaaccccaaa nggnggggnt ntttaccctg gatttaancg ggggaaatna agggangggc 780
tttcctttgg ggaaagggan aaaattttgn gcccaaaaac cttgt 825

<210> 4221
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 4221
cgnnnnnttg ttgaaanagc naggctactn gttctttttg caggatccca tcgattcgtt 60
ttcttgcagt tactatgctg tccttcctat cactacctgt tggctgaggt agtgataggc 120
ctaaatgatt cattatctta aatgtactaa atatgttgag taatttttc ttctaaacta 180
acagaaagag agaacctagg agttactccc ttaggctggt taaagtgaaa ggtagccaag 240
tcaacccagc ttgtttcctt ctctcattag gaaagaacta ttgttcattc tcataacaca 300
ctttttccaa ttgcaaacat actcagggtt aaaatagttt agcacaaatt gcagcccatt 360
tcatttgttc ttcacaagct ggaacttttc ttgtaagcta aatattaaat ggttcaagta 420
aattggatac ataagcctga aactaggcgt ttctcattat acatagagta taaattaaga 480
cagacttttt catggtgaaa ggtttacagc ctttaaaaca tctgggaaga agtgggaaag 540
tagggaataa ctctgttaaa tatgataaaa gacaaagcac caacaaaggc ctagttctaa 600
acttgttata atttctcatg gggaagtttg ngggttgtca caaggttatg ggcggtccca 660
agcaagttta ccaatatttt tttagaaata atnacctccc cagaaaatat ttttnaaaaa 720
taagggaccc tttcntttta atatggnaaa ananaanaan ananaannnn nnntnnnnnn 780
nnnnnnnnnn nnntnnnnnn nnnntnnttt ctnnnnnct 819

<210> 4222
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 4222
naataccagc tacttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagaagg 60
ccttaggctt ttttttgta gggtgagagt gggggagaga tctcttgctc tgttgcccag 120
gctggtctcc agctcctggc ctccggcagt cctcccacct cagcctccca gagtactagg 180
attatgggca tgagccacca cacctagcca ggctttttat attgagttgg ttatatatgc 240
ttcatagcca cactttataa tattggagta tagtattaaa ttacagcttg ttgtcaagtc 300
agtgtttctg taagacagta tatccaatat tggttagagt aacacctatt tggtgataca 360
gatcaacagg gtgtctctga ttaatttagc tcctacatag ccagaagcaa gttcattatg 420
atttagaata ttgtacatgg ttatgcagga atcatcccaa cctatctgtg tttataggtc 480
agatgatgtt cagtttatat ctgctgatag tgtatatgca ggaaaaccta taaaaccact 540
tcagacttgt taaaacagtg agaaagccgt gattgaaata ttaatacaac ccgtgtggta 600
taaatttcat ttacantggg aatgtaaatg ctgtcatttg aatcttgnca aagcctgcta 660
ctaaaactct taaaancctt gctaggggaa taagtcttta ntnccaaaaa caatatanan 720
ggggatgtgn gtggataata caaggacaac catatgttgg tggcnt 766

<210> 4223
<211> 873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(873)
<223> n = A,T,C or G

<400> 4223
gnagnntnnn nntttgnaac nctggctact ngttcttttt gcaggatccc atcgattcgn 60
attntgaaca agctgtntcg tgtgtacagt tgctgctgtn attgagccag cagtgccctg 120
ncctgccctg canngtctgc acagctccca ctgcttctat nngntgttgg gcncgtgagg 180
catgacttgg angggggcct ggtgcctgag gacctgctga agagaatgct caccaccagc 240
tctntgntnc cctttctgct ttggnaatca acacgtgtnt gcctgcagtg gccgngaccg 300
tgactgtttc tgcccttgtg cctagttaan agccttcaaa agcataatga acactttnga 360
tatgatattg gaactttagt aaatgcttta cttccctcta attgcccnca aatgccttaa 420
tnttgtggac tgtttatttc aacaggtgga agtgttggtc ntgcgaaatc ttggtnttcg 480
catttcaaga agggagtgct ttattanttc ttctttctat ggaacgtttc aagtgattgg 540
atntaaagaa gggctctgaa gcaggagttn ncacctgctc tgagggaact tggggctcca 600
gggacgtacc ccaaatgtgc gcccagnttt gaaactccct gacagcctgn tactacntag 660
tgggctcgag ggtttncann atgaagaaga gttgtncccc taaaagtggt tgaaaccctg 720
tggctttcaa agcaaaggta cccnttgtcc cancattntt nncgnnaggt aggggnctca 780
ttggaaaacn tgtngggcaa ncctgntggt ttttggtccc ccctgntngt nacaatnggg 840
accttntttt gaacngtnng gaangggcta nnt 873

<210> 4224
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4224
caaancagct ttcngacccc ttcggaccca tcgattcgtt gctctatgtg atgtttatta 60
tcaaatacat ataattttga agattttaat gaatgnntta agattttatc tttgtgtaga 120
atgtggctaa agaaacctta gttgagattc aagaagttgg tgtctgtttc tgattcttat 180
cacaacttgc tacttagtgt ctaccaagtc ctccacctct ttgctcctca aagagctgtg 240
aaaaatgatg gcaggagccg gtacaacacc acagacttag agaagggcac agtgctgctt 300
tattgaatga tctaccaagg taaaattttg ccgggtcaag aaatagcaat ttaatccatt 360
taaaggaatg aatataattt gaaacattaa cttatttcaa gactaacatc tcaaagtgtt 420
gagacctttt ttaaaagagc tttctggatt ttgagcatac tttcactggc tgtgatttat 480
aagaatttgt ggtttgngga gtactgccta aatgccaggg taaaataagg cagncccatg 540
ccttacctgc cctgggctca nggcctcaca tccttttggt acgcacatct tttctcttct 600
cccttgntct gctctcccgc agcatatacc tcctagcccc cagagcaaan nnnnanaaaa 660
nnannngnnn cnnnnannnn ttnnnnnccn annnnnnnnn nngannnnnn naaaaacnnn 720
ngcctttnaa ananatnggg gggncnnntt nccgnnaacc cccacnnngt nanaan 776

<210> 4225
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(869)
<223> n = A,T,C or G

<400> 4225
gagtnnnnnt tttgnaacct tgctaatgct ggctactcgn tctntctgca ggatcccatc 60
gattcgaatt cggcacgaga gcagattcag tgtcgatgag agcctgcttc ctgcttcata 120
gatgatagaa gtgcaaagcc agctgtctgg gccttttttа tgatactgat cccattcatg 180
aatgctctgc cctcatgatc atttcaattc ccaaaggccc cacctcctaa tattatcaca 240
gtgataattg ggttttcaac acatgaattt gagagaaaca cattcagttc ctagcattag 300
cttgcttata tttatttcat ctcattctct ctcatagctt ttatttttgt ttcccctgtc 360
caatttatta tagtttttg tctttttata acttttaacc atcttttaaa tttctcttat 420
ttatttctct ttttactgtt gagttacaac tctcggctta ttcagtggca aagcaggaag 480
agatggcact gaggcatctt gatcctgaag gatcttttaa ttcctcttag cagtcttaac 540
atttttcca tcagcccctg ctatagtttg aatgtttgtg ttctctttaa aatccatgtt 600
gaaacttgat ctccaatatg acagtggtaa gaggtagggc cttatatttg agagcactac 660
agggtgagta cactcaataa taatgnattg gatatttaaa ataactaaaa ttgtataatt 720
ggaaatggtc cctaacccca aaggaaatgg ataaatgctt gggggttgat ggatacccc 780
aattacccct tatggngant catttacata ttnaaatgnc ttggatcaaa accattcacc 840
ancattcccc accattaaat gntntnncn 869

<210> 4226
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 4226
tnaaaataca ggctacttgt tctttttgca gggatcccat cgattcgaat tcggcacgag 60
agggacaagg ctataaatat cattaatacc aggttcagga gtttgcactg cactaaaaat 120
caactcagct atttgagcac cttttataga gtggaaatgg ggttgggcag tagagaagag 180
cacttttaga gaggcttttc tgcagtagtc aggggttaca cctgttaacc agccataatt 240
ttttttttaa gcggctgtgc tgaggatgag ccccatgtag ttggtgcagg tggggacaca 300
ctgcctgtgt aactagaaaa actaggcatg gccgggcacg gtggctcaca cctgtaatcc 360
cagcactttg ggaggtcaag gggggaggaa cacttgaggc cagagacaat ataatatata 420
atataatata ttgaccagcc tggacaatat aataagagcc tctctgtaca atttaaaaac 480
taaaagcctg gggtggtggc acatacctgt agtcctggct acttgggagg ctgtggcagg 540
tggattgctt gaacctagga gttcaatgct gtagtgagct aggatcgtgc cactgcattc 600
cacctgggtt ggagtaagac cctgtacaca cacacacaca cacaaaacaa tgcacaatgt 660
gcatcaaaag ggaagcgaat aggctctgta gtaggtggca aaaggtggtg gtctgggaaa 720
caaggccacc tgtggtgtgg ggtgggaaaa tgtttaaacc ctt 763

<210> 4227
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(865)
<223> n = A,T,C or G

<400> 4227
gnnnnnnnnn tttnnaactt ttcaaatatc ngctacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg gccgctgctt ctttcccgag cttggaactt cgttatccgc 120
gatgcgtttc ctggcagcta cattcctgct cctggcgctc agcaccgctg cccatggcat 180
cctgatgggc gtcccagttc cctttcccat tcctgagcct gatggttgta agagtggaat 240
taactgccct atccaaaaag acaagaccta tagctacctg aataaactac cagtgaaaag 300
cgaatatccc tctataaaac tggtggtgga gtggcaactt caggatgaca aaaaccaaag 360
tctcttctgc tgggaaatcc cagtacagat cgtttctcat ctctaagtgc ctcattgagt 420
tcggtgcatc tggccaatga gtctgctgag actcttgaca gcacctccag ctctgctgct 480
tcaacaacag tgacttgctc tccaatggta tccagtgatt cgttgaagag gaggtgctct 540
gtagcagaaa ctgagctccg ggtggctggt tctcagtggt tgtctcatgt ctctttttct 600
gtcttaggtg gtttcattaa atgcagcact tggttagcag atgtttaatt ttttttaac 660
aacattaact tgtggcctct ttctacacct ggaaatttac tcttggaata aataaaaact 720
cgtttgnctt ggcttctgca aaaaaaaaaa annnnnnnnn nnnnnnnnnn nnnnnnnana 780
aaaaaaaact nngagccctn tanaactntt ngggggggccg nntttacctt anaatcccgn 840
accttggatt angnatnccn tttnt 865

<210> 4228
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1228)
<223> n = A,T,C or G

<400> 4228
ggccngtncc ccttattgga acctttctaa tgctggtnta ntccangtac cnntcgtacc 60
cacgattcga attnggcacg aggctccacc cagttctccc agttcntnat ggacgactcg 120
ctactgctgg cctnggggggt gttcctgggg ccgcacaact cctnatccgg cgagattgct 180

gtcatcagcc tanactcctt cgcgctgctg tcccgcntgc ggaacaagnc ctatgacgng 240
tttggctgtt ggctcacccn ngaccagcct catcttnngg aacctgcacc gnattgnana 300
tatnacctnc tgctntgtgc tgnngcttaa cnttgnctan aacnatgtgg agtnngagaa 360
cgtcaacgng gtgaagcngg ctgnttaaga tccanaacct caatgncngc nncgtccgca 420
cggtgatggt ggcccgnctg canccgnttc nacagtcctg anttaaaaca gttnngccta 480
ccnnncaaan ancnatncat antnctnatn tctnttnttt ncttcnaann tnncatctcn 540
ntacttanaa tttcncttnc naancntttt cntnntttnn tnntancntn ttctnnctcc 600
tcccnnntct ctatcntgan nttcanntan tcttnnnnta ctacattctt canttcatan 660
tcnctcanan ttnnnctcnt annntncatt atccttncta ncnnanactc ttatcaccnt 720
cgcanacanc tantnncntn tcacncnatc ttctaatana catncctcct ctcgcncatc 780
tctnacnctg taacntctat atntnnttcn ctgcatnctn aataatatat ntacactcan 840
nacaananna canacaccnc tcatnttcat acttntnaan nctccnctcc tcatntnttc 900
tcgtcttnta catactcaac tactctatat ancgtngacn cnggnnatct ctncgaannt 960
tctcnctcac ttnagtcacn attntatcac tntcacttca tntcncgtct ccntctaaca 1020
nnnccattac cntcantngt gntnttnnct cnctcactcn ctntacatca tnnactnntc 1080
tantcatgct nanatatang tcncttcana tacnncgnta ncccngnnat nttntctcan 1140
aaccacnnct ctatntttat tttcgtacac tgcaatcnca taatcttcgg catcnttcca 1200
tccgncatct ncnnnnnata tcanntnt 1228

<210> 4229
<211> 920
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(920)
<223> n = A,T,C or G

<400> 4229
gngnnnnnnt ttgnaacttg ctaatgctgg ctactngttc tttttgcagg acccatcgat 60
tcgccaacat ggtggtctca aactccccac ctcaggtaat ccacctgcct cagcctccaa 120
aagttctggg attgcaggag taagccacca cacccgtcct cagtgcctgg acttctgcag 180
tggacttcct ttaaaaatcc tggaatatac actgcagtag aagaacaaag catacttcag 240
tcgtttaagg ctgaggtatg ctttgttctt ttactgcagt gtatattcca gccttaaacg 300
actgaagaag aatgtcaagt ggggaagtgg ctttggtttt cagtttgtgg gttctgaatc 360
cacacaaaga caggattgct ttctgaaaac ctgaattaat tattgtcctt acctcaataa 420
gacaaaaaat tagaatcaaa atcgttagta ttacagtcac agatatcacc aagattagtt 480
tgttgttata gccatatcct ggaacttctt tcgtgagcta aaaaaaanaa nanaaaaaaa 540
nctngagcct ntagaactat agtgagtccg tattacgtag atccagacat gatnngnatn 600
cattgatgaa ntttggacaa acccncaact tngaaatgca tttgnaaaaa aaatgcttaa 660
tttgnngaaa atttnnggga anccntatng gctttcantt tngnnanccn nttntnnntn 720
cnnggccttt anaccnangn ttanctacca accnaattng nnattnnatt ttnnantggt 780
ntnnaagggt ttnaangggg ggnnaangnt tnggnaaggn ttttttntnaa nttnnnncgg 840
gccnnnnnntn ccnaantnca nttnggncnc cnngccnccc anantttttn gnncccnttn 900
tatngagngg gtnaannnct 920

<210> 4230
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 4230
gnnnnnttta annnnnnnnn ttttnaanat acaggctctt gttctttttg cagggatccc 60
atcgattcga attcggcacg aggtgattcc tatttcaata tgtgaaacac ttaaccaaag 120
aatatatttc gatgaatctt aaacttgcct taaaaacaga agaggttaaa aagaatttag 180
aaaaaataaa gttttagagt gtttgagaat gtgtatataa aatattttca aagccataat 240
atggatgctc ttatggctca gaagcatgcc tactagaaca cgtctcggaa tgagagatgt 300
ttaattctgt cacctcccag aaagttttgc agggtttctc acttgaattt gcttcccttt 360
gcaacctctt gtcctgaagg ccccttcccc acctggaaat gctgaggcat gggtgtgata 420
agaatcagtc attttgaaga gaataagatg atgactttat taacatttcc atatatgctg 480
attgtgtgtg tggcggggtg ggggctgggg tggaggctta aggcaaaagc tagaattagt 540
catatgaatt atgggcttgt ttggagaccc acctgaggct cancctagc cctcacccac 600
ctggggagtt tactacctgg gggccccct tgnccatgcc tccacttcca aaacaattca 660
attgcttttt ttttgggtnc caaaataaaa ccctcagcnt agcttcttgc cnannnnaaa 720
annnnnnnnn nnnnnaaaac tcgancctn taaaaactat aagtgaggtc ggttttaccg 780
tagatnccna accttgataa gaaaacattg 810

<210> 4231
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 4231
gnnnnnttttt caaatacngg gcctcgtgct tttgcaggat cccatcgatt cgaattcggc 60
acgagagtca ttacaagtta ggatcctggg taaatggcaa cctccacctc ccaggttcaa 120
gcagttctcc tgcctcagtc ccccacatag ctgggactac aggggcacac cagctaattt 180
ttgtattttc agtagagttg gggttttacc atgttgacca agctggtctc aaactcctgg 240
cctcaagtga tccgcccacc ttgacctctc aaagtgctgg gattacaggc atgagccatc 300
acgcccggcc acgctgttgg ttcttaatga cacagcttaa ctttattgtg aaaagattgc 360
agcaacaaat gagattttac ctgtatttgt taaaaatgct tatccttgtc taagactggc 420
aacataagca gttcttaggc ttctatgcca atggacacta ggcagtaata catgtgcagt 480
gctaatagaa aatattggag taagggtgta ctaaggaagt tctcaatctt tccccttcac 540
tatcttctgt aatgtaactt caataaatgt gattctcatc ttggcacaaa attgggaaaa 600
aaaaaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntcnggcct ntaaaacttt 660
agggggggtcn tttttccntn nacccnncnc cttganaang aanccnttng gnnggngntt 720
ngggcccanc ccccaacntg gaatngnnng ngaaaaaaaa aggnttttt tnggnaaaat 780
tnggggnngg ctttngnntt ttttttnnan 810

<210> 4232
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4232
caaatcnnag ctactngttc tttttgcagg atcccatcga ttcgaattcg gcacgaggtc 60
atgcccggct aatttttgta tttttgtaga tacagggttt naccatgttg gccaggctgg 120
tcttgaactc ctgacctcag gtgatcaccc gcctcggcct cccaaagtgc tgggattaca 180

ggcgtgagcc actgtgacgg gccttacatg caatttttat ttatagccag tattagagaa 240
ttactaggaa atttcatttt tatatttagt gggagaaagc catctacagc atgtcttcaa 300
gcatggacta tctgtaacat acagtgtgct tgcttttgaa ttgnttgant gttaaatggc 360
cgtaactgat tgnattttcg ttaattgtta atanataaac cagatgttct gaaatctgtt 420
cttaaagcag ntgccctcaa tggtgntttt gcctncctgc ttctgagcct cttgggntta 480
ctggagagta caggtcataa agagacctga actcttgttg tatcaaccat tatgtcatcc 540
tctnactgcc aacattttna aacagactga ggtntgcctt tcgtaanaaa catntactta 600
catattgcca ttccttggnt tacctggggg aaagcccnaa tcgttnttag gacttnanan 660
ggaganacac aggtctnttg aaanggatgc cgggggctta atnaaataaa aaacttttgg 720
ntcaataana agtctggnat taaaaacaan attaattcaa catttntggn agaaggnacc 780
ttggggcngg gaat 794

<210> 4233
<211> 927
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(927)
<223> n = A,T,C or G

<400> 4233
nntggggntt tcnnnncntg ggatactntc tctctgnagg ngncgatggg attcgaattc 60
ggcacgaggc ggagnaagag gggtngtngg ttggaaggag gaattctcct ttagggaaga 120
tgtctgggaa ggnctntctg agagagtggc ctttngaaag gagaccctaa ttggntgacg 180
gatgagaggc tgaaccatgt aagtatctgg ttggaaaaca ttncaagcgg ctncagangg 240
tntgtgcaaa ggccnttgga canggtcacc cnngnttaca tggccnccnt nagccagcct 300
nntaaagnaa agggtntcat naacaaattg cnnaaancct nnnnaggttn gncanaggag 360
ggagaggcnn tggaatgttt tgctngaata gggttagtag tgcccctnca tgattgacca 420
gttccccctc tcnanaatgt tncctnactg ncgcaggttt atgtagnggg ggnctgccnt 480
cccatanttn gnccctctn tancttggnc cntgggntgg gatgaangtn catccganna 540
cancttttta nagttgcccn nctgtctcna ttnacnnatn acccccnncg aaactttgtc 600
tcccnancac cccaaggatt tcccttnggg tatcgncncc anaanaaagc aannngtngg 660
atcaaantaa tgggcnccca ncanttttg aattatncta cncctgnaga ctcccnttca 720
nttngcnttt taaaaanccn ctttttntnn cgggntnggg tgcaantnnc tcttnaaatt 780
ctaaacnnat cttgnnnacc cccnnctaaa cntggnnnng gnccccctaan ctttccnact 840
tcaacaaaan ngtgaanttg catattatct tncattttgg ntctntaang acccnaatgc 900
nnggngntat nannncanan nncnncn 927

<210> 4234
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 4234
ggnnnnnnng nnngttnana cnccccnnnnn ttttcaaatn ctaggctact cgttcttttt 60
gcagggatcc catcgattcg aattcggcac gaggtttagt cttgtagctg tatagcattc 120
cattgtataa cttataattt atttatgggt tgtactattg atgaacattt gagtagtctt 180
cagtttggaa ctaccacata tggtgctgtt atgaatactt ttgcacaggt atgtgaacac 240
atgtacacat tgcagttggt atatatacag tactgaatta ctggcttata aatatcatta 300

aattttaaaa acaaaattaa ttgccacaag catattattg tatctttgaa ttttaaacca 360
aattaaaaat tctatgagtt gttgaatatt ataattgtac tattaagttt aaattgtctg 420
tgactatagc tataagacga tgcccatggt actttgaatg gcaacactag caaaataata 480
ttctaaggaa gagggacang ttttgggggа caactancan tgtctgtagc ataatataga 540
ctacaaattg attactatat cacccatgaa tttagctcag actcaaacac aaatttantt 600
tctttaaaaa atagaaagtc catttatntt taaatggggc ctgattttcn nanaaaaaac 660
nnaaaannan aaaaanccgn ccctttaaaa ctatagggga gtncgttttn cttnaatcca 720
gaacttgata ananacattg ttgagtttng gccaaaccac aactagnatn gcantgaaaa 780
aaaatgcttt tttttgggaa atttgggat 809

<210> 4235
<211> 853
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(853)
<223> n = A,T,C or G

<400> 4235
agngtnnnnn ttttctaacg ntggntactc gntctttttg caggatccca tcgattcggc 60
acaattggta ttcaaaccca agtctgtttg actcccaaac ccatactttg aacctgaagt 120
ctgtactgct gaaagtttct ccttattgaa gaatttatat tttgcattaa tttatgtctt 180
cagaattata caaagtattg ggccacacca aatttgagtc tggtatagta gccttcttgt 240
aaaaaattat atcatataac atttttatga ctgtgaagac ctcttaattc ttcaggaagg 300
agggcccttt ttcaaatcag acatcctggg gtttttactg accttatttc attctctgaa 360
gaatgaagga atttcccact ttgtagtaag tcatggaatg tatagcattc cttctatagt 420
tgaaccagat aaatattagc aagtctgttt agaatatgac actggaagtt ttttcctgtc 480
ttttttaaa agaggttttt ggaattatag tcaatctgaa acttggtctt actaataaag 540
aagtgaaacc taagtgagct cccttgctcc ctgatggctc ttggtataag tctcacttaa 600
gtttctctga cgattttcag ggttnatttt tgtgagtgac ccaaggaacg gtgtattttg 660
atttgaaaac tgaatggntg gaggtgtgta ttggaagcaa tagtctgaat ctttttgggg 720
gtnatatact ccttttttgaa gctgatgaaa gcttnggnaa acntcccana aaataaaccc 780
ttaatccngc ncatnaaang gaannttngc atttcnnntt tnngcngacc cngntnaata 840
tncaattntt nnn 853

<210> 4236
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4236
nnnnntttta agancagctc ttgttctttt tgcaggatcc catcgattcg cttgctcatc 60
ctcatttggt aaactgctac gttaaatgtt tcaggtatgt ctgattgacc tgggctgctt 120
ccgagaaatt gatgagctaa taaaaaagga aaccaaaggc aaaggttctt tggaagtact 180
caatctgaaa gatttgaaga aggagatgag aaatttgaat gacacccatc agtctcttca 240
cctctaaaac actaaagtgt tttcgtttcc aacagcactg tttcatgtct gtggtctgcc 300
aaatacttgc tcaaactatt tgacattttc tatctttgtg ttaacagtgg acacagcaag 360
gctttcctac ataagtataa taatgtggga atgatttggt tttaattata aactggggtc 420
taaatcctaa agcaaaattg aaactccagg atgcaaaatc cagagtggca ttttgctact 480

ctgtctcatg ccttgatagc tttccaaaat gaaagttact tgaggcagct cttgtgggtg 540
aaaagttttt tgtacagtag agtaagatta ttaggggtat gtctatacga caaaaggggg 600
gtctttctaa aaaaagaaaa catgagcttc atttctactt aatggaactt gtggtctgag 660
ggtcattatn gnatcgtaat ataaagcttg gatgaatgtt cctgattatc ttgagaaacc 720
agatnttgaa aaattgnggt cgggccttaa ataatttcgn tggacatgct gncataactt 780
aaaatat 787

<210> 4237
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 4237
nnncgnngtn ttnaacnncc agngntttag ccnagctatc gntctttatg cnggancca 60
tcgttcnaat tccgcacgag aaancatcaa ggtggctgnt tgnnagcant gatgatgacg 120
aatctgattc tnangatgac agtaatacnt naaaattnaa ccncaanttn ngggcngagc 180
tggacaanaa ggttnntgaa nactnaanat anttagactt ncctnntgtn ctnatttttt 240
gacataggtc ctnaaatctg gntnaangca ggcgcccctt atcctacntt atntcatcng 300
ggngtctant aggagagtga ganttntgtg atccnntntg attgggncan nngtagatgg 360
aggcggctca cataccaatg ttggaatnta agcagtgcgg ggaggtntac atnngcagtn 420
ctctccncaa gctaattcnn ggngcagggg cnatnatnca tggttnttgt ctgtctgtgg 480
aaacaatgna tttangcnnc ccnnctggca cnnctgacag atcttcggat gntgctcttg 540
tntctaaaaa ctgggtgtcn agangaacac tgatgtatgt anatgaaaaa aaatnctngc 600
ttaggganng nggaatcttg ctgaagngaa aaantnaaag ncctngantt tttttncaan 660
ggnntnttgc naaaataann ttaaacgaat tgtacnnaac acntgaaacc gtangntggt 720
ttttnanttt ttnggggngn tnaaannntt ttggtccaan nnnggcatgg nccttncccc 780
tttcntattt aaaaaaggnt tcggtancnc aaaangaat 819

<210> 4238
<211> 1421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1421)
<223> n = A,T,C or G

<400> 4238
gngngnaaca cngaanancg aaaccnanna aacggcncna anancnggna aanacangcn 60
ncggnccncg ncangaaccc nttgcaacnn ncctntangc agancccanc ganncgngtc 120
ngnaangccn gctgcntggg aggccagggg caggnntaat tcncntgana nnnagancag 180
gnngaanann nngccgggcn gggnagaagn nnaacggaca atgncacatt caaagcanga 240
nccacccana nagcgnagca nnggnngaag ccagggaang gacncnctgn canttggaaa 300
actngggaag ccngaaggan cgaggggccc tgccggnccn acaanagnag ctcantngaa 360
gggacgtnna cncaannggg acgcnagaac gcggccaanc aagatacgaa aggggaaann 420
ccggnacgag agcccngggn nacggcncnc ggaaanggct agaaaaaaga ataaaggggn 480
aanngatcgn aggnatngag ggccatnggg ancacaggcn caaaagnggc cancaaagan 540
cacagnggaa gngnccanag nactncgggn cgggagatca gggggngata aantgaataa 600
ccaaggccna nggacncgaa aaaaggngng nccaaaaang ggggnccnan aaggggggag 660
cnnccaaaga ggncaaaana aaatngccng aggggcnaga gaaaccnccc ncagaaggan 720

```
gggggncaan aaaatcnaac cnnnngggnn naaangnggg gggggggaaa gggacnntca     780
ccaaaggcnn canaaaaann ngaagggncn ccccccnnca aaaangnaaa aangggaaaa     840
acccnatntc nagttcaggn naaaaagtng gggggaaaag gcccnaaaan aaattaaatt     900
naaggangaa anccnnngag annaaccccc canggcaaat ngggccaaac atgggnncac     960
ncgggccnng gggggcatng ggccccccaaa tnggnccccc ccnaccgggn aaaggggggc   1020
aaaaaaggan cggggngana aaaanggncn gcctcccata gggcaaccat ntgcacgggg   1080
gccnccncaa attngggnag ggnaaannen aantcgcnca ccaatgttaa ngggaaaagc   1140
aaccggcaaa agggccatnn ggaangangc cccngnaaac caaanagaca ncaggntagt   1200
gaaccttccn aangggaaat aagatnccgg naaaaggcaa ggncgnaaag aaagtngaaa   1260
nccgangnaa ccngangana aggcnnaana ngggaancna ttacannncn aanaagnagg   1320
caanggntgn ggaaagaaag atccaaagcc cnnggggngc agnatgccng gnaaaantgg   1380
gaagntanna nganectgcc aaaggcttng gaaaaacnnc c                       1421
```

<210> 4239
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(864)
<223> n = A,T,C or G

<400> 4239

```
gnngtnnnnn ntttncaann tnggctactt gttcttttg caggatccca tcgattcgan      60
ntncnaggcc ggggncctgt cattntngat catnatcttn ngntatgaat nggaccttta     120
cagtcactga caggacaaca acaggctgga gtnggngccc atnctgctgn ngtgcctnna     180
agaccacanc cctnanaggc tnctggtcct gctgtgcatn gcccattgga tgccganggg     240
ctnatnactc anactagtac ctcacntgat cagatgncag aatcaaccaa atnntgcaga     300
tttcagtcng ttgtgaagta tttgctgcat caacatgtag aacgactaac attcatgatg     360
aagccgagaa acatncacaa gtcctgncgg ctnaaaaagc ttatgatcct gcacgntntc     420
tnatagtngg ctaaacagat ggtataaact gacgaanaga cagctgctac tgctcctgcc     480
aatgtgagca aaggcacaat actacttgct ccaggaccta aacctgttcg aagaagattg     540
taaattggaa gatgaattta ggccagaagt ngatgaacat acncaaaana cgggtgggct     600
tagctgctgn ncntgcatca caacctnntn ttnncagntc tgctgggaac gataaganng     660
tnttcangca tcaattagnc gtaataagga aaccngcanc gatttngncc aaatggnata     720
gcctattgca gggncnaatt taaaggatgt ncttnnngag anaaattacc tgggaagttc     780
aactgggaac aacntcnaac cattntctna cctataagcc aantggccgt taactgtgaa     840
catncttggg ttttaaaann gcnt                                           864
```

<210> 4240
<211> 468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(468)
<223> n = A,T,C or G

<400> 4240

```
ntccttttga ntacntntac aagctacttg ttctttttgc aggatcccat cgattcgaat      60
tcggcacgag atttcaacat actgttgtct aatcatcgtg actcccccaa tttctctttt     120
ttagaggaaa gtattgtaca gatgtatctt gaagattata atcttggttg attattgcct     180
attctcactt taggaataga tggtgatagc ttatgacttg tgttgtataa cgaggtagaa     240
atattgctgn cttctctgac atagcttctc aaagagatca ttaatgtatg atatctaata     300
```

aaccatctaa tgcatgtaac agtgatcagc aaattaataa attagacctc tattcatgct 360
taaattatca aagctaatat ttaaatgaga tgttctattt taattaaaat ttctggcacc 420
atcgttaatg agacttagaa tttcaactag tgtatttagc tcttactt 468

<210> 4241
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

<400> 4241
gtnnttnnnn tttgantnca aatacaagct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acagaagacc aagcgcatgc gancctcttt caagcatcac cagctccgga 120
ccatgaaatc ctactttgcc atcaaccaca acccggatgc caaggacctc aagcagcttg 180
cccagaaaac aggtctgacc aaaagagttt tgcagggaga acaaatcttg gggcattaca 240
gccaaacatc ccgacgtttg aaaattccct aaagtattaa aagaagggga aaagtttgat 300
cggaaatcca ctgcagtgaa gacaaagaca ctattaggtt atgataatca tacattaaaa 360
aatttattaa gccaaaaaaa agagagagag agagacttaa atgtcattta ctgaatgtta 420
acgaaacttg tgttctttat ggtgtctaac acaactgaag gcctaaaatt atgtgg 476

<210> 4242
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(846)
<223> n = A,T,C or G

<400> 4242
gtntttcncn aanngntggg aactcgctct ntctgcagga tccctcgatt cggaaatata 60
gngagatgtg ggatgtgaat gcccatgaaa gacatattat tacacttgaa tatattcttg 120
cttcacttta ccctncataa natgntgtac attagtgctg atcangttta cagagntaca 180
tgggcgcttt cctaaccatt cagtnangaa ttaaaatatg gcattgtata acaactggga 240
agaagctcat agnggatata aagtagagta gataatgggt caccttggat agcctctgat 300
acattcttgt atatgggcaa aataatgatt acctatacgt gtatttaagc ttaagcatca 360
tataaacagt ctttttaanc ttatggtaaa ntnnatnata tntaaaagct gtgatctcta 420
ggnagtcctt aagtnattag tacngnactt naaaaagatt tttaataggt ccgncaccgg 480
tggnntcatg cctgtaatnc cagcacttcn ggaaggctng angcaggccg aatcacctga 540
aggtcnngga anttcgagga tcanaccttg gccaaacatt ggtgaaaacc ccntggtctt 600
aaacttaaaa nnttttttaaa aaannntaagc ccnggccntt ggntgggnan aggcgnccct 660
ggtaaacccn aagctntcct ttaggaaagg cttgnaggcc anggagnaaa ttancnttgg 720
aancccnaaa gggggcanaa annctttncn gtctcngcnn aagnaatcgc antcaaatgg 780
naactntcan accntaangg ggaccaagna ancncnnana cnttnattct tcaaaaaaaa 840
aaaaat 846

<210> 4243
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4243
tnananctgn tncncnttca aatnctnggc tactngttct ttttgcagga cccatcgatt 60
cgggaagagg atgactgggt atgctgtgcc acccttgagg gccatgaatc cactgtgtgg 120
agcttggcct ttgacccgag tggccagcgc ctggcgtctt gtagtgatga ccgtactgtg 180
cgtatctggc gtcagtatct accaggcaat gaacaagggg tggcatgcag cggctctgac 240
cccagttgga aatgtatctg tactttgtcc ggcttccact caaggaccat ttatgacatt 300
gcttggtgtc agctgacagg ggctctggcc acagcttgtg gggatgacgc gatccgcgtg 360
tttcaggagg atcccaactc ggatccacag cagcccacct tctccctgac agcccacttg 420
catcaggccc attcccagga tgtcaactgt gtggcctgga accccaagga gccagggcta 480
ctggcctcct gcagtgatga tggggaggtg gccttctgga agtatcaacg gcctgaaagc 540
ctctgagcta cctcgacttt ggacagagta atgacttccc cagaaaacgt catataagac 600
ttttaccagc ccctgaanga ccaagaggga gccattcctt tgaactttca tttaactttg 660
gnttnacttc tctttaaaac ttggggtaga aantgcaaaa gcccncanaa attgcttttc 720
cnttcccccg ccttttgaac atgaaggncc ttnaattaaa agaagcttcc cggaaccatt 780
naaaaaaaa 789

<210> 4244
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4244
nttcctaatg tttcggntcc ttncttccgc ttctaangct tggcgtgcac tccagcctac 60
atgacagagt gagaccctgt ctcaaaataa taatnataat gaactgagac tcanaaaaga 120
tgtttgttca nggttacaaa gctcagacag gacagggcag cattggaaac caaaattggt 180
ctgactccta gctcatgctg taaatcacgg tgcaaggctt ctactatcta tgttgttcct 240
aaaagaatgt ataaatgaaa agatggttaa catattaagc aaaatatgtt aaacgtcaaa 300
tgaactgtat aaacgataaa tgctggagag ttgaggtggc aaagaactca tgcccgaggt 360
gatctgggaa ggcctcttga caaggtggaa ttatagctgg tttttgaaga atccgaaagt 420
gcttagattg aaaggtgaga catgtacagg aatggtttct aagatgtcat attntatctc 480
tgtcctcatc ttgactggca ctaatgaaca tcaaagattt caacctaaat acattgagtg 540
cccagtatgt gaanggcctt atttatggtg gtttaaaagc tttttaacat actttaaaag 600
aagggactgg ttaatctnca ctgnctagat ccattagacc ccggaccgga tggccccang 660
ggcctttggg aatggcgtgg tgggacagtc ttncactttt gcacataccc aagaaaagaa 720
tggncctttt gggaattttg cagacctaca atctggagg 759

<210> 4245
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 4245
tccccttgaa ancccntaac caggcttcnc angncaaacn ntttggaaaa nccaanacnn 60
aaaanaaang ggangggnac nncngcacgn ngcaagagan tacacaganc ngacngnttt 120
taacgannat cgnaaaaccc caaatggang gannttgagn cacntgcnaa agggcccaac 180
tgctcanttt aaaaaagagc agngtccgac annngcaaag aaangcagan naagaggcaa 240
ggaccccaca gaacacatan ctgaaaataa tncngaataa ntnnacaaca cgggtggggn 300
aattcaanng gacgnaagnn ngcatccntn nttcctnata ancctcaaat gnaatcggga 360
aggcaangnt ggccacaatt ccacaaanca acgggattta ccatnannnc tncangattt 420
caccaggata ccatantcaa ggagtgaaaa gaaaagtggg gaaattcaag gaacttggga 480
cccaccnngn nanaccntta aaaatnaagg gactcntcaa gaaaagggaa ccntnangag 540
tcnnaaaaaa agggaagang aatggaangg ggnccataaa ggcccenggn aaaagggatn 600
caagnaagaa anaaaaatgc aanttanaaa ggactgggaa gaaagganaa naggnnncag 660
gcgaaaacag ggcccatcta ggaanccngg ngaaantaan tncngncnag aaaacccnnn 720
gcaaaaaggg naantcgnnn nnacnnanta aaancccnnc aanggatngg caaannnncn 780
aaagggntag aaangncanc ngagcgagnt acacgnanaa aanncnnata ananntaann 840
cc 842

<210> 4246
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 4246
gnnccctttnn ctntacanta caagctactt gttcttttttg caggatccca tcgattcgta 60
tctgtctgtc ttgatctcta ttctagcctc ttttttctgat tggccctctc ccctctcttc 120
tgtctgattg gcctgtatcc ttccatcacc ccatctgtct gctggattct ccctgtctgc 180
ctgcagtaat gtatgtgata gcactttata aattataaag cactatgttg tataaaacac 240
cattatcact ttgtcttcct tcttacctta ttttttcttc ctttatctgg cttcccttct 300
tctctctttc tctctctctc tgtttgcctg tctgcatccc ttttggtgat tttgcctgcc 360
ttctctgtca gtcaatctcc attccctccc tgccagccta tttttctgcc atccctcttc 420
tctgtctgct cagttcttgc atctctcctt ctgtgtttcc aggtttctct atatttcttt 480
tgcctgtgta gtctctctgt cgttaggcct tttatctatg cctgtgtgtc tcactgtcta 540
nctgcttgtc tccctgcctg tcactttcat tgtggggcat caagtctctg ccttcttctg 600
tctttcaagt acttcaaaaa ataaaaatta aataaaaaat taaatcctta tgataatggg 660
tacangagaa atttttttgtt taatgagaag atataaggng agacaaagaa ctcaaaatta 720
ctgtgaaagc aatgaanaaa 740

<210> 4247
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 4247
agccttttgc nacncgtttc aactacttgn ctttttgcag gatcccatcg attcgccaga 60
aagtgccttt acatttttgt cttggaacaa ctntgcaatt tcatcttgat ttaatatttc 120
tagtaataaa gcatcttccg actccacatt cttatctctg ggcagacatt ttattcttaa 180

gaattgtagt gnttgatnag aagctnaatg gagatgatta acgtgtcaat gattaataat 240
tataacaaca ttcaaacact tagaaattat agnatttcat canatgtctt tttaaagagg 300
catttctggc cagttgtggt ggctgacctt tgggaggctg agacggctgg atcacttgag 360
gtcaggagtt cgaggtgaga ctggccaaca tgatgaaaac ccttctctac taaaaaaaaa 420
aaatacaaaa attggccggg catgatggca ggcgcctgta atccc 465

<210> 4248
<211> 1070
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1070)
<223> n = A,T,C or G

<400> 4248
gggnggggnn ttttttnnaa annnnnnncn ntttttttgg ngaaaaaagt ccccgccagg 60
gccttacctt tgggtntnct ttttttggn ccaggggaat nccccccaatn cgggnatttc 120
ccggaaaatt tccggggcca ccggaaggaa aaaaccaaat tantnaaacc ttcaaaaaat 180
gggccctttt tcntaacagg gnacttaccc aaaaagcctg gtcctggtan tcaagggttt 240
aatggggtgg tttaaaaatc cataaaattt tctggggaat ccatggaatc cttaaaaacc 300
ttttaaattg ggtttcccat tttcttacnt ttacttcntt ttactaaaca aaggtantcc 360
ctggaatggg cctggaaaaa atnccatggt ttggnaaaat tttggaaagg tttttggaaa 420
ttttttccca ggaatccaaa aatantggaa aaaatttttaa ttttttccaa tttttttaa 480
aaggtaccaa aaaaataatc caagtttggt antaaatcaa ttgggtaaaa aaaccattaa 540
aaaatttttg gcttattaaa aaaggaattt tttaaaangg gcctaatttt ggaatttaaa 600
aaccatttta atttacctta aaaacctctt tttggcttan gaaatttttt ttttaggaaa 660
atttcaagcc attcggggaa gggaanggaa atggtggacc attaaattaa atgggatccg 720
aaaaggcccg aaaaggtttt aaaaaaggtt tggtggaatg gcccntcaca atggggttgg 780
ggaanggggt taattctaag ctttcttaaa gggactggaa tgggtttggt ccacaaagga 840
agtggtccat caaggtcata aattngggtn aagacttaat gggcttanaa ttttatggna 900
tttatacccc gatggtattg gaattgagat gaatatttta tgaaccaaaa tggagccatt 960
gtgtaagaag tatagtatta aatataagtt aaaacttgga attttaaatc cttggagtat 1020
gtnagccctt caaagctctt gangctgaag gcccgattnt ttgcagtggg 1070

<210> 4249
<211> 1336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1336)
<223> n = A,T,C or G

<400> 4249
aggnnngnnn nnnnnnngnn ngnnngnnnn ngngnngnng ngnnnnggnn nnngngnngn 60
ggngnggngn nngnnnnnnn nngannnngn gnnnnngnnn nnnnnggnnn nnnngnngnn 120
ngnnannnna gangnnnngn nngnncnnna ngangggngg nngnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn gnnngcngnt angntgggaa aaaanccccc ntttttgggg aagaaanann 240
ccccccnggn ntnctttttt tttgggccnn gggggnaaan cgccccaann ccgggggaag 300
ggggcgggnn aanatgtgnc gggggncnaa ccggnaaggg ggaanggnga nagnnnngng 360
ggannnnnng nnnggnnagg ggnnnnnngn ngnntttttt tttntnnaan aggccnagnc 420
gangnnggggg nnnnggnngg cngnnnnaag ggggngggggg gggggagnt angggggcan 480
gnnnaggggg gncantancn nanggggnn gngagaacgn naaacaacac agggncnngg 540

aanggaggng gnnnagnnng nnngagnnac gnggcgnnng gngngnaang ccnncngggg 600
gcngggngan gngnananca ngggnnanag nagangggag gngggaaagg gngggccgg 660
aantgnngga gnggcaaggg angnngganc ggagggangg gggcgagagg angagccnat 720
cgagnggggg naggggngac aggaanggan aagnanggggg gnaaggcgng aancgaaggg 780
gggggnatga ggaggagann gngagngctg gggggaaggg ggnannggggg gggggnngnn 840
gagnnggnna gnggggnggn ggangangat gggagcnaan cggtggacaa aacggcggcn 900
caggnggggc aggnanaaaa gggccgggag cggngcngng ggggaggngc ggnggtgtan 960
gaggcaggna aattganngg gagacnnggn gngcgnngga gggnngaana gngnnngaan 1020
naagacggaa cnaagtggag gagggggnan nnggcgcagg agagngaggg ngtanggnag 1080
anananangg nnaggacngg ngncgnggng nngagtgagn ggcgcgangg agngngaggn 1140
gagcggngan ngagggnngg nacggggatg gggangncng ggggngnnnc gcggggcgtg 1200
gggacnccng gggggggggg gggnnaagnn ancnnggggg ngnannagan gangggngnn 1260
cgntgcnggn gngggggggg gagagnaang agnacgnggg gggggnnacg nnggggnnga 1320
gngcgagnnn gcgcgg 1336

<210> 4250
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 4250
tcngngagtg gtatgtctcg cntcnccgaa nagcaggcgg ngcgaattcg gcacgagncn 60
aaaacttngn aataanncac tttcatttnt tttctagatt ttgtacatct caggccatat 120
nagcaaagct tgntgatagt gnaggntnct aaacgctgca aatnngcagn ctttaccact 180
acaaagaagt ctggatgatg gatnctctgc tnttngtcaa aatagttact gctgctgtag 240
aaatttcatt tttagattna actgtgntgg atgagctatc ataattcaag tatacattgt 300
cttagnctat caaatattca ttgtcatgca gtagtagtna aaacatcnna gatgcagcaa 360
gcntattaag anntatttac taaaagaaat aggaggcatt tacatcttta ttattgtact 420
cngggatatg caaacnctnn gatantataa acagttatgt cccctataaa tcnggtcagc 480
aacctcnntt gattatgctg gggnaagtca aatagtntgg aagtaggtag agtnctggnc 540
nacaaggtgn ttcaaanctt aannattngg aacacngggg nccaagggct nnaatcntta 600
aaaggaaaac tggggnttta ntgcactnaa accgtttntg gngccntang gttcnaaann 660
nccanaacct tgaatnnant gtggtanccc ctgggncaaa anaaangncg ggnattancc 720
cactggnncg gaanaacaat tgcctaaata aaggtncccc caattgaatt ccccnanaaa 780
nggcctnaaa anggntcccc tntttccaaa gnaaant 817

<210> 4251
<211> 1351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1351)
<223> n = A,T,C or G

<400> 4251
ttggnggaaa acccttttttc caangagntg gganaaacnc cgatcgcccg naangcgnnn 60
ggggcanaaa gngcnatnca gancgnngna antnnagccn ntttttancn cccacgngca 120
ananangcng annaaccngg gnatnaanaa nnggngcccn nngncaaana nnnanacncn 180
atggccnnga angnncnacc cttacnnaac ncaatanccn ncganancag aannagntga 240

accnnnnnca cntnacaaaa nntctagann nccgntcacn caanaagncn cnnngccann 300
acnnnacnnc nanncnancn ncngcangga ncncacnccc cncncgnnnc canacnanca 360
ngacngacnn aatantncag annacncgag cnntgacnta annacncaan tagcannngc 420
cnctcgnngn acncnnaact ntngnngagc ncnnagngnt nnnnagctnt acgcnncgat 480
agananagcg naaaacngan nnnnnnctnt cnanannnag actangacag acnnngncaa 540
cacatnnnta gaacnnngca cacatntcta ncgntatcan cagnncaggc annnnacaca 600
anagcancac nngantgann cacaanaatc acgcntngaa tnnncntnnc tnannnnaca 660
caaccaanat nnaanaatgn aagnacaccg aacactnnac angcagacta nactcngnca 720
cnnaananaa gaactgacng acannacaaa tanaaacgnn ntctacatca cagangtacn 780
nncagacana ancnncngna nnacaancgg cncacacagn tanacntntc atagcnntcn 840
ancatcccnc agtgcacaca agngcncgna aannntcatn tcnctanana cggatnccat 900
nataggaaca gnnanctgcn tacannnctn ncaagnaatg nacagatgcn cgcanganac 960
gnaagnnncn nnatnctgca tgcntngcnn ancaaatggn angatnatcn nanatncaan 1020
nngcngcata caanngntcg nctaacacng atctgcatcc atngacggat anacgtngag 1080
tangcctnnt cacctcnnna gatctgcgtn ncganatcan cacnatangc ntnaanagtn 1140
nncagaacag tacnagactg gnnantnaag ntannatngt ntnnagtata ataanncaca 1200
ngnagntaga cnncaancgn ngnacnanat nccnngcann cgcaaanaga gcanccnnan 1260
gcgnaccgac cgcagctaan acanacnact ntacnncaca aancntnnga ggccgntcta 1320
atnctncatc nnnncacctg nacgngaccc g 1351

<210> 4252
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4252
taaanntnat ggntggntac ttgntcttta cgcaggatcc catcgattcg aattcggcac 60
gagggagccc agtgttcctg ttcatgaaat ctnccttta ctggaaaaca ggaatattga 120
ctaccaaatc acaatgcaat tgaagccgta ctgcttttt gagcagttat tcattccagt 180
gattaaaact gattgtgcan aatattctaa gaggncanaa attggngtgt ntaactacat 240
ttttagtgat gcaattnatt gattagtgag taagatactg agttttattg agagatttga 300
ttattataaa gtaaaaatac ngctgnatta gggttacnaa cagnaaagtg tcttaatgnc 360
tnangagggc atnttanctn cactacaaaa ccanatnttg nctgtacttn tgaanagaat 420
nttgtngntn ctcagctgnt atncaananc tnaggaagnc tntatggntg cnttctatga 480
catgtgnatt gtgatntgca tataagnatg ggtggngtgc nataccatat tctnggttnt 540
taaaatctat cactttncac cttncacttt gacgtggtaa aactttaaaa accaangtgt 600
gnaaacccnc nggnttctta aaatacnagg ccttagatct tatcagncgt tttgacaaag 660
caggtttttt caanggntcc ctcctnanan ttttttnnaa cggtcaaact aangnnnttt 720
gaggnaagct cttagtttga ccggaaaagn tgggnccnt 759

<210> 4253
<211> 1382
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1382)
<223> n = A,T,C or G

<400> 4253

nnncggnnna nngaannggn gnnnnnaggg gnnggggccc nnggnganng gnnaanggnn 60
gnnnnnnnna nngnnggaag naaggnnggg aaaacagggg naanggnnga caaannnnac 120
nanngnanaa naggngngnn ggggngggan gaaanagggc gnaagggang gnaaggaann 180
gggannnncg nngnggnnnc ancnnnnnnn annccnnnnn gnggggnncn nttngntggg 240
aaaaaacccc ctttttgggg gaaaaaaaan nccccccngn nngnnngngg naaannnnag 300
ggngaanaac cccnacgcng aaagaangng gaanggnntc anggacnacg nnangggcga 360
ncgcccgagg ggcannnggg gnagcnngca nccannnntt tnccaacgaa gggnananaa 420
cnannagncn gcanccngng caggggggngn ncgncgangc gcnnnanagn acacacaaac 480
taanaagaan nggaaganan naacananna acgaaangaa ccggnaaaaa gagacgggca 540
nngcnganan aggagcngga cngnaggggg anccnacngn annaagcgng gnagnnnggg 600
gnggaagagg cngcncggaa ngcnnnnacn antccgnaac naaanagnan naangactag 660
gcaaccngaa cnncacgacg ggnnncnann gcggannenn nnacnagcgn nngagggnna 720
agcgcgcggg acnaacgggg nccncggann gggannngaaa angccgnaac aaaagangga 780
cgnaaaaacn acncananaa cggnnagggc ccngcagcnn aagnaggngn ggagggcagg 840
gnangcggga aagcgggaga cgcnnccagc gagaagcgcg cnaangaaan ngancgggcn 900
ncgcgcnggg nanncgngcc ggnannagag gacnnatagg aagtgcacna ncaaacgcan 960
cggcatcnca ngaggngang ngatgnggat anagngancg nganannena nagaganggg 1020
gagagnaagn agancgcgga angnacanca angcgnagaa ccgngagagc gnnccangca 1080
ngngagaang gnanngaggn nannganana cggngcgagn gangnnnnga cacganggac 1140
acgcgcggag aganncgcna acatgaagna ancggnngga tgggaaannn gannganana 1200
cgganggaan cnggggncga gangagangg ngaggcncac cnaacacgga gggggagcna 1260
ggtagnggca nnnaangaga cgcggacgaa aacggganaa ccgaaanggn ggngcaanga 1320
nannanggga agacgcacgn gnggnnggga gnaaannang ngggaanacg aanaaaancg 1380
cc 1382

<210> 4254
<211> 1245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1245)
<223> n = A,T,C or G

<400> 4254
cgatacacat cntnnncaaa tgatatcnat ntaanatatc aatatnttnc ntnttnatac 60
tctgcaannn aagaaaagan anantnaggt gctgttgaan ccatnanctc ttgtttttt 120
gcagnnccca cgnttcgaat tcggcacgag gtttttcctca ggcacaatga gccactgcag 180
gcttttgagg agaagagtga caagctgnag agctgtgttt taggacagct atcctagagc 240
tatgtgtggg cagagagtac aagcaggtta tttatgaggc tngggtaaaa aggcagacag 300
gggacacatt tgtcatatgc cctattgagg cncanaatca nggaacagga ggtctgcngg 360
ttncangaca ggccaaatca ngganaaaag ggactatccg ggattancaa gtcactggtg 420
atcganatat cactttcttt gaanntttan aaatggtttn tgttancact tgcnannctc 480
ttcattaana naacctgcca caaaccaata aanttannng tttaaaatag aatcntgnag 540
ttatananan cccaatggga anctnggnta atannttnta nngggaanac tnttnnngtt 600
naaaaaggga aanntnnggg aaancccgnt nanangagag nggnagnntn tggcataana 660
gacgnggnnt ctctcctcta aacganatac gaatacctct tncgcnnnnt acncnnnngg 720
tgntnnanaa acgntatntt tctacacggg antctntgtc gttttttttaa agataatnag 780
nagnacncaa tacataantn ncaagcncgc gtnanaaana nantgnacgc tnannataan 840
aactcttntc ngtatnggcc nctaanctac ttaanggana aagcttaata taangntgat 900
ggcaagggtn ccccntgtag antcnttacc nattgtctca acgatctccc taacgttatc 960
nnnntngaca ccatgacgcn attngangcn cacttantnt gaacgngtaa aagnntttnt 1020
gggggtgcnn tannaatacn nangtcnnca tcncntttnn nggttanant ntccncancn 1080
tngatataaa gannaaataa ntggtgcaac ntatattttt cggnnacnna nntatattct 1140
ctntgggnna tncatgtctn catncgtgcn ttatcnattt ntngtaagna gaaaccngtn 1200

aatntcttat gaannnntnt cnntttcgta atttgaaana ccncg 1245

<210> 4255
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4255
aggnggnatt aannnnnttt ttanannngc ngctcttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgagaa acaatataac tcaaatgcct ttctacagga ctacaaagct 120
gtctgtatca ggttatggtg ttaaatcata atttctggat catgatctta aacctttaat 180
tggttccatt tctactttac tctttactaa caagtatcct gatgggcctg aaaatccatg 240
ttgaaatttg aagtttgaat tttccagatc aaatatgaaa tttattttca ttttttaaag 300
tacaaaatat cagttgtata atcatggtaa aacataaaat tttgctataa aagattttta 360
aaggctattt gattaaaaca tttatttact taaactcttt gctagaattt tttttagaat 420
tcagcatcgg aggaggaatg tgacataata atgatcgaaa gccgaaagtt taaaagttgt 480
gatgccctca catggttgga gggttattct agcttctaag gactgaatgt tgtccacaag 540
agtgtcatca ggtcataaat tggtaagact taatggctta gatttatgta ttatacctga 600
tgttattgna ttgagatgaa tatttatgaa caaaatgagc acattgtgta agaagtatag 660
tattaaatat aagttaaaac tttggaattt taaatacctt gggagtatgg taaagccctt 720
tccgaagtct cttggaggct tgaaaggccg nattcttttg cantgggn 768

<210> 4256
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4256
tggngnttta nananncngg ctctcntctt tttgcaggat ccctcgattc gaattcggca 60
cgaggtaaaa catgtaattt ggacatgcaa gacaatgctg ctgccaacta acattgcatt 120
gattcattaa gatgttattt ttgaggtgtt cctggtcttt cactgacaat tccaacattc 180
tttacttaca gtggaccaat ggataagtct atgcatctat aataaactat aaaaaatggg 240
agtacccatg gttaggatat agctatgcct ttatggttaa gattagaata tatgatccat 300
aaaaatttaa agtgagaggc atggttagtg tgtgatacaa taaaaagtaa ttgtttggta 360
gttgtaactg ctaataaaac cagtgactag aatataaggg aggtaaaaag gacaagatag 420
attaatagcc taaataaaga gaaaagcctg atgcctttaa aaaaaatgaa acactttgga 480
tgtattactt aggccaaaat ctggcctgga tttatgctat aatatatatt ttcatgttaa 540
gttgtatatt tttcagaaat ataaatatt attaatttaa aatttgaatt tgtgtttgac 600
taacaacctc gatggatctt cttncaacct nccattaaga tcctgcagaa gaaatagaaa 660
tattcaaata ttgcaaggtg taattgtgag acaacttatt ataatacgtg ttaagttcta 720
ctgganccat ggaaatggtt taagaaaaa 749

<210> 4257
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

<400> 4257
tgnttcnant nttttacaac tacttgttct ttttgcagga tcccatcgat tcgnattctn 60
nacgaggctg cttactaagg cttnnactgn nanatcgntt gacccnntnn gtcgntngct 120
gcacatgccn atattnnnnc gacnnngctn nntcctgngc ngntangnga tgacctgnnt 180
cnggacacaa tggngaangn gtagnggtgc nngacatngg cgaaattgtg ngcnactaga 240
antngtgnca angcnngntt tcacatancc tnnnnnnnct acttgccatn ttnnantgan 300
cttnctgcct cacnacattc ntgngttcat aacnngacnc nctaagngna caactccgaa 360
cccacattgg ncaaaaaaaa cnacatatgc tnacngttcc tnctgcccat gtgnncnntn 420
aacttgnatn atcttanact gaaccagngc tccacccatt catnct 466

<210> 4258
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(464)
<223> n = A,T,C or G

<400> 4258
tngatncctt cgatcagctc ttgttctttt tgcaggatcc ctcgatncgg cctatcttag 60
agaatcatct gctcanncct tattcctgca gaatacaaat gtcacattct aacctgttca 120
gagattgtct tcaanataaa antgtgattc ctacatggna tgnnaaacaa nctacactnn 180
tnggcaaaag gcattattag ggntngattc cataatgatt gagtnctntt nnnnagtata 240
ntcatgcanc tgaacaaaat gaagctcatt ccactgcntn gaanaatnnc acaaatgtga 300
tgctnaanan aggaagccac gtgcanacac tnactatata attntatgta catnaagttc 360
agnatccgga tagttaccnn tgnnaaggan gtaactnnan gagtntgagg aggggnttct 420
ggtatctggt taatgnactt ngtaccantt acccaanagt gnnt 464

<210> 4259
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

<400> 4259
gnagcntnnn nnttttctaa ngttggctac tcgttctttt tgcaggatcc catcgattcg 60
aattcggcac gaggcatcct gtccttggga acccttttctc attctccaag cctggtcagc 120
tgcctgcaca ggcagaggtg ccctcagccc aggttagcaa cactcatagt tttgccaatt 180
accagtagac actagtggaa ccatctaact ggaacttcct ctctccttcc acttatttcc 240
tcaaacttgt tgctttacac tagacacatg caaatgtatg ttttaaacac accaaaacag 300
atcatgccaa atgagttgcc tgtcaaaggc tggagggcag gaggagggcc tgggtttggg 360
ttctttcctc ccagcctttg gatggtgcct tgggcccctt agccccagcg ccagggcctt 420
ccagctgagg ccacaggaaa gcacttttttt atgatgtact aaaagccaca gtatgtggca 480
actgcaaaag gatcaggaat ttagggtatg atctcggtca cgtgtcccgg gccgctgagg 540
ggaaaggaag cgggcatgat tgtagacaat gaggggttc tcttgatgta atgaaatgca 600

attttatggt ttggtgcaaa aactcctatt ttccagttaa ttaactttat ttctaaagca 660
tatttttgat ttnccatcna nagcnataaa gcattaaaat tctttaaaaa aaaatnatcn 720
ntctcnantn ctccanatnc aaaaaaaact tcgnnccntt naanaccttt ttgnggngtt 780
cntnttttnc cgngannccc cnccnttnnn nctnngattc cntttgnctg tnttttgnga 840
cnaacccccc atactnagan tnctccgcaa aaaaaantcc nt 882

<210> 4260
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4260
nngtgnantg ngatnttggc nagcgccatg antnnnggag tcgancgann nncggcacga 60
ggagaaccnc ntaaagccct nannnttcct ttttttngna ngaagnggga gtanatggnt 120
ngcnatntan nccnanangg cacnntnnan ggaggngnaa ccactctgac gttnnatngg 180
cantgagagn tagancagag gctgncctgc ntggaagctg atatacccta taatncanag 240
ggnnnnagac nantnttgng aaactcggtn anacattcta tttanagaca tgcctgctga 300
tatgacntat atttttatag ggatacccnt ttatngctgg gacatnaanc ctgnttncac 360
tcnaaatgnn cctgctttca gaaaatagaa cangagacat gccgaaaaca gngnttctat 420
tattgtgnat tatgantttt gttctntaga actattttcc aactcatctn nttncctgca 480
gctgnggaat ctggacagcn aaatcttgtg gacgtttatt ccactaagcc cagggatgag 540
atggcactca ggttaaagaa ctaacatttt ctgaaccctt nattaactat ttaccagcat 600
caggccctct aagtacaagt gtcagaatcc ttcatttcaa ttttttcact cngggcattn 660
cccattacaa agcccatcct attattgaac ccnaanttna gcaaaccact taggtctgcc 720
acttaagaan tcngngnnnc aaggttgccn aagaa 755

<210> 4261
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 4261
tgtgttttct nnctgtggnn actggccttt cnncangaag cctggccggt cgaactgcna 60
ncggcnncnn cggaaagggn ntgnncaann gnaatttntg cngntnangn tgtatacacc 120
ttggangann nnnntgngcn attgcngntc tnngangtat tcangncnnn taaattcntc 180
atnanccnca cttccatngt ntnntcngnc acatgctnnc antntatnat ncntgngaaa 240
ngcngantat cnatgctaga cntnnntgca ggctgnngcn ncgganntgt cntgacnnca 300
aactgtttac tctnantgac tgtgnnggcn tttntcnnat gaaaannngg gcagtattcc 360
cttnctaaan gagntcnnag gaagaagatg agaancgggg tggnatcagn aactgannng 420
gcacngaagc acgtgnnaga ccctcnnana atgatgtgan nggaccaaaa gcntgatcac 480
caagcgcttt cangnctgga ttccnnncnc gnatccatan nagtcntgtn anccaggacc 540
ttnnaggnat catnnnccng gcgtgtngnn aatgagcatn gtgtggtaca cttgacgntg 600
tcccctggtg cntactntgt aattcatgct ncactagatn agncnagnac ntatatncgc 660
ttcggcactg tgtgctngta ccnaccncnc gttggaccgt nattcccctt ncaatgtgtn 720
anatnttngg ttgggcct 738

<210> 4262
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 4262
ntcntngata canctacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gcaattgtct atttatcttt tatnttttta agtcagtatg gtctaacact ggcatgttca 120
aagccacntt atttctagtc caaaattaca agtaatcaag ggtcattatg ggttaggcat 180
tnatgttnct atctgatntt gngcaaaagc ttgaaattaa aacagctgca ttagaaaaag 240
aggcgcttct cccctcccct acaccnaaag gtgtatttaa actatcttgt gtgattaact 300
tatttanaga tgctgtaact taaaatagggg gatatttaag gtagcttcag ctagctntta 360
ggaaaatcac tttgctaact cagaattatt tttaaaaaga aatctggtct tgttagaaaa 420
caaaatttta ttttgtgctc atttaagttt caaacttact a 461

<210> 4263
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4263
anngannctg nnggtcgtgt aacgcccttt ntnnangaag acnggcgatn cgaattccga 60
ggatccaaga gggcnnnact ngggngggct tcntttcagc tgaaggctgc taccgtaccg 120
tgtgggagcg cctgggtctg gccttccaga ccccagaggc atactgccag cagcgagtgt 180
tccgctcact ggcctacatg cggncactga gcatatgggc catgcagcta gccctgcaac 240
agcagcagca caaaaaggcc tcctggccaa aagtcaaaca gggcacagga ctaaggacag 300
ggcctatgtt tggaccaaag gaagccatgg cnaacctgag cccagagtga gccgtctgaa 360
ctgtgggagg gaagtgctaa cagcccagcc tncagcctgg cctttcctcc ttcccctctg 420
aacctcctgc aaccctgagc catcaggaca atcatacccc ttcccttctc tccacccaat 480
tgtgccagta aatgggggtt gagggtgacc taggcagcat tagaatcact tatttatttc 540
tttcctacct gttccctgac tgcgtgaaat gttcagggag gtcagttgat ttccccaggt 600
acattcatgg tgtgacagac acatgggtac aaataaaaga cccagaaagc caacnaaaaa 660
annnggtttt nanncnnnga attttaaaaa nntntaaatt ncntngnntt aaaaantnct 720
tttntgnaaa aaannnttttt ggccttttt 749

<210> 4264
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4264

ngggtnttt atanaatcca ggcctacttg ttctttttgc aggatcccat cgattcggcc 60
acatcggggg caccaccctc catgcctttg caggcatcgg ctcaggccag gctcctctag 120
cccagtgtgt ggccctggcc caaaggccag gcgtgcggca gggctggctg aactgccagc 180
ggttggtcat tgacgagatc tcaatggtgg aggcagacct gtttgccagt ggccaggcct 240
atgtggccct ttctcgggcc cgcagcctgc agggcctacg tgtgctgact ttgaccccat 300
ggcggttcgc tgtgaccccc gtgtgctgna cttctatgcc accctgcggc ggggcaggag 360
cctcagtctg gagtccccag atgatgatga ngcagcctca gaccaggaga acatggaccc 420
aatcctnctg agcctnaccc acaaagagga gacaaaaggg ttggcctgtg gcctncccgt 480
cctcctgctn cctatggccc anggccccag ggaataactg gagtaggcag gcagtgtccc 540
cttctgtatt ttttanggac tntaaccttc tgcagggtta aagggagaag tctttaaacc 600
catataccaa ctgtgcttca gttcttttan ttttgcctgg gtaaactgct gtagggtcag 660
aattaccctt tctgtgccaa ttganaatga acctgtgtgg tactgatgtc agaggacaaa 720
ctntntgaan ggcttgaaca nacttga 747

<210> 4265
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4265
ncntttatca aancgnttgg gctactcgnt ctttctgcag gatcccatcc gattcgaatt 60
cggcacgaga aagaaagggc tcgtgacaga gaaagatnna aagagaagtc gttcacgaag 120
tagacactca agccgaacat cagacagaag atgcagcagg tctcgggacc acaaaaggtc 180
acgaagtaga gaaagaaggc ggagcagaag tagagatcga cgaagaagca gaagccatga 240
tcgatcagaa agaaaacaca gatctcgaag tcgggatcga agaagatcaa aaagccggga 300
tcgaaagtca tataagcaca ggagcaaaag tcgggacaga gaacaagata gaaaatccaa 360
ggagaaagaa aagaggggat ctgatgataa aaaaagtagt gtgaagtccg gtagtcgaga 420
aaagcagagt gaagacacaa acacttgaat cgaangaaag tgatactaag aatgaggtca 480
atgggaccag ttgaagacat taaatctgaa ggtgacactc agtncaatta aaactgatct 540
gattnagacc tcagatcaga cagaggacta ctggttcgaa gatttttgga anaatnctga 600
ngaacgggat aaagtgaaga tcgnncnttt aaaaaaatga ggttgaaaag aaagctatna 660
gtggcattna aaaagtntta agctncantt agttttnttt attattatta ttatttaaaa 720
ggttaatttc aaggacttga tgttgacctc cngatttccn gaacatgtgt tnaatagttn 780
ttattcccct tgg 793

<210> 4266
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 4266
tnnnaatcnc nnnaagcctt tgttnaaccc ctttgctact ngcnctttt gcaggatccc 60
atcgcttcna attcggcacg aggttatncc agtatctgnc ancagaatgg cattgtgccc 120
atcgtggagc ctgagatcct ccctgatggg gaccatgact tgaagcgctg ncagtatgtg 180
accgataaag gtgctggctg ctgtctacan ggctctgagt gaccaccaca tctacctgna 240
aggcaccttg ctgaagccca acatggtnac cccaggccat gcttgcactc anaagttttc 300

tcatgangag attgccatgg cgaccgtcac ancgctgcnc cgcacagngc cccccgctgt 360
cactgggatc accttcctgt ctggaggcca nactgacgag gangcttaca tcaacctaaa 420
tgccattaac aagtgcccnn tgctgaancc ntgnnccctg accttcttct actgncgagc 480
nctgcangcc tctgcnctga acgcctgngg cggnaataag gagaacctga agctgctcac 540
gaagaatntg tcaagcgaac cctgncnaac agccntgcct ggcaaggaaa gtncacttnc 600
gagccggtta ggctagggct tgctgcaacc gaagtcccct ctttggtntt ctaaccatcg 660
ccttttttaa nncggaaggg tgtttcccca aggattgccc cccaanaact tnnaagncct 720
ttggccccaa tttccnantt tttgaaanaa ggnaggnccg ccntnctttа nngggcttcc 780
aaaccttggg cttaganccc nggctttttt t 811

<210> 4267
<211> 469
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 4267
ntnccntttn nantacanat acaagctact tgttcttttt gcaggatccc atcgattcgc 60
catgcccagc tgtaatttct tattaggtgc cagacattat gaattttacc ttactgggtg 120
ttgggtacat ttggatgtct ttaagtattc ctgagaatta ttctcaggtg cagttaggtt 180
acttatgaat agtctaattc tttagagtct tgctttcaag ctctcttagg gcaggagcag 240
cctttagttt atgactaata tggccctggt actgagacac taccattcta agtacctaaa 300
tacccaatgc cctgtgtagc atgaggcatt tcactctggc tgataggact gtgaactagc 360
ctcaacctta tatggtcttt gatgattgtt ttgcctgttc ccttctgtgg ttcttttccc 420
gtgtcttcct tactcacgct tactgctcag tactcagccc gaagactct 469

<210> 4268
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 4268
cgttacttcg atcaagctct tgttcttttt gcaggatccc atcgattcga aaacccctac 60
aaaaaaactt taaaaaaaat ggcagcaaag ggtagttttc atctggtgtc ttttatttaa 120
gtttttaag ttaagaaaag ctggtgacat atttatacgt ttttgtgcaa aaataaatga 180
atggcaatag attttaaaaa atcttattat gtacttctgt gtgaaaaagt ctgtataata 240
tttcccttaa atatgcatta ttttacttgt gagtttttc tgaattaatc tgaaatgtca 300
agccctggat ttgctacaga gtgagaagtt attttatttt tttttatttt taattntgga 360
aattctgcag aaatcanaac tcttaccatg gtttgaacaa aaaaagggga aatggggagg 420
ggaaaagggt gggattgtcc ancatgcttg tatgtatatt tca 463

<210> 4269
<211> 468
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(468)
<223> n = A,T,C or G

<400> 4269
tccgtntgan taccgttaca ngctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacagaa gaccaagcgc atgcgaacct ctttcaagca tcaccagctc cggaccatga 120
aatcctactt tgccatcaac cacaacccgg atgccaagga cctcaagcag cttgcccaga 180
aaacaggtct gccaaaagag ttttgcaggg agaacaaatc ttggggcatt acagccaaac 240
atcccgacgt ttgaaaattc cctaaagtat taaaagaagg ggaaaagttt gatcggaaat 300
ccactgcagt gaagacaaag acactattag gttatgataa tcatacatta aaaaatttat 360
taagccaaaa aaaagagaga gagagagact taaatgtcat ttactgaatg ttaacgaaac 420
ttgtgttctt tatggtgtct aacacaactg aaggcctaaa attatgtg 468

<210> 4270
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4270
nncttactna aaccgtttgg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggac ctatcttgat ctggatagta aagtgaggac tttaaaaaag tttattaaat 120
tactgggaga aatcatggag cacagattca agacatatca acaatttaga aggtgtttga 180
ctttacgatg caaattatac tttgacaact tactatctca gcgggcctat tgtggaaaaa 240
tgaattttga ccacaagaat gaaactctaa gtatatcagt tcagcctgga gaaggaaata 300
aagctgcttt caatgacatg agagccttgt ctggaggtga acgttctttc tccacagtgt 360
gttttattct ttccctgtgg tccatcgcag aatctccttt cagatgcctg gatgaatttg 420
atgtctacat ggatatggtt aataggagaa ttgccatgga cttgatactg aagatggcag 480
attcccagcg ttttagacag tttatcttgc tcacacctca aagcatgagt tcacttccat 540
ccagtaaact gataagaatt ctccgaatga ctgatcctga aagaggacaa actacattgc 600
ctttcagacc tgtgactcaa gaagaagatg atgccaaagg tgatttgtac ttaacatgcc 660
ttgtcctgat gttgaaggat ttgtgaaagg gaaaaaaaat tctngactct tgatataata 720
aaatgagact ggaggcattc tgaaattgaa aaaaaaaaaa aaaat 765

<210> 4271
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = A,T,C or G

<400> 4271
nnccnnttna ntanagatac aagctacttg ttctttttgc aggatcccat cgattcgctt 60
ggggccagga tcctggagtc cttgcttggg gataacttcc tggagagctg ctcagtcagc 120
tataccctg ggagtctttt gttgagggag aaataaatgt cattttgcaa agccactgat 180
attctgtggt tatcacggca gtttagagag gaaggatggg ggaaagctgg gttgcgctct 240
agccttgaca cttcctgcct ttgtagtgtt aggcaaacat ggcaacccca gaaaactcan 300
ctgcctcagt tttaaggcat gcagggtctt tgtgaggacc atataagcca cgtggagggg 360

tctagaccaa gcatagtgct tggaagaaag ggcgtgtgtg ctaatgattt atgtctcttt 420
tctttctgag agtcttgctc cccaacacca naggtgagac cacctg 466

<210> 4272
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 4272
ttcnctttna tatagataca gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgagct ttagccccag tcaagttacc tcagcaaaga ctagctgacc ctgccaagcc 120
ctgcccaagt tacagaatca tgagcaaata aatggctgtt tctgttttaa gcttttaaat 180
tttgggggtg gtttatgtgt caataataac tgaaacagat aatatataca gaataaactt 240
tagttttaat aatctaagta aaagcccact aattcattat gcagaaaaaa atgatttttt 300
tgagacgggg tctcgctctg ttgccaggct ggagtgctgt ggcacaacca tagctcactg 360
cagcctccac ctccctggtt caagcgatct tcccacctca gcctcccgag tagttgagac 420
cacagtgccc ttggtgtggt ggaagcaagg tgccatgtga taagt 465

<210> 4273
<211> 630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G

<400> 4273
nnnnactntn tcnncatnnn cngancnnnn ntctcgngac antttgnnna acngntntgt 60
ggggnnngnn nnanntnngc nnnnnnnnnn nnnnncnaan ccttggaaac ctncctnngc 120
cgatccnnnn ntgcannatn ccgcnggngg gactngnaan cnngnccana taatnagggn 180
ttnnnctgna cnnggcaaaa accccannat taggnanggn gcgctaggng gcccnananc 240
catgnagtgg cacgncgnca nncngttgtt tnnccaatcn nnaattcgna tcgcctcggn 300
ancgcccctg gggtangggn acactctgnc nantggnccn actgntnana anaaggganc 360
nagtgtcnng angnccncgg cntacncnag ngaatcctnc cngngnnccg ggngactagg 420
ggnggatncn nncangaagg nnnggagccg nagaacanac ntgggtgacn ggntgngaca 480
aagnnnccgt cnnaaaaatg ctangggnaa nnacanaagg agnntcnaan tgcatnanna 540
ngtgangttc caacgcccna tgaaaaaggg annanggaaa gtcgcacant gattganang 600
ggncgccngn ngngcatatn naaatnnanc 630

<210> 4274
<211> 618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(618)
<223> n = A,T,C or G

<400> 4274
tnnncnncan ncnnnccnct nnnncnnntn gantnnnnnn nnnnnacntn ctcangnnng 60
tnncatncan naagnnngta ntntngtcgc ntgnncntnn nncnnntatc gnaatnnnnn 120
nnnnnnntnc ttnccctttgg taaccccttt tnnnccntgg cntnacncat gnaacccgta 180
agncggngcn angcnatagc tatnaacgaa catttnncnt ngctacggnn nattgnactn 240
acgcngncnt gtangangcc acnttnacat gcnaggncgg cacaccggtg naataatngn 300
gtcgctnnnt gggtgcggcc ctaacgcttc cnttngcntn agcncangng cctnagactn 360
ttacagnngc attgganaan gncgcggcgt nacccgctgc nntacncaat naaggngtgt 420
gaaacacngg acntgggttg aaaaacnntn aanccngatg gcngagcnta agccccgngg 480
gngcctgagg aagcgtgcag cnaggtncnn atganaaatc acttgtgncn aaacggacaa 540
tganctgcgn agnggaantc tgngcncgtt aggncacnca nntgtnnatt gggcgcattg 600
aannngncatg actccnnc 618

<210> 4275
<211> 1446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1446)
<223> n = A,T,C or G

<400> 4275
gnngngnann gggnggggna nnggngaggn gngngnggnn gnggnggngn gngnganggg 60
nnngccnnan nnggccggag cnggggnnnc ggngngagag ngcnngnaaa gccctttgga 120
aaggncggag nngagtggng ggccgncgga gagggggnnn ggggangngg ggnagngggn 180
ggggggggng nngcncgnnt gagnggnngg ggngagaggg gngcnnnnng gnnggggggg 240
ggcngcnggg ggngngaggg nnggnnggna gnggngnnng aaggnggngg ncgangnnnn 300
agtggangnc gngagngcgg gggaanggag nngcgngggg nngnnggggg ggnngngggg 360
agggnnagga gggnnagagn gncnngtggn agggagncng gnnnnggaan gagcgaccng 420
gaggggaang gnagggannng gggngaggga gaggnnggnn agncgnagag agggncnggg 480
nggannacgg annacgggng cnangncntn gaggcnnccn nggggaggcc nannanggtc 540
cggggggnnc aggaaggann caagggaatn aggaaaanaa gncgccaagg ggnnggnaag 600
nngaaannnn gcangggggg ganngccggg agcggannng gnngagngan agggnanggn 660
gggangaang cgggnnnggg ggaaggagng gagnganaaa angggccagg gagggnggag 720
angngnngac cnnnggnana ncaangggng aaangcngga ngggggnaga gaggnnggan 780
naaccngaga nggaaanggg gangggggcc aaaggggggg gggagccccn gggnnggaaa 840
agggganccag nttaagaaaa gagccgggnn agaggggnng ggaanccaan ngtgngagag 900
ggcgnccgaa gatggngaga nnaaaccagg ggganagcat gggggatnan agggganaacc 960
cganganggga aaggcaaggg gaacncnggg anngggggaa ncgnaagccg ggggnggcng 1020
ggnnaanggg aanagnngng agggggggaa ggggaanant gaaccnnggg naggaaaaaa 1080
cgggggggaa ntnaaaaaag gggggggaaa aggaaantgc gggagccaan gnntgaaaga 1140
aaaanaaata gggnaagggg gggggggaga naggggnaaa aagggcctga catagaggng 1200
gggggcgagt atgggnnaaa gaaaaagggg gngntnnaaa agggncncng ngaggtanga 1260
ggggagggng ggtngggaga nagngaanag aagagcgaag agatnagtnn naaaaaangg 1320
gngganaaan ntgcgcaggg gaagctgggg aaaggggngg ggaccccann agccncggga 1380
anatgtgncn gggaaaanaa gggggggggn gnnaaganag ggggaaaana aaagggccca 1440
ccnggg 1446

<210> 4276
<211> 762
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4276
ggtggttttn angnnnnttt ttctantngc agctacttgt tctttttgca ggatcccatc 60
gattcggntg gctctcccag cgtctgacct ggcgtgtctc tcagtcccat cccaaggcga 120
tgttctctac cgctagatgg agcatcagac ctcaagtcaa gancatccca gttcactgnt 180
gcttnnggtg gctctantct gggagggang gggagacttg aaaatgggan gatctcattg 240
gcttgctaag gnttnggatt tacctcntat cactggagac ccattgtagc gacaangtca 300
agggaacnng aacttgttta ctatcngtgc gctctacatt gaatttaccg acaaactctg 360
tgannaatcn gatatgaaca atgcacnctn nnctngtctn agacannnnn ttannaagaa 420
ggngcacact gaacnnnctn acagcactnt tngntagggg cactgtactn tgacctgnat 480
gaaantntan ccgaggccan aatngaccna ctatnaagct taacacngat tnnagnnata 540
taatnaatga nnattnaana tgancctgan ctannagctt aatagtnctg atgggcctnc 600
atgtnatntc aaaggncttt gaattggcta cttanaagga naatggccaa tngnacgtgt 660
tnnangaaag ggaaacagga aangcnccta gtcccantgt aatgngtcnt nggcaancaa 720
nctgtttaaa acggtntcgn aaaaaaanan nttccnnnnt nn 762

<210> 4277
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4277
ncntttatca aancgnttgg gctactcgnt ctttctgcag gatcccatcc gattcgaatt 60
cggcacgaga aagaaagggc tcgtgacaga gaaagatnna aagagaagtc gttcacgaag 120
tagacactca agccgaacat cagacagaag atgcagcagg tctcgggacc acaaaaggtc 180
acgaagtaga gaaagaaggc ggagcagaag tagagatcga cgaagaagca gaagccatga 240
tcgatcagaa agaaaacaca gatctcgaag tcgggatcga agaagatcaa aaagccggga 300
tcgaaagtca tataagcaca ggagcaaaag tcgggacaga gaacaagata gaaaatccaa 360
ggagaaagaa aagaggggat ctgatgataa aaaaagtagt gtgaagtccg gtagtcgaga 420
aaagcagagt gaagacacaa acacttgaat cgaangaaag tgatactaag aatgaggtca 480
atgggaccag ttgaagacat taaatctgaa ggtgacactc agtncaatta aaactgatct 540
gattnagacc tcagatcaga cagaggacta ctggttcgaa gatttttgga anaatnctga 600
ngaacgggat aaagtgaaga tcgnncnttt aaaaaaatga ggttgaaaag aaagctatna 660
gtggcattna aaaagtntta agctncantt agttttnttt attattatta ttatttaaaa 720
ggttaatttc aaggacttga tgttgacctc cngatttccn gaacatgtgt tnaatagttn 780
ttattcccct tgg 793

<210> 4278
<211> 903
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(903)
<223> n = A,T,C or G

<400> 4278

ggtttntttn tttgnngntt ttgngcnttt tnaggcgtnn tntctgatcc ccgctaattg 60
cattcggncg ngctncccta cagatantgc atgcacnttg nagntaattc agtgttntta 120
acngntncat antntatcaa gcngtncatg aangtgtngt natnaaatgt ctatgtatct 180
ntagttacat tcaaatnngn aactttataa acatgttnta tgcttgagga aatttctaag 240
gtggtagtat aaatggaaac tttttgaagt agaccggata tgggctactt gtgactagac 300
ttttaaactt tgctctttca ngcagaagcc tggtttctgg gagaacactg cacagcgatt 360
tctttcccag gatttcacaa cttttnaagg gaagatnaat gaacatcnna tttctaggta 420
tngaactatg ttattgaaag gaaaaggaac actggtgttt gtttcttaga ctcatgaaan 480
ttaataatta tgaangcaat gaaaaattaa nttgaaacat taaantctnc ntgacantng 540
gaatnattcc tttgccactt tnttgcatta atttcagaan acnattccgt nnnttnttcc 600
antntngcna acccatttnt ncctggatnt tgngccatan ttttgacntc ccggntntna 660
ttcannatnn ccttnncccg gtaatcgnnc antttgggan atctgnnant nttaaaatat 720
gncntttata tatanttaat ttctttcann naaanttctg gnataggcct ggtnatttan 780
antnnnttnt tatttgnngg nanancnntt tatcgtntan aanatttaac cncttnntnt 840
tttctgnngc ccttttcgta taaaaacctt cntntatntt tnnngacaat nttntntttn 900
nnc 903

<210> 4279
<211> 866
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(866)
<223> n = A,T,C or G

<400> 4279
angcnagagc ccacggaatt tncatgcctt tatcgagncn gcncccgcgc ggannnaaac 60
agcnggacnt gccncacgag nggantntgc nctttttttt gggccgncca nntcccacag 120
ncnganggggg ggttaatnnc ngaacgctgn agaatannta ttgatgagca ncngagaagn 180
aacatgnnca tggccaccag gcncgnccac tcacngcaaa agtgaccaag ccagcangtc 240
acccttaact ggcagaaacc aanatcaggg nggnagnccg gacttnaaat gcnnagaaac 300
ctgtnagtga tggaaggnna agaaaaattc agnatggana anaanaatcn gggcacncaa 360
acaaattcac tganaantcc anaagnctat tnanaaacaa gatagcnatg agtncanatc 420
natccnantg gncntntaat nntacaacca anccttaacc ttccactcta aagggaagga 480
atactangaa tggattacnt ttccggggta nnataaancn ggggnantaa atgatnangg 540
gaaancccaa aanctacccn nnantcnang gantntggaa tnccttactc ttcatcaaga 600
ncatttccag nttctaaggg gaccccttta cnaanttnaa aanggattcn annttggcnt 660
ctnaagnggg ntcgcccggc cccnaaaaat natnataatg gaccnggggn tcaaangnan 720
ctnacnggaa aaangaaagc ccggnaaagg accaggcntt tccaaggaan gaagggaaaa 780
tncccncgaa ancccccgga ataaanctca anggggttac acaaaaaagc catccccncg 840
aattaanccc aaaaaattgg gcagcc 866

<210> 4280
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4280
gaancactcn tnatcgnttg caggatccct cgattcgaat tcggcacgag gctgggactg 60

acagcctgca gggtttcctt gggcgcggcc ccaaaattgc cttcaaaaca aacccgggac 120
ggttgaaagc cttcgaaccg tgcangggat gcctcgggcc ctggcccttc gcttcctctc 180
ttgtgttatg gaaataaaaa caaataaaac tacaaaaaaa aaaaaaaaaa aactcgagcc 240
tctagaacta tagtgagtcg tattacgtag atccagacat gataagatac attgatgagt 300
ttggacaaac cacaactaga atgcagtgaa aaaaatgctt tatttgtgaa atttgtgatg 360
ctattgcttt atttgtaacc attataagct gcaataaaca agttaacaac aacaattgca 420
ttcattttat gtttcaggtt caggggggagg tgtgggaggt tttttaattc gcggccgcgg 480
cgccaatgca ttgggcccgg tacccagctt ttgttccctt tagtgagggt taattgcncg 540
cttggcgtaa tcatggcata gctgtttcct gtgtgaaatt gntatccgct cacaatttac 600
acaacatacg agcccgggag cataaagtgt aaaagcctgg ggtgcctaat gaagtgagct 660
aactcacatt aattgcgttg cgcttaattg gccgcttttc caatcgggga aacctgtcna 720
ngccanctgn attaatgaat cggncaaccg 750

<210> 4281
<211> 1094
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1094)
<223> n = A,T,C or G

<400> 4281
cctntnnncn antanantac ananntnntt cacncncant ntaatantnt cctntctanc 60
tctcttanan tttacgcnna catatncncn nnnctnatct tctncanatt ttananatat 120
acctnannct ccatncanna ggtngtnacn nnggataaat nggggngntn gtaangagng 180
ctnatcnaac tactaggttg gaatnaattc ctnccnttnt tctnactnag ntnaatcatc 240
gtacgaggaa aaaacaaagn antancttan gccttngaca aggatatnag cacctaatgt 300
actnntaagc ttaacctggn ggnaancccn natanncgta aantganant annnaatgcc 360
acangtgnag ntntgcatcc cctgaaannc tnanaacaaa tgnntaanga ntatgnctgt 420
cttaantatt ctttcactta nttagttcna ctgcanaccc ccatcctgnn aggggttatt 480
cggnagttaa ggtactttca taagttntaa acanaatgat atntgntatt acgntaacct 540
ttctcttgat gacaatgana aananaagcc agtttccaca gaagactana naannannng 600
ttnggggtgn tcctnctggn ngntatcnnt tnttgccana cttttcccnn cattttaaaa 660
nngtnnaaca nttnggatcn tttcattntn nctttcggta aannttttaa tcntcntnac 720
naattggaan canatatttn ncccaantnn nccttttaaaa atcttttagc caacancttc 780
ttctannnaa antngnaana accctntnnn atactaatga aannntgnct attatnctna 840
cnttgtttaa aanaatcnta ttcttngnga nacccnantt attcnggttt cncccccttt 900
nncttnncna nangcntcnt naantgnnca caatancggt ctaaanctgn gnatncacan 960
nttcacctta cccttacnta ntnantntnc ttgananant aantaggntc ctcttagcct 1020
caaatnaaaa taactttnnn aacntntata nctntgcaaa cntntttncc anncntnaat 1080
atccaatttn cncg 1094

<210> 4282
<211> 1247
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1247)
<223> n = A,T,C or G

<400> 4282
nnggatnncn cgcgtcnncg cnatgtgcna nnaacacnan tgtgtgntgg ngcnctngtn 60

ttttacngnt gatnacnnag atnttnttnc tcccnggnga cgattgnaat cctanacaga 120
ctacttgttg ctntttgcag gtacccatcg attcgaatnc ggcacggagg cnancannnn 180
tngggacnng gnttaantgg cgncgnnnnt nnnnacnana gggnacgnan annnttcnta 240
acaccttnnn angttaatnn actntgcagc nntannnnct ccntaanngn nngtancngn 300
nntnaggntn nnngcagtna cnaantangc tacagnnnac gntnaaatnn ttngnnnnnn 360
naaaantgan ggagncaaat agtgntngnt gnanncgttn aanatnnggn cagatnggtc 420
atnnggnnnn tnnttnatnt ggnaacntan ttngnnantn ntgngtnnag catnngnnag 480
natnntnata tntntaactg ntntgaccaa atncatnaac nnaattactg nanganaanc 540
ngccnntntt ntnnntatng ntancnagan ngtgagggcg nngnagtgan gatgtgtaga 600
annagntnng aagtnatgcn acacgtttat atgtnncntn tatcagngga ananngatnt 660
ntanngnttg acngnnntnn ngctaaagan aanaggnnna gcgaganngn agnnntctgt 720
acagantccc ncnaantgtn ngnccgncga anaatcnata taattcnnta tggttatcnn 780
tgtaggggcg ttcnacacga tnaattatac tnacgattcg tangttnctt acncaatanc 840
gcncgctgnn anannnntcn anntcgcgaa actatagtan cnncgnnagg gnaaagatnc 900
anngngtacg caattaaana cnangcantn nntgnnggan atgtacgtaa ccatantgnn 960
tacntactan nntacatgng ntntatnttn tgncgatgat atcgtanant atatagtncg 1020
antgatntat natnctctac tnatagantt gtatntnnac anaagatnaa tatctacatn 1080
tantancana gatangctgc aaatnactgg ngnacacntc atanataana ccnncaanan 1140
tgcgannnat catnatagag tgactntatt atannaaaaa taaccantnc gtganatnga 1200
nnntnaatnt acgtggttng atgatcgcta cgtanaaccn cngnncn 1247

<210> 4283
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 4283
cctgctgtng ggnanatana ncgtgctcnn tttgtacttc cccgnatgnn ccatcnacnc 60
gacgagccta acgcttgtca actngnggga tcnganttng agantgactt tgtgncatnc 120
ntgantanan ctgtangttn gtgaaancca nactacnnng cctcngnctc atcacctctt 180
acacattccn nanantnncn cagtctnnan aangagncnt ngatnannaa naagagnctn 240
tgnannaaca ggnntnnnaa gcnngnnnnn actnanagcn tgngaantga ncgnnnnctt 300
ggtctgngtc cggtaagaag acancantng cncanngacn ggnnanncgn caggccantn 360
aangnagcnt gcgntnannt tnnatgaagt tgagnatggt naacnnaatn tcnaacngnn 420
ctntgtncnt gnnngnnaca cntgcctgan aancntanan ancnngnant agantncnnn 480
aacncngatc ttatanncac tttggaanaa gcactnatcn cctnacnggg catcctnttt 540
gagancagga canctgttgn ngggacgccc catgacacng gcccagaana ctccgggttn 600
tttgnntttc agcnnnaaan ggcgaagtga tttcctnttn cntncngngn acncatnggc 660
tcatgnnccc cctnaaannt nnttanngnn cntcgntana caccctnnat ngcnaanggc 720
ccaangntnc nanttcgcna ccntttacca tnaaggatat taccnnaacc gtgccctttn 780
gantngccag ncnattggnn ntttnnttgn accatttngg naaaggggca aantntttan 840
ncgtcnc 847

<210> 4284
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)

<223> n = A,T,C or G

<400> 4284
gncntttgan ttcatataca agctacttgt tctttttgca ggatcccatc gattcgctgc 60
agcgtctggn gtttncnttg cagncctcgg aaccagnacc tcngcgtggc ctacagagtt 120
atggcgacaa naggccgtgt gcgtgctgaa tggcgacggc ccagtgcagg gcatgatcna 180
tttncagcng aaagananta atggaccagn naacgtgtgg ggangcattn aaggactgac 240
tgaangcctg catggattcc atgttcatga ntttngagat aatacatgag gctgtaccan 300
tgcaggncct cactttantc ctctatccan aaaacanngt gggccaangg atgaanagag 360
gcntgttgga nacttggnca atgtgactgc tgacaaaaga tggtgtggnc nnatgtgtct 420
attgaagatt ctgtgatctn actctnagna gaccatttgc ntcattggcc cgtacactgt 480
tggtccatga naaaagcaca tgacttgggc aaaggtggaa atgaagaang tacatngaca 540
ggaaacgctg naatgatttg gcttgtngtg taattggnat ccccnaataa acatcccttg 600
gatgaagctt gaggcccttt aattcatttt ttnantccng nnaccttgtt aantggnacn 660
tggaacactt aacccccttnn tttnntaaaa ggagaaannng tnttntnttt nanangagtt 720
ttttaanccc cttggtcgan aaaanttnnt ttttnatttn t 761

<210> 4285
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4285
tnnctaatan nanaatnctn cttnttgntc tntttgcagg atcccatcga ttcganntnc 60
ngangaggag annctgtcgg ncatgtggtg gaancnggnt ncggacntgn catngncntg 120
tgccntgtna actacaggca ctgncnnttt ggaacaactc anggcattca tgcaaggctc 180
atncctgtgg nannaanngg gactaacatt attggtgcgg ctnccnaagc atggtntcnt 240
natggatgna ttctgtccct gtgncnntga tannntatna annnactgaa gatnncnatn 300
aagttaaatn taaagagnat ggcntatnaa cngatcaggt angganntac nntggcaacn 360
cgagacactg tnngtncaag agcgcnntgn ggcntgctca ataactngng ccacaggcna 420
cacnataatn tactctatan atgcnctcaa tacnccggtn acnntnnnna ggacngntca 480
ttattangcn ctcctggact gnaccgnact tgtctctgna cagngatnnn ccncgtncct 540
tanaaagnag ttcctacnaa acntgntang cattatanan gtatgcctgc attngaactg 600
nacgtctntg agactntcaa taacgtggtn canttgnnat tncaagccac ntatttgagn 660
gataacnntg gcgantgatc atncttactn ggcccttaat gttcncannt tgcantnagc 720
tngccntcca ngaaaacctn gttttcccgg ttggganata aaaacnggga ncctggaatg 780
caatggnaaa aanccgntta gaann 805

<210> 4286
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4286
tnnctaatan nanaatnctn cttnttgntc tntttgcagg atcccatcga ttcganntnc 60
ngangaggag annctgtcgg ncatgtggtg gaancnggnt ncggacntgn catngncntg 120

tgccntgtna actacaggca ctgncnnttt ggaacaactc anggcattca tgcaaggctc 180
atncctgtgg nannaanngg gactaacatt attggtgcgg ctnccnaagc atggtntcnt 240
natggatgna ttctgtccct gtgncnntga tannntatna annnactgaa gatnncnatn 300
aagttaaatn taaagagnat ggcntatnaa cngatcaggt anggannntac nntggcaacn 360
cgagacactg tnngtncaag agcgcnntgn ggcntgctca ataactngng ccacaggcna 420
cacnataatn tactctatan atgcnctcaa tacnccggtn acnntnnnna ggacngntca 480
ttattangcn ctcctggact gnaccgnact tgtctctgna cagngatnnn ccncgtncct 540
tanaaagnag ttcctacnaa acntgntang cattatanan gtatgcctgc attngaactg 600
nacgtctntg agactntcaa taacgtggtn canttgnnat tncaagccac ntatttgagn 660
gataacnntg gcgantgatc atncttactn ggcccttaat gttcncannt tgcantnagc 720
tngccntcca ngaaaacctn gttttcccgg ttggganata aaaacnggga ncctggaatg 780
caatggnaaa aanccgntta gaann 805

<210> 4287
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4287
gnccnttttg aattcanata caagctactt gttctttttg caggatccca tcgattcgct 60
gcagcgtctg gggtttccgt tgcagtcctc ggaaccagga cctcggcgtg gcctatcgag 120
ttatggcgac naaggccgtg tgcgtgctga agggcgacgg cccagtgcan ggcatcatca 180
atttcgagca naaggaaagt aatggaccag tgaaggtgtg gggaagcatt aaaggactga 240
ctgaaggcct gcatggattc catgttcatg agtttggaga taatacagca ggctgtacca 300
gtgcangtcc tcactttaat cctctatcca gaaaacacgg tgggccaaag gatgaagaga 360
ggcatgttgg agacttgggc aatgtgactg ctgacaaaga tggtgtggcc gatgtgtcta 420
ttgaagattc tgtgatctca ctctcaggag accattgcat cattggccgc acactggtgg 480
tccatgaaaa agcanatnac ttgtgcanag gtggaaatga agaaagttca aagacaggan 540
acgctggaag tcgnttggct ngaggtgtaa ttgggatcgn ccaatnaaca ttcccttgga 600
tgtagtctga gccccttact catctggtat cctgctagct gcagaaatgt atcctgataa 660
cnttaacact gcatcttaaa agtgtaattg agtgactttt canagtgctt taaagtacct 720
gtagagagaa ctgattatga tcactt 746

<210> 4288
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4288
nnatatnang gnnnctnntt acttgctctn tctgcaggat cccatcgatt cgagaccaac 60
ccgcctgcag gaggctctga acctcttcaa gagcntctgg aacaacagat ggctgcgcac 120
catctctgtg atcctgttcc tcaacaagca agatctgctc gctgagaaag tccttgctgg 180
gaaatcgaag attgaggact actttccaga atttgctcgc tacactactc ctgaggatgc 240
tactcccgag cccggagagg acccacgcgt gacccgggcc aagtacttca ttcgagatga 300
gtttctgagg atcagcactg ccagtggaga tgggcgtcac tactgctacc ctcatttcac 360
ctgcgctgtg gacactgaga acatccgccg tgtgttcaac gactgccgtg acatcattca 420

gcgcatgcac cttcgtcagt acgagctgct ctaagaaggg aacccccaaa tttaattaaa 480
gccttaagca caattaatta aaagtgaaac gtaattgtac aagcagttaa tcacccacca 540
tagggcatga ttaacaaagc aacctttccc ttccccgagt gattttgcga aacccccttt 600
tcccttcagc ttgcttagtg ttccaaattt agaaagctta aggcggccta cagaaaaagg 660
aaaaaaggcc acaaaagtnc cttttacttt cagtaaaaat aaattaaaca gcagcagcaa 720
ccaattaaaa tggaattnan gaaccaatga aataatnttg ng 762

<210> 4289
<211> 1563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1563)
<223> n = A,T,C or G

<400> 4289
gngaannaaa ggaacgaccg gnaaaaangn naccgcggcg nncacngacn gnnaatacnn 60
ngcgacggnn cgtgnaaaag nggngaggcg naagtgggcn naaataaana aaacgcggcg 120
agagcancng nngaactann tngcagaaga gatggtnnan gcacggagng gnccgttttt 180
gaaaaccncc tcggtncaan gccccncgga naaatngtac gcgtgngtaa gaaaggccng 240
nnaccgtgna aantcgtgcc gnntggagcg agcgnagaaa anncaagtgc naagacgacg 300
aantttttgt gncncnagtg ngaanannag gtggcnnacg ngggngggggg ggggntngna 360
gangngaatn gtnagngnan gntaaaanac ncgcgngnng gacacaaaag angganancn 420
natgnggnna gagaantnng gtaancgnng nnaggagaag cgnnngnana ggngnaggta 480
tngnangagc gnancanngg atncgaggga aaagcggngc gagaaacatn nntnacgaca 540
atggngcgag aggaaacgnn gcngcggaan nnnaaannaa ntagagagan acnngnagnt 600
ggnananaaa ngngggngga ggaannggnn nnganggaga tagagncacg gggcgtgana 660
nacaaacaga aagtgacgtg nnatagangn ncgnaacntg nangangngg catannnngg 720
gananagata anntccnaga tagagacgac ggggcgcnta nngnnnnaga ttgncggaca 780
ancgctgatg cgtncnnang ntgagagaaa gcgangncan ctcagggggg ggaagggnng 840
tgtagngagc gnacncaaat ggagaaagaa cggtggaaga caacgacgcg gngnacacac 900
gntngagacg tgggcaaaca nagcncangn tnantngagt gngncgatgt aagtgacntg 960
aaacatacna nctcggnngg agggnataan aanaggaatg ngnggnangc gaaganaagn 1020
ntntncgtaa anaactagan ggncgcanaa nnnggngagg cgaagacgat gannnangan 1080
aaaggnggat cnaacggann nncgnatgcn attntggcnc acngtaatat atggannagc 1140
gaggacatng gcgnnngaga angccggaan gacggaagat agaatgnaan attgngggga 1200
gngnnagnaa tgaacgnnna ngacgngcag gtttgngagn ggagnangaa ggggagggac 1260
gacgagggtn gtagnggagn nggacgagtg ancgcngagt gagatncaag gacgaagana 1320
nacnnnggng anncgtagnt cgcgataacg nnataangag nnanagngga nncanatacc 1380
gaanncnaga nncacgtgnn ganntgcaaa aaaagaancg ggntnggcan gacgatgcgg 1440
nnngagaagg ganaaatnac ncagggaann tgggnngaac nncaatangn gtncnangcg 1500
gaaaaangng ngataaggna anganggata gcnancgggn gacnanngtn ncnagngaag 1560
ccg 1563

<210> 4290
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 4290
gaagtngctc ttgttctttt tgcaggatcc ctcgattcgc tnacgtgtcg ncggggcggt 60
cgcagacttc agggtnctct aacggagagg ccaggcnccg cgtggccnga caactncctg 120
nccgctcctt cagcaagtga ctgtctntnn cactncttac ctgctgaang atctngctca 180
gcngctggaa caatgctgct gtnacacant ctcnnctntg cnacttnagg atgctncttg 240
gtcaccaggn antggganct gtagaccngn cgcatgcact tncncnacat tcactgctga 300
ctggcttanc tgnnatangt tcnagngacc gggacttntc ttanagtcag nagccctcnc 360
aactacntca taccntcgca tctgannatt ttcacagagg nnttntcttn gaagnngact 420
tggcaagnct tacaagttga tnnatngnna ttggnaantn cntttcttca aatgctaaaa 480
ntcatgtcct cataaatgca antgatttta gancacaann tccccatgta cannttccat 540
tanttaaact agaccaatgt gtacgggtca tttgnngtat tgnggaacat cnnngttact 600
ggaaangact attaanattt cacagatggg cttnatcaan ttgctangaa ttgngtctnc 660
taagtgtagt taacttgcag aatccaactt aactncnagn nnaantttca aaactgatnc 720
tgtgaatgga tggggancat cttaactntt ng 752

<210> 4291
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 4291
annnnnnnnn nnnnnngnnn nnnnnngggn nnnnggnnnn gnnnnnnann nnggnnnnnn 60
nngggnnnnn nnnnnnggnn nnggngncng atangnagac ccgttnatac aacgacccac 120
ggancggann cggcacgaga agcngcnagg gccaggngnn aannnnanag gnnnagnngg 180
acncngnnan gaaaaganag gnnaggggng ggcgacaggn nganacagnc nnagaaaaag 240
caggnannag caaagnangg gaaagcnagc gggcangcnc gcnaaccngg ggaacgnccc 300
cnnnaacacn nncnaaacnc gngagccncc nnnaacgaag gaggaggagg agcaaaccnn 360
nnccngggac gganncagna agagggccag cgcccangga naancacaag nanganagcn 420
ggaacnggcn caaanacngc agcaaagnca gcanaganac gcaaaggnac aaagannnng 480
agccaggcan nagncnagac acagnaaggg aacagacaga naggcanncg aggccnggaa 540
ggagcgnaca anccgngngg nnnnaaagcn aaangnanna aacangagcc anncngaggg 600
angacagcca gnannaaaca naaaggccgc acgnacacag cagcgnngcn aagcgggagg 660
agccnaaaan aacanangna cggnnggccc ggcnacagng gccacgncnn cgggggnccn 720
ggcncccaag gggagggccn aaggggggng gnnngaacnn cccgngggga cnanaagngg 780
ggncncncca gnccggggnn aacccgggng ggaaacccca nccncggagn gnaaaaaggg 840
cccaaaannng cccagnagga aangnngcng gggcaaaacn g 881

<210> 4292
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4292
aangnnngng ggnntgnttt nntggntggg ntgttattcn tggcgctctg gctacttgnt 60
nnatttgnat gnatncgggc gntncgannn gntgtnctgn gttnnatctt ntaaatngct 120
tgtccttatt atgttgttgn ttaacanctt aaacgctanc tctagaccag gaataattat 180

ttgctatata ttacagcaaa aaatatgtat gtntaaatgg actcattcaa gaatatataa 240
gngaactcct attacaaaga aattgncaaa cagcccagta tatnaatgaa tataaaaatt 300
tgagaagata ttttncatng naagatntcn aantgaacat tnggcatgnn aaaaccaaat 360
tttaggatat nactacacac tctggnctag tttaaaagac tganaatatt aagtgtgtgg 420
naatgtnnan caantggaaa tggcctgcat ntngcatnga aatgtaaaac antacatata 480
ctntgcaaaa ctctgtccaa cattntctac ccattnacca agcaactnca tcncctagct 540
atanataccc agggaaaata agtanggtat cttcacagaa atnattgtat gaagaaatat 600
tcatagttac ttattgcacn tgtcagttat cangtnaanc tgtctcncat cnggaaaaat 660
gggatatcaa aattggtgtg gataatnaat acaancaatt agggatatta cttggngcna 720
aacaaaaaat gaanacangg ggaaaatnca cattcaaacc aaantangtg gcatattata 780
cccacg 786

<210> 4293
<211> 866
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(866)
<223> n = A,T,C or G

<400> 4293
angcnagagc ccacggaatt tncatgcctt tatcgagncn gcncccgcgc ggannnaaac 60
agcnggacnt gccncacgag nggantntgc nctttttttt gggccgncca nntcccacag 120
ncnganggggg ggttaatnnc ngaacgctgn agaatannta ttgatgagca ncngagaagn 180
aacatgnnca tggccaccag gcncgnccac tcacngcaaa agtgaccaag ccagcangtc 240
acccttaact ggcagaaacc aanatcaggg nggnagnccg gacttnaaat gcnnagaaac 300
ctgtnagtga tggaaggnna agaaaaattc agnatggana anaanaatcn gggcacncaa 360
acaaattcac tganaantcc anaagnctat tnanaaacaa gatagcnatg agtncanatc 420
natccnantg gncntntaat nntacaacca anccttaacc ttccactcta aagggaagga 480
atactangaa tggattacnt ttccggggta nnataaancn ggggnantaa atgatnangg 540
gaaancccaa aanctacccn nnantcnang gantntggaa tnccttactc ttcatcaaga 600
ncatttccag nttctaaggg gaccccttta cnaanttnaa aanggattcn annttggcnt 660
ctnaagnggg ntcgcccggc cccnaaaaat natnataatg gaccnggggn tcaaangnan 720
ctnacnggaa aaangaaagc ccggnaaagg accaggcntt tccaaggaan gaagggaaaa 780
tncccncgaa ancccccgga ataaanctca anggggttac acaaaaaagc catccccncg 840
aattaanccc aaaaaattgg gcagcc 866

<210> 4294
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4294
ggnnnnnnnn cnggnttnnn nnnttgcttc tnagccttng catttgactc ctgcaggatc 60
ccatcgattc gaattcggca cgagctttag ttcagataaa ggaaacatcc aaaaatactg 120
agatgagtaa aattttattc aaagtaggtt cctgctttgt cttgatctca atccattcta 180
actcctgatg tcatttaccg tgtgagatct tagtacaatc atgaaaagaa tatgagcatt 240
tatcaaaact ctctgacatc tgtatgttta gaaatgaact tacacagcaa aatatgattt 300
ccttgcactt atttaatttt tctaacttca atttctacct atgtgtctct gccagtttga 360

cctgattcag acacccagaa cttgaataaa gaagccctct tctattttca ttcttaatga 420
atataccttt tcccatgtcc acattgagcc tcccttctgt gtactctgct aatgcagcca 480
catgtctagt tccccctctc tgcaccaccc tcacttcttc tttcccatct tcttacttct 540
ttggtgtgac ctctctgtag gacaacatgc catttctgat tccccacaca cataccctat 600
cattgatacc taccctcang gattagaatc tggctagtaa tttggaagag cccatcaagg 660
ctttagtaaa gtattggact ggnaagtcaa cacccattat ctcatcaaaa gggatgctgt 720
gttgggggca nanggagaga gagagagaga gaccganaga gagacagacn gagagagaga 780
aaggaat 787

<210> 4295
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4295
ggnttnnnnt nntgccttan aagccttgcn tangatgccn ttnggatccc atcgattcga 60
attcggcacg agggaaccat gagaaccgaa gctagaattg ctattgaatt actttatttt 120
ctcttccctt attgggtaga gatacatcat tactggcctc aggggtttac ccaaagaaag 180
ggtatttttg agcaaataat gtgatttcct ggctattttg ttgggggctt aagatttttt 240
tttttcaaat gcatttttag tcactaaaaa ttaactgtcg taccatctag aactatactg 300
tccagtacca tagcctctag ccgtatgtan gctatttgta ttaagattaa ttgaaatttt 360
aaatccagtt cctcagtcac actagccact ttctaagtgc tcagtagctc tgtgtgacca 420
gcggctactg tattggatat tatagaaggt tctttcattc aagatcatca ttcttgacag 480
acccataaat atttcctata aagactgtag aagtgtgttc tggagggttt gctctccaaa 540
aagaattgta atatagagta gaattgggat agagtattga anacactggg tttagacatt 600
ggatatttta aatgattgng gtgttcaatt catgtgctgc ccaactggag ttatctagtg 660
gatattgacc ctcactggct tgaccaaaag cccggaatag aaaggcaggg aattcctgaa 720
attctaatct taaaaatttg gcaatggaaa aagccctttt nccctaaaat tantcccatt 780
nttgtaaatt ccttg 795

<210> 4296
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 4296
taagttgctc tgttcttttt gcaggatccc tcgattcgaa ttcggcacga gactggagtt 60
aaggaggtag atgacttctt tgagcaagag aagaacttcc ttattaacta ttacaatagg 120
atcaaagatt cttgtgtgaa agctgacaaa atgaccagat ctcataaaaa tgttgccgat 180
gactatatcc acaccgcagc ctgcttacat agcctggctt tagaagagcc cacagtcatc 240
aaaaagtacc tattgaaggt tgctgagcta tttgaaaaac taaggaaagt agagggtcga 300
gtttcatcag atgaagattt gaagctaaca gagctcctcc gatactacat gctcaacatt 360
gaagctgcta aggatctctt atacagacgc accaaagccc tcattgacta tgagaactca 420
aacaaagctc tggataaggc ccggttaaag agcanagacg tcaagttggc tgangcacac 480
cagcangagt gctgccagaa atttgaacaa ctttccgaat ctgcaaanga agaactgatn 540
aatttcaaac ggaaganagt ggcagcattt anaaagaatc taattgaaat gtctgaactg 600

gaaataaaac atgccangaa caatgtctcc cttttgcaga ctgtattgac ttgttcaaga 660
atactgatat gccttcctca gaagaaaaga aatgaatgtg aaagaaagcc agcctcactg 720
ccttaaatca ttacccggaa 740

<210> 4297
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 4297
cccgcatata aanananacc cngngnacna annacacacc cannaanana taatanngcn 60
ataagnnnac angggggaac aggggantan ggncgaatga ngacnncaat tnacaggnat 120
ttaattccaa nncnntnana ctacngnccc nnanatcnna cgagnatnca ncccaagnag 180
nancngacan tcagangagc gtnntacaan nacngcaann acnngaccag ncnggancga 240
taangggggn caaancanna nttccangga tcangcatag tacnaccnct gaatnggtac 300
cattncnact ttacncnnga cnaacaagta tccctgntgg cctnaaaatn caagttgaaa 360
atnaantcng aantctncca gancaaanan gacatncann ccnatnnntt anantacnaa 420
ntatcnaatg ntanaaatcc atggnnaaga cataaaaact nncagctata naaananctn 480
ntaaanggct attnggatnt aaaaaccana tnatnnnacc ntncaacnac ctannnntna 540
agaaancann tnnncaanaa ntacnancca atnnncagan ggacgnnaaa tgnnnacant 600
cangaaattg aaaccngana agncccnatn naangnntta aaaacntcag cggcaaatcc 660
cncatnccac naanggnntn ncggaaaang gnnnntaact ggntaacncc natantntaa 720
aacgggaacc atcgccaatg cgtncgctan ccaacanann taaancgatc nacannacca 780
cagnnncnta ttnaagaatc tnganannca cacttacnna ttcaaatagg ngncntnnnn 840
tgnatatnta ncnnatnngc cacatctnat ntatcaccnc annctcanng ntcnnacanc 900
atggagagca tntcgngana caancgngtg annancacat cncancanng cgaaacncca 960
natatntacn tgggtantca ncgcgnaact gcgcgcgcgn agnatnagat cacattatnt 1020
gatactacag ctaaannngac acacattaca nngtntntac anaaatactn tacnntcnan 1080
acncnntaca cacaaaaatt acctcanagg gaganannta catatctnaa aacanccccn 1140
anantnancn naaaagactc cntacgcgna nanagtgcgc tctcgnaann g 1191

<210> 4298
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4298
ntncgtttnn ntanaacntt gntctttnan tctgcaggat ccctcgattc gctaacaagc 60
gattctaaac cacctatgag tatttctttt agggctcact taaatacatg tttgtatata 120
ctgtattcta gccagaataa ttttagatct gatcaggtag tagctaaaat tagaaaaaaa 180
caaaatagat gcttaaagaa tttgcatcca tttttgagtc taaatctttt aaaatatact 240
gagatccaca tctagtgaaa tgtcagtgtc aaaatattat agattatagc taaaatccag 300
attaatactc atttggggtt ttttatagtg gaacttcata gtaatacaaa aagcagattg 360
tcttcctgtc tccgctgctc ccacagtagg tattgaaact ggtaaaatca gttttttgat 420
agtgtgtgta tataagaaaa aatagataca cacattcttt tttctcagtc aacacattga 480
ttgaacactc tggcaaagat gctgtggtgg atgaggttgg agttcgaaag aagaagcaag 540

cgctggcctg ccttgaaaga accgaagtct ttcccattca cttctctaga aagctgccaa 600
ggacagaggc agaaagaatg gatgaaantt ctgtcaagca cacttctggt ctcttaaaac 660
ttagaagtgg ttctaanaga acagaagtat tagagaaaca gttcctgtgg aatcacatct 720
ttgggtggna cccattgctt tttttctggt tga 753

<210> 4299
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4299
ntncgtttnn ntanaacntt gntctttnan tctgcaggat ccctcgattc gctaacaagc 60
gattctaaac cacctatgag tatttctttt agggctcact taaatacatg tttgtatata 120
ctgtattcta gccagaataa ttttagatct gatcaggtag tagctaaaat tagaaaaaaa 180
caaaatagat gcttaaagaa tttgcatcca tttttgagtc taaatctttt aaaatatact 240
gagatccaca tctagtgaaa tgtcagtgtc aaaatattat agattatagc taaaatccag 300
attaatactc atttggggtt ttttatagtg gaacttcata gtaatacaaa aagcagattg 360
tcttcctgtc tccgctgctc ccacagtagg tattgaaact ggtaaaatca gttttttgat 420
agtgtgtgta tataagaaaa aatagataca cacattcttt tttctcagtc aacacattga 480
ttgaacactc tggcaaagat gctgtggtgg atgaggttgg agttcgaaag aagaagcaag 540
cgctggcctg ccttgaaaga accgaagtct ttcccattca cttctctaga aagctgccaa 600
ggacagaggc agaaagaatg gatgaaantt ctgtcaagca cacttctggt ctcttaaaac 660
ttagaagtgg ttctaanaga acagaagtat tagagaaaca gttcctgtgg aatcacatct 720
ttgggtggna cccattgctt tttttctggt tga 753

<210> 4300
<211> 850
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(850)
<223> n = A,T,C or G

<400> 4300
gctnntgacc annntanngn tnggaatcnc antcgctnna tngcncntng attcgaattc 60
ggcacntgnn gtctnnctgn tctgtgttgg caagggttag ttnccaagtg agcaagatng 120
ttccctncta acaggctccg acgggtgaac agtntgngtg ntatccatac ncaggcacat 180
gccatcggct tacagcangg tcctcaactg gtgcctgctg gccctggggg angaggcaaa 240
gctgtggctc ccagcaaagc agancaaaaa gagttcgccc atggatcgaa cantgacnag 300
tatcngcnac gccgagagag gaacatcatg gctgngaaaa agagccggtt gaaaagcaag 360
cangaaagct caagacacac tgcaagagtc aatcagctca naagaagata atgaacggtt 420
ggaagcaaaa atcaaattgc ntgaccaagg aattaaatgt nctcaaanga tttgnttctt 480
gagcatgcac acaatcttgc agacaacgtn cagtccatta ncacttgaaa aatttcgaca 540
agcagatggg ngncaatggc acggaccant tgacccttaa ccccttttcc aagactttta 600
naagcttgna ggctttggaa tggctaaaan ggtggtggac cccccggnaa cctcnntcat 660
tgtcancngg gcntnaaaaa ntttggccca tttntcccnt tgaacttcan nagnacccca 720
tttggtaggc ctatttttcc tgggggannn aaatccctnc aataanttnt nnnttnnncn 780
ttaaaanngn ttnnccnttn ngnattccgn attatccngg gnttttaaaa nggatnanan 840
ggnttttttct 850

<210> 4301
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(790)
<223> n = A,T,C or G

<400> 4301
cnatcatctt tgnttctata ctcagcttgc ntgtanagna ngtccgggtt accgnncncc 60
anngtaccct atanngantn gtantacaaa gagactnann gcnnttnaan ggccgcgtta 120
ctacananna cnnantngtn acncnctngn atcaccnanc ttaatctcct tgtancacat 180
ncctnctttt gccagctngc ntgatngcga agaggnccct accnatcgcn cttncaaaca 240
gatgnggcaa actgaatggc aaatggacnc gccctgaacc cncgcatnaa gcgctgttgc 300
tgtgcaggtt acccgcncag tnacccanta cacttnccan cgccctagcn ccctttcctt 360
cctttctttt tcnttacgta cnccnnatnt gcgnnggatn ntnnnantaa gctntnaatt 420
ttaggcttcc natacngtnc ntaantagng ctttaccgca cntngatcnn tnaaaantng 480
nntanggtna ngggtcanat accgtgccat acccttgtag accnttnntt nccnttgaac 540
gtngaagtan atcgttcntt aataatncac tcttggancc aaactggaac cananctcga 600
cccaatctnc nggntatntn ttnggattta taaagngatt antgcccttt gtnnnaacta 660
ttggggcttg anatntgncc aanattttaa cgatgaaatt ttaaaccgcg aaattttaac 720
ncaaaaaatt ttaccgcttt ancaatgtta tttggaatgc ctntaaaccc cctttntann 780
tcnctccccc 790

<210> 4302
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4302
catatatctt tgattccntt naacccttnc naactacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag ccaacgatct gtatcaacca cgtcttcatt ttccttttcc 120
tgtttgnctt actctccccc caaaaagagt cagtttcctg ttttctcaat ttctcagttt 180
aaaattagag ccctatggca ggtgccatgt acagctgcaa aggtggcaag aagccctgag 240
aaagctcaag aacaggtcaa gggggtgggt aaggaagatg ggacgttcaa gcagaaacaa 300
aaagaggagc taaaagtgaa agccaccccg ccaccagccc tcaccagtca caggtggaat 360
taaagaaatc tggcaaaaaa taaattttgt tatccgtgct tggggcggtg acccttgacc 420
ccattcctat ttaaacatct ggattctctg ccataacatc ttttgccacc tatagctaca 480
ataaagtgtc gtcttggagt ctgttgtaca tttaacaata aacttttttgt naggaaagta 540
aaaaanantc tacagttcaa tgcaggatan ggatgggtgg gccttaattc aggaggtggg 600
aggctcaaaa tcaattactc tgtttganga gatggaatct nctggaatct caaaaangga 660
tttnctttta ngaatcatca agactcatcc cgacttcgtc aagtcttttc tcttgttggg 720
agttatggtt ttggntttta attttngttt tggttttttt ttttgggggg ggnaa 775

<210> 4303
<211> 940
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(940)
<223> n = A,T,C or G

<400> 4303
gtttcataca agctaactng gttttttta aaagccccgt ttccccaatc ggnatttgng 60
gtgcnactgc ggggagggag ancccntacc ngangnaccc naattgcggg ccacgggagg 120
gcgtanacac ttttnacngn gtanatggcc ggagnnggng nttttancca nattttantt 180
nntgggcncc ccgngtgctc tggtcagncc tttaagtggt tnaanangca cgngcctanc 240
ccctaantta aaatncccca gnanaanact nttgcgcnat naacatcact gannggtgtt 300
tctnatagta tgntntacac ctatnacant ttccctcaat antnattacc tgtagngcaa 360
gtggncanac ttnanngcag agtnaactnc anggngtttc tnaatnggnn natntcggac 420
ngtctngtan anttgacaac gnaaatatat gacgncnatn ggaaaatnat tgtngntatg 480
caaggcnttg cggngtccan cntantnctn atgttgaaaa tncganttat aactnntatg 540
angctgcttg ttnnatttga naancntttc ctaanntctt tganncgcna attaaanann 600
tngttnntga natnganagc ntaacacccg ctacaanatc tagnttgnac tnaatgntga 660
aaactccgaa cctctgngaa attcatgttt nattttgatg aacngggcct ccaatntnnt 720
attcggnttt ntannnggac gnnacctgtt gatanngctt ttttcttttn cntntnanng 780
aanaatnaac ctanntaact caaangcnct anttgatctc antaaaannc ngantgnaan 840
tncncattga ntttnaaagc gggntttant ttaaaanaac ntccctttg ggnctgtggg 900
tngttgncna cncnanangg tgnaaaattt tttttttncg 940

<210> 4304
<211> 881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(881)
<223> n = A,T,C or G

<400> 4304
annnnnnnnn nnnnnngnnn nnnnnngggn nnnnggnnnn gnnnnnnann nnggnnnnnn 60
nngggnnnnn nnnnnnggnn nnggngncng atangnagac ccgttnatac aacgacccac 120
ggancggann cggcacgaga agcngcnagg gccaggngnn aannnnanag gnnnagnngg 180
acncngnnan gaaaaganag gnnaggggng ggcgacaggn nganacagnc nnagaaaaag 240
caggnannag caaagnangg gaaagcnagc gggcangcnc gcnaaccngg ggaacgnccc 300
cnnnaacacn nncnaaacnc gngagccncc nnnaacgaag gaggaggagg agcaaaccnn 360
nnccngggac gganncagna agagggccag cgcccangga naancacaag nanganagcn 420
ggaacnggcn caaanacngc agcaaagnca gcanaganac gcaaaggnac aaagannnng 480
agccaggcan nagncnagac acagnaaggg aacagacaga naggcanncg aggccnggaa 540
ggagcgnaca anccgngngg nnnnaaagcn aaangnanna aacangagcc annengaggg 600
angacagcca gnannaaaca naaaggccgc acgnacacag cagcgnngcn aagcgggagg 660
agccnaaaan aacanangna cggnnggccc ggcnacagng gccacgncnn cgggggnccn 720
ggcncccaag gggagggccn aaggggggngg gnnngaacnn cccgngggga cnanaagngg 780
ggncncncca gnccggggnn aacccgggng ggaaacccca nccncggagn gnaaaaaggg 840
cccaaaanng cccagnagga aangnngcng gggcaaaacn g 881

<210> 4305
<211> 891
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(891)
<223> n = A,T,C or G

<400> 4305
annatccttc tgangttngt ctngctcttt ctgcaggatc cctcgattcg tnagtgtctg 60
nntgncaggn ccctcaaaga ttcctnggnc ttttcccatg tgnttgaaga agaantcnat 120
ngncnntcat tgaatcaaac tggaaaacct gctggcntgc tgctgacgac tctgnggcta 180
ncaaggtnct anactcnnaa aacatgangg tngtnaganc ctcnncgaga catnccaata 240
tctgctcctc agtggctttg cngnctcaga ggcctcanag cctgctgtca tgtggacctg 300
gatatgcagg tgatgctgng gactcttcaa aaagcccnac cactctgnga ttacgaatnt 360
acangacaga tganacacga acatgatgna aagcccacca tnaccnntan agcncttaaa 420
ccctgnccta gnncattcna tcnanggggn ttcntntngc tatattggta gttgcnnngc 480
ngacnatggt aaanggacna atnattcggg tgatgggact gnantgtgan cnggnnctng 540
naattanggg gccanncttc taggggngtc ccnncncntg cctntcnntc canaaatgcn 600
tanacgctgc ttntacctgg gaagngnatg gatgngnaaa gaaacnccnt nnnttggngn 660
ctttgccaca cnncnngggn aaacttttga gncannaaaa nacccncnta taaccanntt 720
tnccntccnc taaaaacttg ttacncncaa cntatnggca ataggnaaaa acccctttac 780
agggnaccgn aaaaccttg gcaacnccan aanntntgnc gttnggggaa aaaantacct 840
ttggcccgnt ttttttacag nttngacnca aaaantttaa agggaaancc c 891

<210> 4306
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4306
ntcnnnctttt aancccntat ccttctcnaa acctttggaa cgcncnctnt ctncaggaan 60
cctcgctnna gatnctcacc tcttnnnggt ctngnntngt ctgcctacat tcccacagca 120
gacaaggttg anaatccatn gctgnaatct tggtattgat gagttncagt gatggaacat 180
gtgcttggcc acaggcaggt ccagtcactg caaaagtgac caanccanca ggtcaccctt 240
aacttcagaa acaattattg gtggtgaact gtacttaaat tgcagagaaa cctgtaagta 300
atggaaggtn aanaaaaatt acanaatgga aaatnatatt ttgggcaagc aaacanattc 360
actgagaatt ccaaaagtat attaaaaaag aagatagcta tgagttcaga tctatcttat 420
tggtctttaa tattacaacc aatccttaac tttccactat aaangaagga ttactanatt 480
gattactttc tgggtagata atctggtaat aaatgatagg gaaatcaaaa attactttta 540
tttaggagtt ngaattctta ctctcatcag acatttttt tctangggac ncttactaat 600
taaatgaatt taaagttgtt ccttanggng tcnttngccc ntantatatt tatnactgng 660
ttaatganta ntggaattnt gccggaanga cagnttcang aagaggaant cncgaancct 720
gataatctat gggttagaaa gcntccctgn atatcnaaaa ttgccanttt 770

<210> 4307
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 4307
ggngggnttt ttnatatana cangctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga gggccctcat ctccagctaa ctgtggagaa gcccctgggg gctccctgat 120
taatggaggc ttagctttct ggatggcatc tagccagagg ctggagacag gtgtgccccc 180
ggtggtcaca ggctgtgcct tggtttcctg agccaccttt actctgctct atgccaggct 240
gtgctagcaa cacccaaagg tggcctgcgg ggagccatca cctaggactg actcggcagt 300
gtgcagtggt gcatgcactg tctcagccaa cccgctccac tacccggcag ggtacacatt 360
cgcaccccta cttnacagag gaagaaacct ggaaccagag ggggcgtgcc tgccaagctc 420
acacagcang aactgagcca gaaacgcaga ttgggctggc tctgaagcca agcctcttct 480
tacttcaccc ggctgggctc ctcattttta cgggtaacag tgaagcttgg gaaggggaac 540
acagaccang aaagctcggt gagtgatggc aagaacgatg cctgcaggca ttggaacttt 600
ttccgttatc acccaggcct gattcactgg cctggccgga anatcttcta aggcatggtc 660
gggggaaaag ggccaacaaa ctgtccttct ttgagcacca anccnnaccc aancaagcag 720
acnttttttt tt 732

<210> 4308
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4308
gnnccagctc ttgttctttt tgcaggatcc ctcgattcgc tgtattcaaa cttatgagag 60
tataaaggat ctggaggttg gggatatgac tgacaaggaa aggctgtggc cacctgatga 120
ccctttccct ttttattaaa ccggacacac ctgtttccca tttcgctgta gtttagtttt 180
tggtttgttg tggttggaac tgctttgaga atcctgggat ttgtgctgct gctgttattc 240
aaagatcaaa ggagtaaaac atagttgctc ctaacttttt tccagcagca gcaagtggta 300
ataaacatga aaactggttt gtagcagttt tgaaagaata gaatgcattc aaatgtaagg 360
ctgcttctgg atcattaaag ccagtttcat caaacagttc aacagagagc agcacttaat 420
acccttttata cagcccattt tttcatagtt tcatttgttc ttgcccacaa gcttgaaatc 480
caggttaagg tatccagcct ttatcatata agcattgaca ttatccaggc ctagtcagta 540
gcagtagggt aacgggattg aaaaagattt gatggagagg aaagtatcta atattagtca 600
tgggtttgac ctaaattgct agacagtcgt gccattcaca aagtcagaaa atncagcagg 660
aagagacgct tttananggg cagagaatta gaggatggtg gtagtaatga aaatgatgc 719

<210> 4309
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4309
gggttnannt tcnaanngct gggctangcg ctttctgcag gancccatcg atncgttcgg 60
cacgaggtga cagagagcag ttgaaatggt tttttagttc ctatggaaaa gttgaagggt 120
tttggtctaa ggaccagnca cagtggaaga atgcatctga gaatgatgag cgcttatcta 180
acccccagat tgagtggcag aatagcacaa ttgacagtga ggatggggaa cagtttgaca 240
acatgactga tggagtagct gagcccatgc atggcagctt agccggagtt aaactgagca 300
gccaacaggc ctaagtgcca ggtnccctgg cgttggtgac atgctgcagc ctggaactct 360

gatatccagt gtgactgcaa agctgtcttc tcactggtac tgccttgtga gtactggttg 420
gactgtgggg catgtggccg ctgcagatcc agtggttatt nctaagncta tgacaggaca 480
ggctganctt gcntcanaac cttctctgac agacacggga actaaatgtg aaaaaccaat 540
aanctggaga ctcatgaatt cacacgagga aaagcagagg nttattnatc tgnctttca 600
acatttnttt cctctgngaa angaanggtc anaggctttg naaaagtggt aaaactaatc 660
acatgggaag tgtaagggcc ancatccaag ctaccaantc ctaaangngn caaancanac 720
ctttngggaa aaaccnaatt ttnnaagccc gggntnnnnn 760

<210> 4310
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 4310
ttnnaatngt nncttccctt tcctaatngc ttggcgtttt tttccattta aaagtatttt 60
atttttttcc agtcaaatga ctagttaaca agaaagagta aacttattaa acatgctcta 120
attataaatc actgcattaa ggacaatgaa aataatcaat ttcggttata caatatatac 180
agttgtgctg caaccaaagt aatcaggtga atgaactgaa tatcatacat ctcaaaatag 240
catcctaagc tgcatattat gttatccacc ccttaacaga tcacacagtt actcttagtc 300
tgtgtacatg ttctgagcca tcatcccaga tctgatggag aatggcatgc aaaatgccag 360
aatcctgcag ctgcagttca tgaaacataa actttaaata taaatagata tctacaatgt 420
ttttctttct cttagttgct tttttaattt gcaaggagca aataactaag aaaggatatt 480
agcagggtcg ttaatataat tctcctctgg taagagtact attagttact gcacaatagc 540
acccaaattg gtagactgga aaaatattcc tanggtattt atgtcccagt ggaacctgac 600
cggattaagt tttggggact gggagttcta aatggttgga tattgaaatc aacctttaat 660
tcccttaata ntaagcctng gcaacccaag gtngggtcca aaaagggcnt ggacctatta 720
aaaaattcca ggattgncca gggaagggat ttgggttaaa aaaattggan ccnttaaggt 780
ggccaccttg gtggccaaaa aattnccat 809

<210> 4311
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(865)
<223> n = A,T,C or G

<400> 4311
ggaaannttt tcctaanacc tggacaagaa ncagnaaaaa cgngnctngg aaacttcctc 60
ttncncncag cannncnaca ttgggnctgg gcacgaggtt agagtaagta anagatntng 120
ccnatttttg cacttaaanc caagaaagag agtcancaaa tatttatacc attctctcat 180
taagtgacac tggttccata aatttaaaga cagcgggtca cccatatcta tggnnttgca 240
ttncatgggt tcagttacca cagtcagcct ctgtctgaaa atattacaat ggaaaattcc 300
agaaataaac aattcataag ntttaagttg catgccgatc tgagnagcct gaatgaaaat 360
cttacancat ccccctncaa ncaggctagg ncatgacatn ancccccttgt ccagccataa 420
tccaacactg gttatggcta cccaccccan taggnaacat antagccaaa cnngggtatt 480
caganccgan cnggncntgg gnaanccata anatgnctcg gagnnccaag ggnacccctn 540
aaannntacc cttaaaatag nggancccc aaaatggcca nngaaatggg ccaaaannngg 600
gaaanaaacc gggcccnaan ncnaacaaan tanngntaaa cgggnncatn aaagnccccc 660

tnnaccagng gcccaaaaan nactgnaant aaaaatccca ntnaaagggg cnanataaat 720
tnnanggnaa aaaaacnagg gngggaccnn agggncaggg gcccaaaaag ngggnctnna 780
canaaaccan cngggangcn ntaaaaanct atnancccgn gggnaaaagg ngngaanccc 840
cggaaannnc aaaannntncc cttgg 865

<210> 4312
<211> 940
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(940)
<223> n = A,T,C or G

<400> 4312
ttcnctttcc cncctcctng gaaacccttc ctttcctaat gttcctaatt cctcnnnnnc 60
tcnctctcnc tctttctctg ccggtcnggg nncngtnncn tnttgccttt ttctcccgnt 120
tttnncnctn gccnctacnt nnccngntga ggnagnccac ctgcggagac cgctgntnnc 180
ncncannccg ctngntgntt cntgnccgnn tggctcanct ccancgcctg ntcccccctn 240
nngtgncgcc nngggntcng tngatcccnc gatngccntt anggcttata cgaatgnnca 300
tgccttccgc acccnnncat tnannnccgn gcctctgctc cctcctnacc tnctgcngac 360
tgnctgcacc tccctgcctc tntgccnccc nnntcgcccn ggctcccacc ccnngntgnt 420
tgccgntgct tncncntgtn tcnnggaacg gcnntgnncc cttnnccccc gnntcncngc 480
tcctggccnc ctnnccentt gnctgnttcn ncccccctnc tnnntngnnn ctnncncccc 540
tcnnncntcc ncnncctcnc nnnntccccc nnncnctccc nncnctnncn ctcncnnntc 600
cnnncccccc cncncccncn nncccttncc tccnctnctc tccncncccc tccncnctnc 660
ccntncctcc cnctctncnc nnncnncnnc nnnnnnncnc ncccncnnnc tccncncnnc 720
ctccnncncn nnccntncnt nnnncncnnt ncttncncnn ntnnntccnn ccncccccncn 780
nntncnnncn ncntnnncnc ctcncnnctc tnntccnncn nnctctcntc cnnnnnnnct 840
cnnnccctct nnncntcncn cntcnccncn nncncccctn ncnncnnnnt cnnnncnccc 900
cnncccncnc nnntncnncc tcncncncnn nnttnntncc 940

<210> 4313
<211> 1051
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1051)
<223> n = A,T,C or G

<400> 4313
cannnccncc nnaacnnnna tntcatcnan ncacnannna ancennenta cnaanatnct 60
ncgnacaacn agngannnct tccccccctt nnaacccgcc cttatgcnga acccacgatt 120
cgaattcggc acgagcccat cgtgcgctgc cccacggttc ggtaccacac gaaggtgcgc 180
gccggccgcg gcttcagcct ggaggagctc agggtggccg gcattcacaa gaaggtggcc 240
cggaccatcg gcatttctgc ggatcccnag gaggcggaac aagtccacgg agtccctgca 300
ngccaacgtg cancggctga aggagtaccg ctccaaaact cannctnatc cccnaggaaa 360
gccatcggac cccaagaagg ggagacagtt ctcgctgnan aacnggaaac ttggacacca 420
anctnaccen naccggcaat ncccncnccg gaaantctna aancgaaann ancaacgnnc 480
atacacaaac acnnannnan cnngnncana ncnnccncnn cnnatnnttn naacntcnnc 540
antcntncnn nntnccnctc nacccnanac tannntnnna ntnctatcac anannnagnc 600
cnnnnntcaa caannaccnn nancannnna annencnant cnnnnntanc atncannntn 660
cnctcaacat nacatannan tanntccnaa nnnctaatnt anngcncnac nnccatctac 720

ncntnttntn aantgcctan aaancacnnc cncncaacta anntcnacat anacgcanna 780
natatatcga acaaancata acgncacnna naananattn cnngngnaac tacctannat 840
antanaaaca ccnannacca accanactcg nccacnngcn ctcnctncnn nnngcgntcn 900
cncacacgtc ngcnanccac tntcttnccn nnccnncgct natcncccgc tccatnatan 960
naccacaacn nnntcataac annntcgccn anancgacac ctnatctcgn cncgnganag 1020
annactctaa gncacanata tntgttnacc c 1051

<210> 4314
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4314
gatgctggnt ncnnatgctt gnngatccct cgattcgaat tcggcacgag gaaatgtgta 60
tttcagtgac aatttcgtgg tctttttaga ggtatattcc aaaatttcct tgtattttta 120
ggttatgcaa ctaataaaaa ctaccttaca ttaattaatt acagttttct acacatggta 180
atacaggata tgctactgat ttaggaagtt tttaagttca tggtattctc ttgattccaa 240
caaagtttga ttttctcttg tattacattt tttatttttc aaattggatg ataatttctt 300
ggaaacattt tttatgtttt agtaaacagt attttttgn tgtttcaaac tgaagtttac 360
tgagagatcc atcaaattga acaatctgtt gtaatttaaa attttggcca ctttttcag 420
attttacatc attcttgctg aacttcaact tgaaattgtn ttttnttttc tttttggatg 480
tgaaggtgaa cattcctgat ttttgctgat gtgaaaaagc cttggtattt tacattttga 540
aaattcaaag aagcttaata taaaaggttg cattctctca ggaaaaagcc atcttcttgn 600
atatgtcnta aatgtatttt tgncctcata taccggaaag ttcttaattg gattttacca 660
gctgnaatgc tttganggtt ttaaaaataa taacattttt aataattttt taaaaggaca 720
aactttcata atnatcccgg ngntcctttn ccnnn 755

<210> 4315
<211> 811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

<400> 4315
tnnnaatcnc nnnaagcctt tgttnaaccc ctttgctact ngcnctttt gcaggatccc 60
atcgcttcna attcggcacg aggttatncc agtatctgnc ancagaatgg cattgtgccc 120
atcgtggagc ctgagatcct ccctgatggg gaccatgact tgaagcgctg ncagtatgtg 180
accgataaag gtgctggctg ctgtctacan ggctctgagt gaccaccaca tctacctgna 240
aggcaccttg ctgaagccca acatggtnac cccaggccat gcttgcactc anaagttttc 300
tcatgangag attgccatgg cgaccgtcac ancgctgcnc cgcacagngc cccccgctgt 360
cactgggatc accttcctgt ctggaggcca nactgacgag gangcttaca tcaacctaaa 420
tgccattaac aagtgcccnn tgctgaancc ntgnnccctg accttcttct actgncgagc 480
nctgcangcc tctgcnctga acgcctgngg cggnaataag gagaacctga agctgctcac 540
gaagaatntg tcaagcgaac cctgncnaac agccntgcct ggcaaggaaa gtncacttnc 600
gagccggtta ggctagggct tgctgcaacc gaagtcccct ctttggtntt ctaaccatcg 660
cctttttaa nncggaaggg tgtttcccca aggattgccc cccaanaact tnnaagncct 720
ttggccccaa tttccnantt tttgaaanaa ggnaggnccg ccntncttta nngggcttcc 780

aaaccttggg cttaganccc nggctttttt t 811

<210> 4316
<211> 942
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(942)
<223> n = A,T,C or G

<400> 4316
gnagcgtnnn cctttggaac ccnttgctac ttgctctttt tgcagggatc ccatcgattc 60
gaatncggcg cgngnctggn cntaggcgtn gnnnatncca aggccatatn acatnngatn 120
ntncanaaga gncatataat cnagnnngta aattcacatt gtgctgctca catggatnga 180
acatacaaat tgatggttat aaacctggat gctcaccatg actccaaagn nctnggtgnt 240
aaccatggnt atagnggnag ntcnnanngg actnnatatg gataccgagg ctctccagaa 300
caagctccan gaantgatca ctgngctanc ngnggctatg acagctgtaa ngcncgaaca 360
ggaatacntg gaagtccggg tnanaataca ctnagccatc ancgactgca catacagcat 420
agtggtnctt gtggtccttc ttngaatctc tngttctagn caccatgaca ttgngacaga 480
tntactactt gaagagattt ttnnaagtcc ccagagntgc ttaganaaag tcnactnctg 540
angatccnac ctnaagaatt naatgntnac caaacaccnt gntcntaata atggnccata 600
gttttctcgc atgntttatg gttctnggac ttgtaccatt tcacatcgta atggtgnnca 660
nttngagaat taatcncatt aattgggggn gggaaanaac ggccttttt anggcnaaat 720
tnaattaggc cnaaaaattt ttcccagttt aatttgggnc nttaaaccct tngtntttna 780
aancttgncc tnccattnnt gttanagttc cntntcaaaa tactttanac cctctttnnt 840
caanttnnan nattttnngn anttancnnc atnccaanca attnnttnnc nttncnnntt 900
nacnnttttc ccntggantt ntcctgcacn tcancntncn ct 942

<210> 4317
<211> 891
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(891)
<223> n = A,T,C or G

<400> 4317
annatccttc tgangttngt ctngctcttt ctgcaggatc cctcgattcg tnagtgtctg 60
nntgncaggn ccctcaaaga ttcctnggnc ttttcccatg tgnttgaaga agaantcnat 120
ngncnntcat tgaatcaaac tggaaaacct gctggcntgc tgctgacgac tctgnggcta 180
ncaaggtnct anactcnnaa aacatgangg tngtnaganc ctcnncgaga catnccaata 240
tctgctcctc agtggctttg cngnctcaga ggcctcanag cctgctgtca tgtggacctg 300
gatatgcagg tgatgctgng gactcttcaa aaagcccnac cactctgnga ttacgaatnt 360
acangacaga tganacacga acatgatgna aagcccacca tnaccnntan agcncttaaa 420
ccctgnccta gnncattcna tcnanggggn ttcntntngc tatattggta gttgcnnngc 480
ngacnatggt aaanggacna atnattcggg tgatgggact gnantgtgan cnggnnctng 540
naattanggg gccanncttc taggggngtc ccnncncntg cctntcnntc canaaatgcn 600
tanacgctgc ttntacctgg gaagngnatg gatgngnaaa gaaacnccnt nnnttggngn 660
ctttgccaca cnncnngggn aaacttttga gncannaaaa nacccncnta taaccanntt 720
tnccntccnc taaaaacttg ttacncncaa cntatnggca ataggnaaaa acccctttac 780
agggnaccgn aaaaccttg gcaacnccan aanntntgnc gttnggggaa aaaantacct 840
ttggcccgnt ttttttacag nttngacnca aaaantttaa agggaaancc c 891

<210> 4318
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4318
ntcnnnncttt aancccntat ccttctcnaa acctttggaa cgcncnctnt ctncaggaan 60
cctcgctnna gatnctcacc tcttnnnggt ctngnntngt ctgcctacat tcccacagca 120
gacaaggttg anaatccatn gctgnaatct tggtattgat gagttncagt gatggaacat 180
gtgcttggcc acaggcaggt ccagtcactg caaaagtgac caanccanca ggtcaccctt 240
aacttcagaa acaattattg gtggtgaact gtacttaaat tgcagagaaa cctgtaagta 300
atggaaggtn aanaaaaatt acanaatgga aaatnatatt ttgggcaagc aaacanattc 360
actgagaatt ccaaaagtat attaaaaaag aagatagcta tgagttcaga tctatcttat 420
tggtctttaa tattacaacc aatccttaac tttccactat aaangaagga ttactanatt 480
gattactttc tgggtagata atctggtaat aaatgatagg gaaatcaaaa attactttta 540
tttaggagtt ngaattctta ctctcatcag acatttttt tctangggac ncttactaat 600
taaatgaatt taaagttgtt ccttanggng tcnttngccc ntantatatt tatnactgng 660
ttaatganta ntggaattnt gccggaanga cagnttcang aagaggaant cncgaancct 720
gataatctat gggttagaaa gcntccctgn atatcnaaaa ttgccanttt 770

<210> 4319
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4319
tgttttaatn ctngtcaaat ccttggctac tcgntctttt ngnanncgna ttcngnncgg 60
ntcccatcnn ttcgctgggg tgggcagttn tttgaaaatg ggctcaacca gaaaagccca 120
agttcatgca gctgtggcag agttacagtt ctgtggtttc atgttagtta ccttatagtt 180
actgtgtaat tagtgccact taatgtatgt taccaaaaat aaatatatct accccagact 240
agatgtagta ttttttgtat aattggattt cctaatactg tcatcctcaa agaaagtgta 300
ttggtttttt aaaaaagaaa gtgtatttgg aaataaagtc agatggaaaa ttcatttttt 360
aaattcccgt tttgtcactt tttctgataa aagatggcca tattacccct tttcggcccc 420
atgtatctca gtaccccatg gagctgggct aagtaaatag gaattggttt cacgcctgag 480
gcaattagac actttggaag atggcataac ctgtctcacc tggacttaag cgtctggctc 540
taattcacag tgctcttttc tnctcactgt atccaggttc ccttccagag gagccaccag 600
ttctcatggg tggcactcag tctctttctc tncagctgga cttaaacttt ttttctggac 660
cagttaattt ttncaactac taatngaata aaggcagttt ctaaaaaaaa aaaaaaaaaa 720
ctcgaacctt tanactatat gagtcgttta cgtagatcng actga 765

<210> 4320
<211> 744
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 4320
gtnccnnttt gaatncncat acaagctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agcttatctg tacgagatnc attccnagac ccctagtgga tgcctgaaac 120
ctcagatngn actgaaccct ttatgaacta tgtttttttca gtctgacaac caaggcggct 180
actaagtgac taaggggcag gtagtataca gtgtggataa gcaggacaaa ggggtgattc 240
acatcccagc ctgngcaaca gagcaagact ctgtctcaaa aaaaaaaaaa aaagtctcan 300
taacctatgg gataatatac taacaaacag ctgtgtaact ggaatnccat aaagcantgg 360
tggacanagc agaaaaatat ttgaagaaat aaagactaaa attatgtcca ntttgatgaa 420
aattatnctc tgacagatct aagantttna gcaaacccta atcaagatag tctctctctc 480
cctctcacat gcacgcacac gcaccgaagt tnagccataa tcaaactact aaaaaccant 540
aataaaanga ataatcttaa aatgtngcca gagaaaaaan gacacgttac aaacagaaga 600
acangggtta gaaaactgaa actttcctta naaactacat acgcagaaga caacaaattt 660
gcttaaattg tgaaaaatcc cctcacacta gagagaggct ttggtggtag catggctnag 720
taggtgcaca agacgtgccc tcct 744

<210> 4321
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4321
gnttgnngtn taantttnta aggatccctt tntntgaanc cctttctgca ggatcccatc 60
gattcgaatt cggcacgagg caggagnaat cacttgaacc ctggaggttn cggttgcagt 120
gagcacagat catgccactg cactccagcc tgggcaacaa aacgagactt cgtctcaaaa 180
aaaaaaaaca tagaatttgg atcctttggt cgggttctcc caaattcttt tgaggtgtcc 240
atggtcaact gcttcagctt tgttttggca acccccctgcc cgaagtcgca tataggctgt 300
tcttcacctt gtttccaagg ctgaggaaca gaaagtagcc tctgttttga ggaggtggaa 360
gttaagtata catttatttt ttactgtgac ttgttcagga ccacatttta caaaatgcct 420
tgtttccttc attgtttctg gaaaggaaag ttctattaat attgntttac tttgaatata 480
gaatagtttt tttaattagg gcttattttg aaaaattctg agtttaattc aaatgtatgc 540
caataccttc caaagtaagg taatattcag agacagttgt tggtgatcag atggcttaga 600
gaaaatttct ggaatattca cattcgaaga tccttattat gaatgtcttt gacttaaatc 660
taaccaaaaa ctgcacatta ttctttgnac attttcatta tatagngtta acaagcttan 720
ttgcaaacca ataaatactt aagctattta aaaaaaaaaa aaaaaaactc nc 772

<210> 4322
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4322
tnnctttnac tntnntaatc ctttntgang cccttntgca ggatcccatc gattcgcgtc 60

tgtaatccca gctgcttggg aggctgaggc angagaatca cttgaaccct ggaggtggcg 120
gttgcagtga gcacagatca tgccactgca ctccagcctg ggcaacaaaa cgagacttcg 180
tctcaaaaaa aaaaaacata naatttggat cctttggtcn ggttctccca aattcttttg 240
aggtgtccat ggtcaactgc ttcagctttg ntttggcaac ccnctgcccg aantcccata 300
taggctgnnc ttcaccttgt ttccaangct gaggaacaga aagtancctc tgtttngagg 360
aggtggaant taagtataca tttatcctnt actgcgactt gntcangacc acattttaca 420
aaatgcctng tttccttcat ngcttctgna aaggaaagtn ctattantat ngtgttactn 480
agaatataga ntacttttt tnattntggc ttattttnaa aaattctgag tttaattcaa 540
atgtntgcca ataccttnca aagtaaggta atntcataga cantngttgt natcacatgg 600
cnttacanaa antnctggat attcacnttc taaanattcc ctattaaatg aatgtctttg 660
acttaaatnt accaaaactg cncatattct cgtacatttc gtaaatngtg nacaagctan 720
ttgcaaacaa taaatacnta actaaaana 749

<210> 4323
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4323
nttnngtttt tantttntnn aanccttttgt tacntgcnct ttctgcagga tcccatcgat 60
tcgccagccc ctcctctccc cgccttctgg gaggaggagg tcacncgctg atgggcactg 120
gagaggccag aagagactca naggagcggg ctgccttccg cctggggctc cctgtgacct 180
ctcagtcccc tggcccggcc agccaccgtc cccagcaccc aagcatgcaa ttgcctgtcc 240
cccccggcca gcctcccccа cttgatgttt gtgttttgtt tgggggggata tttttcataa 300
ttatttaaaa gacaggccgg gcgcggtggc tcacgtctgt aatcccagca ctttgggagg 360
ctgaggcggg cggatcacct gangttggga gttcaagacc agcctggcca acatggggaa 420
accccgtctc tactaaaaat acaaaaaatt agcccgggtg tggtggcgcg tgcctataat 480
cccagctact cgggaggctg aggcaggaga atcgcttgaa cccgggaggt gggggttgcg 540
gtgagccaag atcgcaccat tgcacttcag cctgggcaac aagagcgaaa ctctgtctca 600
aaataaatta aaaaataaaa gacagaagca aggggtgcct aaaatctaga cttggggtcc 660
acaccgggca ncggggttgc aacccaacaa cctggtaggc tncatttctt tccaagcccg 720
aacagaaggt catgccggcc ccacangaaa ancnggcagg gccncggggg gct 773

<210> 4324
<211> 916
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(916)
<223> n = A,T,C or G

<400> 4324
nttccnnngn aanttncgng natnntgncn gaaccccttt cgatnncnnn gattcgnagt 60
acngacnagg agannctgnc ggncntgtgn tggaanctnn ntttggaccn cnctttnncc 120
ngtgccntgt gaactcagag cacgggcnnt ttggaccnac tcaaggccan tcatggcatg 180
gctcatncct gaggcacgna nnganactac attcncaggn gcccttcnaa acaatggacc 240
ncnatgcngg catactgngc ctgcgacccn aaanacnnna ngnntgtact gaatatcaag 300
atcnacttag antctaagag agnntggnct nnnaactgat cancanggcc ttccangggg 360
cancanngag acactgcgag tnacagagac ngccatgggc gntgctncct tacnnagngn 420

cacaggccnn accntcatgn aaccctaang ctgtncnnat gtactccgaa tggcctttna 480
nncgnacngg cctctaagtg atgcnncccg gtntcanatg nnnccgtaca atatctcang 540
ggacatgggg antnatnnnc anccnnaacc tttnanaaaa ggcggcntta ccnttacnnn 600
aaaaggatgg cttnnngcta atcaaaaanc ntgtaaaccc tnggcnatta taaacccaag 660
acccgggaca aanctngggg taccnngtcc aattnaaact ggcctnccnn tcntggtcnc 720
ccaaccaaag tnaaacctan ttngcagngg gttataccgg nanncnaatt ggntncaacc 780
ccaacttngg gaaaataatt tttncnaaat gcntcnatcn aaccctgnct tttnnanaaa 840
aacccaggct ttttnnctng gggaaccttn aancggggan ttggccttnn caaaaccacn 900
tnccnctttа ggtnnn 916

<210> 4325
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4325
cnttnnttna tgacccttgt tacttgctct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagggaa ccatgagaac cgaagctaga attgntattg aattacttta ttttctcttc 120
ccttattggg tagagataca tcattactgg cctcaggggt ttacccaaag aaagggtatt 180
tttgagcaaa taatgtgatt tcctggctat tttgttgggg gcttaagatt ttttttttтc 240
aaatgcattt ttagtcacta aaaattaact gtcgtaccat ctagaactat actgtccagt 300
accatagcct ctagccgtat gtagctattt gtattaagat taattgaaat tttaaatcca 360
gttcctcagt cacactagcc actttctaag tgctcagtag ctctgtgtga ccagcggcta 420
ctgtattgga tattatagaa ggttctttca ttcaagatca tcattcttga cagacccata 480
aatatttcct ataaagactg tagaagtgtg ttctggaggg tttgctctcc aaaaagaatt 540
gtaatataga gtagaattgg gatagagtat tgaagacact gggtttagac attggatatt 600
ttaatgattg tgtgtctaat tcatggtgct gncaactgag ttatctagtg atatgacctc 660
actgtcttga ccaaagccag aatngaaggc aggattcctg aatctatctt aaaattgcaa 720
tggaanagcc ttttccctaa attatccatt tgtaatt 757

<210> 4326
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4326
ntnnnttctn aatccttgtt cncgcctttc tgcaggatcc catcgattcg gagaggagca 60
ggtgcagtga ttcataccca ctctaaagct gctgtgatgg ccacccttct ctttccagga 120
cgggagttta aaattacaca tcaagagatg ataaaaggaa taaagaaatg tacttccgga 180
gggtattata gatatgatga tatgttagtg gtacccatta ttgagaatac acctgaggag 240
aaagacctca aagatagaat ggctcatgca atgaatgaat acccagactc ctgtgcagta 300
ctggtcagac gtcatggagt atatgtgtgg ggggaaacat gggagaaggc caaaaccatg 360
tgtgagtgtt atgactattt atttgatatt gccgtatcaa tgaagaaagt aggacttgat 420
ccttcacagc ttccagttgg agaaaatgga attgnctaag ccaaaagaaa gtctaattat 480
atacagagat aaagctaaac gtaattatta tttaaatgaa agctattttt ttaaatgaat 540
ngaaattttt catgatgcta ctaatttgnc actaaatctg caaatggtca ccctgaattt 600

cttctgacat tggtgntatt tgcttatatt ccttataatt ttaaatgaag gcacagtgaa 660
atgaaaattt tatactctat gnntctggna atttntaaat ccttaacagc caaatttttt 720
gcctttaatt cttttanata tatactctcg agaaatcn 758

<210> 4327
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4327
ngtanantan naacntggtt ntcgctcttt ctgcaggatc cctcgattcg aattcggcac 60
gagccaagga gttttccacc cgtctctcat ggtcacagcg ctagtcattc atttttgaga 120
agttgcttct tttacatcag aaaaccagtc aatcatatgg agacttcttt tgtgatgaaa 180
aagggcttta gaagttaaat acatgcatgc acatgaaaac atgcacaacc acagcctcaa 240
tcttgtattt agtttgggga aagagaagag aatttcctgt ggattatttt ttcctcaagt 300
gcacctctct ggttaaccca aactctgcaa gaaagcactg tgactaaaac atacataacg 360
cctgcataaa tattccatgg tttcagttaa atttcagttt ttagccttta cacatgaggt 420
caaaggagtg acgaaaatac aaagcaagga aaaaatgaaa tatctggttt ttgctgaatg 480
cttaatttat tttttactgt gccactccaa tatttatcaa atccaaatag catgaatgct 540
tctctgtagt aatactaatt ttgtgccttt tgtctgcttt cttaagacca gttgttcaca 600
ctttgtagat attaacaaat atatttccga ttggaataca aaaaaaaaaa aaaaaaaact 660
cgagcctnta gactatagtg agtcgtatta ccgtgatccn gaccatgata agatccattg 720
atgagtttgg acaaccacac tngatgcagg aaaaaat 757

<210> 4328
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4328
ngtanantan naacntggtt ntcgctcttt ctgcaggatc cctcgattcg aattcggcac 60
gagccaagga gttttccacc cgtctctcat ggtcacagcg ctagtcattc atttttgaga 120
agttgcttct tttacatcag aaaaccagtc aatcatatgg agacttcttt tgtgatgaaa 180
aagggcttta gaagttaaat acatgcatgc acatgaaaac atgcacaacc acagcctcaa 240
tcttgtattt agtttgggga aagagaagag aatttcctgt ggattatttt ttcctcaagt 300
gcacctctct ggttaaccca aactctgcaa gaaagcactg tgactaaaac atacataacg 360
cctgcataaa tattccatgg tttcagttaa atttcagttt ttagccttta cacatgaggt 420
caaaggagtg acgaaaatac aaagcaagga aaaaatgaaa tatctggttt ttgctgaatg 480
cttaatttat tttttactgt gccactccaa tatttatcaa atccaaatag catgaatgct 540
tctctgtagt aatactaatt ttgtgccttt tgtctgcttt cttaagacca gttgttcaca 600
ctttgtagat attaacaaat atatttccga ttggaataca aaaaaaaaaa aaaaaaaact 660
cgagcctnta gactatagtg agtcgtatta ccgtgatccn gaccatgata agatccattg 720
atgagtttgg acaaccacac tngatgcagg aaaaaat 757

<210> 4329
<211> 746

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4329
ttntttacct ttgctcttgn tcttttgcag gatccctcga ttcgaattcg gcacgagaga 60
agctcagctc ttcttggtct tggctagact gcctagattc ccacagcaga caaggttgag 120
aatccattgc tggaatcttg gtattgatga gttacagtga tggaacatgt gcttggccac 180
aggcaggtcc agtcactgca aaagtgacca agccagcagg tcacccttaa cttcagaaac 240
aattattggt ggtgaactgt acttaaattg cagagaaacc tgtaagtaat ggaaggtaaa 300
gaaaaattac agaatggaaa ataatatttt gggcaagcaa acaaattcac tgagaattcc 360
aaaagtatat taaaaaagaa gatagctatg agttcagatc tatcttattg gtctttaata 420
ttacaaccaa tccttaactt tccactataa aggaaggatt actagattga ttactttctg 480
ggtagataat ctggtaataa atgataggta aatcaaaaat tacttttatt taggagtttg 540
aattcttact ctcatcagac attttttttc tagggacgct tactaattaa atgnatttaa 600
gttgnttcta agggtttttt gcctatatat ttatgactgn gttaatgagt antgaaatga 660
tgcggaaggc agcttcagga agaggaatnc agaacctgaa taatctatgg gttagaaaag 720
cttcctgaat atcaaaattg gcngtt 746

<210> 4330
<211> 967
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(967)
<223> n = A,T,C or G

<400> 4330
nnnnnncann annnnnnnna ngnnnncnna ccannncnnn cnacnnagng nncccgctcc 60
aaagccggca anncgccgcn cngcnnnntc aaaccntgca ngcggcacnn gnngnncccn 120
acgangcgcc agcgcgcgng anacngngct gccaagaaan gngngcncan agnccggcct 180
ngagaacagn acagngganc gtcanaagca gngggangac agacgacnga ngaaacntag 240
agcccagggn nagcgngacg acggaccagn tcccaaaggc nggngcccaa agcngacnag 300
ntnnaggaag aaanacgngg gacacaaccg gagacanccg annaggagcn gacnganntg 360
gacccanang gcaagaagca ccnaaacang ncacccacca nacgaccggg gaaggcacga 420
acggtcngag cacgagnaaa acgngaacna ancaacgcgc acacanngng aganagaaac 480
accncnaaca ancnaancgn gggaanangn agaccggacn cagaagaang gcncaagann 540
cggcanngaa cccnnaancn gacggaannc agggncggng ccaacaagan ggcnangacn 600
ggncaannna nggccggcnn ggaaaaacga ccaagnngnn cnccaaaaaa gacanggcaa 660
aagnaaacgg gcaaagggca ancncnaagg nnaagcccna naacgcgcan nnggagcaaa 720
angnnccaag ngaggancna aagangggga aaggggccca cnaagngggc ggnnaanngg 780
cgaannnaaa acanagggng ggggccacng gnaaacccaa gcgcgaaann ccnggcncna 840
agggccccga aaacangggg ngacaaaaac ccnngccaaa accnnanggg ngggncccat 900
cgngannaca naaggngaac cgnccaaggg ggcanaaagg aaaggccatn nnaangnaaa 960
agagccg 967

<210> 4331
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 4331
gttagngtgn ggtatnaaca gctcttgtng tttttgcgga tccctcgatt cgaattcggc 60
acgaggcnac nggtgaagcn nntgttgngt gngctnctca tgaagaanct gtggcnggta 120
tgttcaaaga canggncnat atgcantaca gatatataga actcttcttg aattnaccaa 180
cangggccgg ntaatggggc gnatgtcagn caantgatnc aactgcatgn gggtgtctnn 240
tgcccaggnc acttacagng gnctggaaag ccagtcanng caangngtgg ncncagcgcn 300
ggnttcngtg ggtnaaccag gcatggnctg gntatnacgt aatcttagnn aggaacaatt 360
tnagtnactn tnttcntnat tcncnngnga gncctcttnc angttngtga gcatttntca 420
ataagaaaga agnctggggn acccatttng cancattnan ttcanggaaa aatctngatt 480
taaaaaagtt acctntgaac tgttnnntaa ngcncnnttt nnttgtagcn tgtgataatn 540
gatgcgaact tntactattt atcagcatgt tctnannata acntttgggg tannatcngt 600
ttagnantga ttcnttcatn agcctaagaa aacttaagnn nnggcaaaat gccggatcat 660
tgtcacaggc acgttcacna attnanccnc nctcggtgac aacntttctt gnttttngg 720
aaanaaattc cacagggnct agnctannca tngnttcntn ggaaatttan ctntaatggt 780
ttcggtanaa ntcccgtttg ngnggtttna attaaaaaaa nccg 824

<210> 4332
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 4332
gcttnanccc tttccatttc caatnntttg gctctcnctn aaacccttg gancccntcg 60
attcgaatnc ggcacgaggg ctaacttgcc ttgttnnact atngatgttn gngtcctgnn 120
ttcttaacac tttaagcagc tgntctcacc taaaggctaa tagttntaag taagtatctn 180
tttcttttta taatttaaaa attaaaaaat ttttaattaa ctgtttttaa attaaaaaaa 240
attattaatn atttntaata gacaggatct ngctatgctg nccaggctgg tcttgaactc 300
ctggtctcaa gtgatcctcc tgccttggcc tcccaaagtg ctggtattac aggtgtgagt 360
cactgcacct ggccaagttn natncttcag gntacattnc ttcagccact tcaatcaaac 420
atnnaattaa catgctataa tgaatgacta tncttaacta ggctaaccaa atgaaggcct 480
ttggnaactt acctntagtt acanccttca cttctttttt tttgngaagg gaaantnnng 540
ggnncggaca atactcctng nantnaacta tngtaaccct ttncntngac tngaattaac 600
nngggaaatt nggggaaant aattgnagaa ntgaacnngc ttgaatcnaa nannantcaa 660
tanaccntaa tagncaantc ntnttaannc cccnaatcnn ttagncctnt ccaatttggc 720
cnanaagnta anancncccc cnggcctttt ngccccaatc nnnaaattcg nnatnaaaaa 780
tnaaacccct ngcctttaaa ngggnacctt tnacacgaan gggggaaann 830

<210> 4333
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4333
gnnnnnnttt nnnnnnnttt ccnannngnn nnnttcaaat tttccnaatc gctngncttt 60
ttgcaggatc ccatcgattc gcaccgctat cagaaaaata tcctgttcat ggtttatact 120
gaatttgcaa actactgata tgatttttca ataaccactt gtatcttcca tcatccatga 180
gaggtgggaa gaggtacact gtatctctgc aataaaactt tggccaggtt ctacctcctc 240
tgagcaaagg atacttttct atgtaggtgt agatggttct cctttactaa tctgacatgg 300
tgcatctgga gacaacatct gatgggatcc aaagacaact tgaaacaaag gtggatgtca 360
gctcttggtg tgttttcatt tggttctctt ttttaaatct ccctttttgtt atcgctcctg 420
ttgtagcgtg tccatcagtg tgtgaagggt gcgccctgtt ccaatgatac tgcattgctg 480
catccagcct ttcgtgggag cacggtacca agcgtccgga attgattatc ccaatcattt 540
ttgatatgta actgaaaaat ttggtctcat gcaataaaaa tgtactggct gcattttagc 600
aaggtttatt tactcttgca agtaaaaacg atcaaccgtg aagcgtaaca aattctgtat 660
ttagtttttt ttctgttgtg gtggtttttg ttttggtttt tggtttgtaa gattctaaat 720
aaattaaatc gantnaaaaa aaaaaaaaaa aactcgagcc tttanaacta tn 772

<210> 4334
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 4334
gngnntttga aanccntggc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagactt aaacatgtca cctaaatgca cttgatggtg ttgaaatgtc caccttctta 120
aatttttaag atgaacttag ttctaaagaa gataacaggc caatcctgaa ggtactccct 180
gtttgctgca gaatgtcaga tattttggat gttgcataag agtcctattt gccccagtta 240
attcaacttt tgtctgcctg ttttgtggac tggctggctc tgttagaact ctgtccaaaa 300
agtgcatgga atataacttg taaagcttcc cacaattgac aatatatatg catgtgttta 360
aaccaaatcc agaaagctta aacaatagag ctgcataata gtatttatta aagaatcaca 420
actgtaaaca tgagaataac ttaaggattc tagtttagtt ttttgtaatt gcaaattata 480
tttntgctgc tgatatatta gaataatttt taaatgtcat cttgaaatan aaatatgtat 540
tttaagcact cacgcaaagg taaatgcaca cgttttaaat gtgtgtgttg ctaatctttc 600
catangaatt gtnaacattg actgacaaat tacctataat ggatntggtt aatgacttat 660
gagcaactgg nttggccaga cagtataccc aaacttttat ataatatcag aagntatcac 720
cttgtgaaa 729

<210> 4335
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4335
tcggcctttc aaatnccttt tctatttcna atncttggct actttcactt tccgcannga 60
tcccntcgnt aaaggcagcc cccaagtccc agaaagctga ctcccctagc atcgactacg 120
cagagctgct gcngcacttt gagaaggtcc agacaagcac ctggaagtgc ggcaccagcg 180
gagcgggcgt ggggaccacc tggaccggag ggttgtcctn tgacangcct ggcacggang 240
agggcccacc gagtggaccn tnaancacta cnggtcntna aacacntncg atgaggccat 300

atctactaac ttaggcccat ggtcagatat gatnatctgc aaacccatct tgaccttgag 360
tatgtgaagg ggtactgtac tttattcctg atacattttg gtttccatgt aggtgttgag 420
ctcctggttt tctgtgtttg gatgatgaag atttggaccc ttccattcat aatccctttc 480
taagtgaaac ggagaggctg gcttggctgt tccttgttat tccgaaagcc ctggtttggg 540
gcccatgttc acactggctc tcagtctagt caggtgcaat gttcttgaan angtggggac 600
ctaattatta ccanagtagc ancaagagag gaaacgttgt gaattaaagt attcaattaa 660
aaaggaaaca tgatttctac ctgaaaaaaa aaatggctgc nancggataa tngtntgncc 720
cntgntttnn anccggagnc cnnnnaccat 750

<210> 4336
<211> 991
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(991)
<223> n = A,T,C or G

<400> 4336
ggggncattt tgcnaaantc cccgcngttt ttncccngtn nttgccnaaa aanagncccn 60
tttgggggcn ccccccntntt ttgccaaaaa natccnnccc taggggccta acctatgggc 120
tgcnntatan gngggncagg gggagaancc ccgcnaaang cgnnaangan ggangnaaan 180
naacgggggc acacacgcnc nagngggcag ngncnncnan ggggnagann ngnncaggga 240
ncagnggggn nngnncntnc cgancanana cnnggnnggg agaannncna gagggnaagn 300
ncaccncncg anaagngnga nagggnggna ncntgnanna cgacnanact nggnggngca 360
anccgnaann gagacganga nanaggngtn cnanggcgca aagnagnant acncgcncnn 420
nngatacagn aaaaaggann naaannnacn gcnanganag agnganana nacaanctnt 480
ggaggaagag acggaanacn gggagaggaa gggntnagna annaaaggca aggattaacc 540
tnacagaaat gaanaanccc nanncacngg ngncntctgc aagngaacca cttnaagcca 600
angtnaagca gntgcagctt gatagcctgc taccactgag agggactcag aagagtgtac 660
tncattgcaa tacttaaaca gcgccatctt gctgtggaag cctacagaaa actgnggatg 720
aacacaagaa aacgatggaa ttactgcaga gtgatatgaa tcagcacttc ntgaaggaga 780
ctcctgggaa gcaaccagan cattccggca ccttcagnca catcagnact tggcaataaa 840
acccacagng agaattggaa aacagatggg gnganagaac tggccctctg gaaaagacag 900
cttnggacaa ggtcaccaac ngaccagatc cnggnaaaaa atccaaggca taaaggaaag 960
aagannggtc caaatctcag gggatccaac c 991

<210> 4337
<211> 1188
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1188)
<223> n = A,T,C or G

<400> 4337
ccttaaaaaa ttggggccct ttggggcctt tacttcnggg tagaatnctt ttttnttggn 60
ccaggggaaa tccccccant tccgcnaana aancgggaaa atttgtgccg ggggccaacc 120
ggaagggaaa cnttcttggg ggnccaccca aaggcccccc agggnaaggt ttccaaattt 180
ngggtnttcc ctttttttnc naaagggccn aaggtttccn atttttccc aatttaattc 240
ccaaaggccc ngntnnatnn tgnctangtn cgnnnnncnn atntntnnan ngngggcgnn 300
anattnnntc ntntntnntn tgtcnntcnn nnntnnnnnt nntaannent tattnatntn 360
ntatncagcc ncnnntanan nnantnctnn naatnntnnt tntnntactc nncnnattnn 420

ntngtngtcn nctncnttta nntcatcata cnnatatcat ntaaanaang cntnnactnc 480
ntatnatccn ttngcatctt cantgttttn ttnctcanct ncttgcntcn nntntacant 540
accantnntt aagctctttt tacnatgnaa tactcannaa gagntngagg ttggctgnan 600
tttanctttn taaantcntt gtccnntggg ctcntgaact ttttnnannt tgttggccct 660
ttnactttta ctntnnatna natgggantn cgntnnaatc tntnttcata naatttttgt 720
acnnntaanc gttgatntta gnanaaacta cnaggnacct nnntttcant aggnttttat 780
tcctnttttn aaccnttnnt ttgatatntt cttaactatn ngcanancnt tacntnancn 840
tntcnntttg nntaaaatgn gnatnggnnn acnncnatan gaccctnnag ctccnncatt 900
ttccttnaan anagcncant tcnantattc tattnnaatc aatnntatca ntcgngcttg 960
ctcttttnan cnnancatan gatntncang gtatntntan gccnanntnc naactantnt 1020
gcactcnact atcncancgn taataagacn tatanaangn tcntnnnatn naaccntttg 1080
nctnacantn atnttgtaca tannttcctc ncnnanannn nagnntnann ttatnatntt 1140
ncatatcann cnatanactn taataagtac tntataaant tncgnncg 1188

<210> 4338
<211> 941
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(941)
<223> n = A,T,C or G

<400> 4338
ggggttttna ataccttgct ncttnttntt tatgcangat ncnntcgatt cgnatnncnc 60
gcgaagntgg cnnatgcnga canggccngt tctgnatgan naatgnncat ctatntccct 120
cccaaanggg cgncccangg atatgtcttg ggatccnatt ncacccatga cgcctactnc 180
ntgctncttc ctctnntgct cnggtnttgt ncacaaatnn nnnggnanca tccnngncng 240
tccattggag atgtcgngna taaactgcnn tagatgtntn ctaacactgn tgnaaatgac 300
gagcatnctt atgagacgaa ggcntccnaa gcngtagntg cccangatnc gaggtangct 360
atgtggtctc ttatctaatc tagaaatgaa aacgccctgt ntnncagcga aanntanggn 420
acgnntgnac actngcttna acnnaanctt anatacaaca ggggaaggga aattgggggg 480
gaaaccattg acaggnctta tcanataggg nttaaatnag aggacccacc gnttgtaatn 540
aacatgnnga ttnatttggg ggaatacgga tncaanaggt nccaggttnc acttggtttn 600
tttttaacct tatggccnan tanncggttc aatttggatt ttggggangc ccctttttnca 660
ttttgggaan attnggagcc cnctaatggn cgnggaanca ntttgtnggn tnccccccaat 720
cntaatgggg acccctntna naaaacctcn ggggggtgga nccccntcct taaacccaan 780
nacgctttnn ttgggtttnc caanaaangc nnacccccccg gaaaacttnc cctttnngng 840
nnaatttctn caaccccccg gggnggaatt ttccctngng aaattggcaa ttcccngttt 900
naagggtgcc caaaaattcc ngnttttttgg cccncaatac c 941

<210> 4339
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 4339
gngngggnnn nnnncnatnt atacatacag gctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggc tcctggcatg aagaagatca agttagacac tccagaggaa 120
attgcacggt ggagggaaga aagaaggaaa aactatccaa ctctggccaa tattgaaagg 180

aagaagaagt taaaacttga aaaggagaag agaggagcag tattgacaac aacacaatat 240
ggcaagatga aggggatgtc cagacattca caaatggcaa agatcagaag tcctggcaag 300
aatcacaaat ggaaaaacga caattctaga cagagagcag tcactggatc aggcagtcac 360
ttgtgtgatt tgaagctaga aggtccaccg gaggcaaatg cagatcctct tggtgttttg 420
ataaacagtg attctgagtc tgataaggag gagaaaccac acattctgtg atacccaagg 480
aagtgacacc agccctatgc tcactaatga gtagctatgg cagtctttca gggtcagaga 540
gtgagcccag aagaaacttc catcaagact tgaacagacg ttttggcaga aaaccaggtt 600
cttgatagca gtgctcctaa gagtccaagt caagatgtta aagccaactg ttagaaattt 660
ttcagaacca agagtgagaa ccgaaagaaa agcttttgaa aaaccaaccc ttaagaggaa 720
aaaaagattt tcccactntc 740

<210> 4340
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(890)
<223> n = A,T,C or G

<400> 4340
angttggaaa nccngncntt tcaaatanct aggctactcg ttctttttgc aggtatccca 60
tcgattcgaa tncggcacga ggnccnttgg ngtnggnnat tntncannaa tnntnnacgg 120
acannncttc gcnattatgg tgntcttggg tgntngggnt tgttggttaa ccctacatca 180
taangcattn aatgnattan atnttgtnat tgntgncaaa anggaatagg gtcnacaant 240
nctgtgngna tnnaacctgn ntcanatngc ntttggnaat nttctntacn cnnntttnaa 300
ttccactgta aatnntgacn gattantncc nantggnttn tcnttggaga aaatnnattt 360
tncactcncn gtctncacnt tntatnaagc gtattttatg ctggcnggnc cnccatanat 420
ctacncccct ttgatgcctn tggnnanaaa taatgttaan tagtgcgcaa antngntatt 480
gtnntgngga caancntaaa tgngccatta nnggcntacn atgcnnttat gccacannac 540
canncngcna nngnttttga ttangggnan gcattccnta aacaacccng cncnatgaac 600
tngaactngn ttgggaattn antnngggaa tnaanttggc gntnatgggt gnngggnccg 660
cctttacccc gnccacanaa attccttgng caatttnnnn ctttaaaagg nccananggc 720
nttaatgggn ttnggnaact tntaancctt ttttttgttt gctntttang gngtggccna 780
gatggcacaa ncnncnngaa ntntnggtgc ntnaacctct gnttnaannc taantagggg 840
antgccaaat ggnttttnnc tttngcnccn aatantnttt ttcttgggng 890

<210> 4341
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4341
ntgnnnnnnt tnnccccttt cnaatcnctt ggctactngt tctttttgca ggatcccatc 60
gattcgggag aactgctcac tccttttccc tccccataca aactcaaagt cccctgggcc 120
ccaattcaga gttatgtttt ttttggcaca tactagaaag gcagtgcctc agcccttccc 180
tgaatccatg gaggtgttct gtttggggct ttttagactg ctgctgctca gctggttgct 240
tgaactgaca gtaggccagc ctgttctctg ccattcccta gtcatcctgt gcctcaccac 300
agcttgctta gagcaagcct tttctcagac cttaggcaca gcctctcctc tttacctgat 360
caatgttaaa tgtaagcacc cctgatccca ggacataagg aaagatgccc aattgtactt 420

ttgttctata gcctgtgaaa tggctagttg atcatttttc cacaaagaat taggtgttaa 480
gagttttcct tcaggcttta cttaggagaa tggactaagc tgaaaggtgt acttcaccag 540
caagaagtca actctagaaa ttcaaggatg ttccttctaa ttggtttctt aagccatctg 600
tcanggaaat ggtaactttn ggntttaatt tttnggctta attcccaagg ggggtaaagc 660
ccagnaaaaa ttngaaaaat ggaattattt tcctggatta aatnagcncg naaacctttt 720
ttcnaattct tcaaattntt ttaaangggg gtcttgcttc tttttnaaaa gcctnt 776

<210> 4342
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 4342
ntggannnct ttccccttte taatncttgg ctactngttc tttntgcagg atcccatcga 60
ttcgaattcg gcacgagcct tccacggtta tttcacagat atggagagct ggaagcaggg 120
agtgagtctc tgagtgttgg aattgtaagg gatcagaagc agggatcaga agcagtggtg 180
aagttcatcc accataaaac acacaggtga ctttgccttg aatctgcagg actgaagcca 240
actcttgggc acagaccctt agtcccttcc ttggccactc taagtcagat agtccagagc 300
caggcccttn gggatgtgac accgagataa atcagagaaa agctgtgaag cttggggaac 360
agagggactt ttggtgaagt aggtggtctg cagtttctat cttcttggga aaagcaagct 420
ggaaaagtga acagtggttg gtaggccata gtgctcccag ctgggtgaca taatgaccac 480
acagcacaag tgatgttatt agcaactgtg tggtgggagt aggttgtngg cttggacaaa 540
atcaatccgn gtgggaaaat tgttaggaag ttttattaca tttaaacttg gntaacctaa 600
aatcccntca aaanaaaann antctngncc aaanttaagg gtntnnnaat naaaaaaact 660
ttngnncctt taaaacttnt cgngngccnt nttaacgtta aatcccgnca tngntacgaa 720
tccnttggtt gaattttngc caaacccact tt 752

<210> 4343
<211> 1069
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1069)
<223> n = A,T,C or G

<400> 4343
gcncaannac angannnnnn nnnnaanaaa caacccnaaa nnannngnac cnannannna 60
nnnganngnn gnancagnag gnnangngtn anccgcnngg aaaccctgcg acccacganc 120
ggnggaaccg gcnnaggccg gacaccnngg cngnggncac gcggnacagn aggccacggg 180
gagcagaaca cngnanacgg cnnngaaacc nncccaccan canagagaga nnggaagtga 240
cagcacannt gganaagncn aagacccana ngacgcagaa aacaanggga cangaggcga 300
angcanangn ggaaaaanan agcggaagaa caganacgga gacaagncac caccgnnang 360
ncagaggcca ncganaccnn ggnnngccng ancaanagac aaacnccgac ncannanang 420
cggccnggan nanncngagg angcaaaaga gagaaangaa gccagggaag ganacnngnc 480
atncnnnccn ncnnacgaan ggaaacgagn aanncagcan ggcnggacac aacgacacng 540
gaagcaannn ncgnanggaa cngaaacnan ccgaagaann ggancgggng nnaatcaaaa 600
gnggaaccnn ncgaangncc ancncancaa gggcnnncca angngccann aannngncna 660
aaaagcgccc nccaagaggg ncgacganga cgnaacnaga gnccgacggg nagncgaaga 720
ccaaancagn nnccaangaa ngcagaannng gagcnaagcc cnngaannng anaaaaaang 780

ggcncgggnc ncacnacgaa gcccccanaa gggggaaana acgnagaggg gnaacagagc 840
ccnannnnnn gcgngngana ngacacagga nnacaaangn gaaaagggan ccacancann 900
gnaaacccgg gcaaggggaa acncccaann gcaaagaaga aagaacagag cacgcaaagc 960
agaaangnaa caganaacaa gggaacnaaa gagcgngaca cagnancnaa nggcaacnan 1020
nngnaggcna cccacgncan ngnnangccn nnagnacann cgcnanncg 1069

<210> 4344
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

<400> 4344
ttgatccata tanatacnnc tanttntgca ggatccctcg attcgaattc ggcacgagnc 60
ncatnccnac cactactgat gantatnntn caaagagnga tacnctntgn ctnatggnnt 120
naacnctcnt tatccaantg ggnaaggaac ttggcnccgg angacgcaga tgtgtncacc 180
tcattntcaa ggaaanctgt gaanccccctg cctccttttn cttgcctcng antgtntgtg 240
acnacancgg acnctnnnnn catcncnanc ntgtagngna acggnantgg aanatcngtg 300
cactcgtnta tnnnacngng agggaccatn naccnaagnc ancttagcaa antggcttng 360
atgctgtggc tgannancna ctgcnggtgc attcggacac atttgcccat nacnctgang 420
cncatttctg nggggtcaag ntcatnctga tcttntgng 459

<210> 4345
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4345
ttnnaacctt tgcatttgan ccctttgcag gatccctcga ttccaagnng ncacnaggtn 60
ngctgnacnc ttggctaagg nnactgattc tgngcnccct acccatgttc atggnangnc 120
cgngcctnct ctggccatnt gccncaacga ntattcntnn cccnnaattg ctnatntctt 180
gggatantag nntanntgan ngatttngca agacnagaan gtntctacnn ntctgnccan 240
nacgtncgct acttntnagg ccttaacaaa tcttggncat gcatggnata tatatcttcc 300
taangnaccn catgncaggn tccatnccat tcattgaatg ccaangatan accagctnct 360
ggtncnnaag nagtnntnag ncancntanc aaaganccnn gggcccntgg ngnttgacan 420
cattcatcgt ggaggaacaa tggannnagt ctnactttcn cnanncnann ttctgattna 480
aggnttgtga aagagtatta catnancgtg nanntcangg ntgatntanc ncanaaatgg 540
cancttttnnc ttgcatcnag ggtctnggcc cctttntnca taaaaannng atctgaatag 600
gctttnntan ttaccnncnn cacaccnnat gnantaanct aacccctttgc naangttagn 660
nnnctttacc acanaggtcn ttacncaaaa ntannnggtn anaaccccng ccantttttct 720
agattantnc ccaacttang ccctgncatn cacttgatac anggcccccct tattanaatg 780
aact 784

<210> 4346
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4346
caaanccttt gccccttttc aaatcncttg gctactcgtt ctttttgcag gatcccatcg 60
attcgntgct gcgactcagg cncnntgnat ggnaantgac ataatgtnan cnanangcnc 120
tctgntgtat gagttgtgct tggtttgnnc nagnaggaaa ctgngnnntn tataactacn 180
ccnangccnt ttggacaaca gctgggatcc aaccnttgct nntngnnnna ntgttctttt 240
cagnncctcn tgggntagac canaacantt ccttgtnaan ccnaacnngn caaaacntng 300
nancagggnt ncgtnnccca angtnnttnn ttanngnccc cnnngnngna aacnntttca 360
acccccttgnc tttggnanaa nncttngggc cntnaaaatn nnttnnatan naccttnnnt 420
ggggattcnt ttaatttcta ntnaaangtt ggtggtccna ttttaacctn naaaatgnnt 480
ngcaatgnnn acttataacc cttanatcgn ttgncttaat tgaaancntt aacngtctaa 540
acncccttnag ctaaanctcc caatatcgnn ggtaacccng gngnatgnnt nggggccaat 600
ggnnnntttca annnnnctnn aagatcctcn gnatnnnnag aaggatatnt nccnncntgg 660
gantanttct ctgnnntatt cnnncgaaaa aganaccttt gncctcttnn nattgnaata 720
ttngcctngt nttaaaancg nngncccant tttgggggaa tatnnnnttt ctnnganana 780
aaaatggggc ccncctgggn tactttatat cnttntnnng aaaannccgn cnaanatcct 840
ncatatggtt ggntcntttc atgacngcgg ggnttanttn ntncccg 887

<210> 4347
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 4347
tattcnatct gctacttgtt ctttttgcag gatcccatcg attcgagann aggangaang 60
acnctntgcn tggnacaggg ctntgnccct antctgaata tgtcattccn ncacggngan 120
cnnnagcctt tnnntctccc catntttggn aattactttc ttgangatgc tgcctttnaa 180
angcttcncg tacattatcc atntttaaaa aaatctntgg actggatcta ctgaagcgcc 240
nttgctntat taanntnagg gcctcnagca cctaaanntc tngaccatnn naagacattn 300
ntncattnna ctnctttgta taactaaata ctctntannn atttcnnttn caatacngtg 360
ganggnaatg anaagcatnc taaanttggg tnaatntant tcnntnanna tgtnngacna 420
aagaagaaaa tngcttgtnt tcaggttcat nggcttgtgc tgg 463

<210> 4348
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4348
tttcnaatgc ttggctactn gttctttctg caggatccca tcgattcgaa ttcggcacga 60
gccngtntnt nctaatnntn nnatgntnac ctgggnntgg tggtgggnng cntgcagnnc 120
canctactca gggngctgng gcatnanant ngcnngaacc caannggtgg nagttgctgn 180

natccgaggt tgcacactng nactccancc tgnccacana tcgagactng tcttataaaa 240
antaannnga nnatgnnaga cctatcagta gggtgancac ntgtccttnn gctntgcngn 300
tcnacnttna tgcgatgnga tccantgang ttnaaccccn ttccactnnn tngnnaantc 360
ntnnnttaca tnctgtgntc cccaaaacat ntcacgtaac anttattcct aggtgcagnc 420
tcnctatcnn taggntcttg gtnggccaaa ttcctgggat cangtgaagg tgggctgtnt 480
cagtaanaan tgaatggact gnanagngcc cattttacaa ggaccatnct tnctgggggc 540
aagccaataa attatttncc ctntttgggg gaaaanaatt ttcgganccn taaattanat 600
ttcnggaaac cnncccnaaa gncttnattt tcccnnnaca aannttngng ganncatttt 660
tanggggnna nnanaggngn naagggtttc ngttggnttn gcccntaant tcccaaggnc 720
ntngaaaccc ttatggggnn accncattcn ggataatttg nnaan 765

<210> 4349
<211> 891
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(891)
<223> n = A,T,C or G

<400> 4349
gtcntctttg aaancccttt gctacttgct ctttctgnag gnaggcatcc catcgattcg 60
ccnacgcncn gngngcaggc gggttgctna tggngcnctc ttccgcttnc ttgntnaatn 120
actntctgnn ctngctcgnt cngctgctgn nancggaann anctcnntct aaggcggtga 180
tncnnatatc cacagantna ggggataacn cnagacngaa cntgtgatcg aaaggccaac 240
agatngccta naaccgtaaa nangcanant agcngnccta tatccatang ctngctgcnc 300
ntgactagca tatcatanat gtcactgtca tgtncntncn tngaaaagnc cgtnaggnnt 360
nttatgatac nnggcnnntt cacttggann ccanntcaag cncncngctg ttacaatgct 420
gnngctgaat gnatacccgt ccnacntgnt nnattaggna acntgggatc ncttctatnc 480
actgtnacnc tcatggggtt ttgggnaaat gcccaangnn nngnccgnna ttccncccgn 540
aagntttgng gnatgttgtt gnngaccgna aacccccttgg ncgttaccaa ttgggggggа 600
aanaaccttg ttgggccttt taaaccccgn ggtaaaaacc ttnatacgga aattttagga 660
gtttgnccan atncccggn ggntnaaggc cnnacccaat tgtttaaatt ccccccaacn 720
ttgnccttg nnnnaanggn ccttggtnaa accgggggga aattcccctt ngaacancgn 780
antagggtng ggcanggcnt tttanaggga ntcccctnga aaagcggctg gnnggtnaac 840
ntttcgggct ttggggttga acangnantc tncaaattng ggaaatcntg g 891

<210> 4350
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 4350
ttnctaannn ntncttnnna nnnnntggga nctttnnctn nctccannna tncnanntgc 60
nttncggttt gggagtcagg cctgggcagg accctgctga ctcgtggcgc gggatctggg 120
agccaggctc tccgggcctt tctctggctt ccttggcttg cctggtgggg gaaggggagg 180
aggggaagaa ggaaagggaa gagtcttcca aggccagaag gaggggggaca acccccaag 240
accatccctg aagacgagca tccccctcct ctccctgtta gaaatgttag tgccccgcac 300
tgtgccccaa gttctaggcc ccccagaaag ctgtcagagc cggccgcctt ctcccctctc 360
ccagggatgc tctttgtaaa tatcggatgg gtgtgggagt gaggggtacc tcccttcccc 420

aaggttccag aggccctaag cnggatgggc tcgctgaacc tcgaggaact ccaggacgag 480
gaggacatgg gacttgcgtg gacagtcagg gttcacttgg gctctctcta nctccccaat 540
tctgcctgcc tcctccttcc nanctgcact ttanccctag aangtggnng acctnanggg 600
gaanggacaa gggcaaggng ggccccatga aaaaaaagcc cctcnnttgn ccnacacttg 660
ncttgannnn ctngcttctt nctggtggcc ccanangntn ggnnttnncc aaccccacct 720
gggatttnct tgcccnttgg gggnngnact tggccccttt cctnggnttt tttgccnnca 780
cnngggcctt cnttgggaac ctttgtcacc ct 812

<210> 4351
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(938)
<223> n = A,T,C or G

<400> 4351
ntttctaaaa tggccctggg nccccttttt ccnaaaatcc cctttgggcc tnctttttncn 60
aaaaatcgcc tttgggcnaa ctccgnatnc ttatntggac angggaatcc catccgantn 120
tccgganatt tcggggccac cggaggggaa tttngtggna ccatggggtc gggttacaat 180
nananagggg taantnacca ttgggatggt taaaatnana aagggccaat caccattggg 240
acngttacat aaaagngnat cgctgnggca agccaccaaa caattcccat nanggaaatt 300
ttnnagaact tttanngaa tntggcncaa attnttcaag ggcccnttta nttctcagan 360
caccccggnc cttnttggat naatganggc tggcggnngn ntggagnaaa anngacccan 420
nttaaatngg gnnaccnnna tgaaaggttn ggcncnngaa tgaaccccng taccctnaag 480
gccgttantc cnaantngan acntaaaact nnacnaaaac cattgtctgg gnccaactaa 540
tggcggaccn ttggccaacc taannttta acngnncatn ggaccnaanc atnnaaancc 600
nggaacagnc ggaaaaanag gncgtganac tnngataatg ncatcnggaa cnnctgaccc 660
tgnnnttccc tatgangggc aaaaaaaagg cctccnaagg gtnngacccn tttnattnnc 720
cccnttncga nccaacgcnt tcattncccc tcncaggggg nntcaaanan ggccntcncc 780
ncntgnaaaa cgacngtccc ctggggcctt ttccaataan atnncncccc tttnntnacc 840
ccnnnntaaa aanccgnggg ngaanaaaag tcccctnaaa aaatattccc cccnnncncn 900
tgnccnacca ctnaatnctc aaatnaaanc cntttcnc 938

<210> 4352
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(938)
<223> n = A,T,C or G

<400> 4352
ntttctaaaa tggccctggg nccccttttt ccnaaaatcc cctttgggcc tnctttttncn 60
aaaaatcgcc tttgggcnaa ctccgnatnc ttatntggac angggaatcc catccgantn 120
tccgganatt tcggggccac cggaggggaa tttngtggna ccatggggtc gggttacaat 180
nananagggg taantnacca ttgggatggt taaaatnana aagggccaat caccattggg 240
acngttacat aaaagngnat cgctgnggca agccaccaaa caattcccat nanggaaatt 300
ttnnagaact tttanngaa tntggcncaa attnttcaag ggcccnttta nttctcagan 360
caccccggnc cttnttggat naatganggc tggcggnngn ntggagnaaa anngacccan 420
nttaaatngg gnnaccnnna tgaaaggttn ggcncnngaa tgaaccccng taccctnaag 480
gccgttantc cnaantngan acntaaaact nnacnaaaac cattgtctgg gnccaactaa 540

tggcggaccn ttggccaacc taannttta acngnncatn ggaccnaanc atnnaaancc 600
nggaacagnc ggaaaaanag gncgtganac tnngataatg ncatcnggaa cnnctgaccc 660
tgnnnttccc tatgangggc aaaaaaaagg cctccnaagg gtnngacccn tttnattnnc 720
cccnttncga nccaacgcnt tcattncccc tcncaggggg nntcaaanan ggccntcncc 780
ncntgnaaaa cgacngtccc ctggggcctt ttccaataan atnncncccc tttnntnacc 840
ccnnnntaaa aanccgnggg ngaanaaaag tcccctnaaa aaatattccc cccnnncncn 900
tgnccnacca ctnaatnctc aaatnaaanc cntttcnc 938

<210> 4353
<211> 599
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(599)
<223> n = A,T,C or G

<400> 4353
gnnnnnnnnn ngnnnnnnnn nnnnnnnnnn nannnnnnan nnnnannnan nnnngngnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnan nncnangtgg aaaancccgt ncccnnnnnc 120
ngggnaccat cnnngncggg aanccgaagn ggaaggngan tncggggnnc cggangaaaa 180
ncangggtgt tgggggggggg gggccgtatc annngaccan ggggngaagc acttnggnan 240
agggagcaaa gacacantat gtaaaccnag gaggaggaga agaangcaaa nnngcatgng 300
aaatnnagnt tgaagaancg ctttttttgc tnttcagcaa tggtatnnat gaacaacaaa 360
aatatagaaa aagngagaaa aaggcaanna tnaantatnn nctgaggaac aacaacaaag 420
acaaaaaaat gggggggggat tgatttantn tcccctgaca agaaaaagaa tnggatcttt 480
agggnctaat gcaacctggc agactcactg agggngaang gaatgngctg aaaaaattcn 540
agcctgacnt ggcaagctcc caangggaca ccaccncaat ggagaagaaa gcaggaaag 599

<210> 4354
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 4354
ttnctaannn ntncttnnna nnnnntggga nctttnnctn nctccannna tncnanntgc 60
nttncggttt gggagtcagg cctgggcagg accctgctga ctcgtggcgc gggatctggg 120
agccaggctc tccgggcctt tctctggctt ccttggcttg cctggtgggg gaaggggagg 180
aggggaagaa ggaaagggaa gagtcttcca aggccagaag gaggggggaca acccccccaag 240
accatccctg aagacgagca tccccctcct ctccctgtta gaaatgttag tgccccgcac 300
tgtgccccaa gttctaggcc ccccagaaag ctgtcagagc cggccgcctt ctcccctctc 360
ccagggatgc tctttgtaaa tatcggatgg gtgtgggagt gaggggtacc tcccttcccc 420
aaggttccag aggccctaag cnggatgggc tcgctgaacc tcgaggaact ccaggacgag 480
gaggacatgg gacttgcgtg gacagtcagg gttcacttgg gctctctcta nctccccaat 540
tctgcctgcc tcctccttcc nanctgcact ttancctag aangtggnng acctnanggg 600
gaanggacaa gggcaaggng ggccccatga aaaaaaagcc cctcnnttgn ccnacacttg 660
ncttgannnn ctngcttctt nctggtggcc ccanangntn ggnnttnncc aaccccacct 720
gggatttnct tgcccnttgg gggnngnact tggcccctttt cctnggnttt tttgccnnca 780
cnngggcctt cnttgggaac ctttgtcacc ct 812

<210> 4355
<211> 819
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(819)
<223> n = A,T,C or G

<400> 4355
gcttnaatgc ttntctaatg cttggctatg cggatccctc gantcgaatt cggcacgagg 60
acctatcttg atctggatag taaagtgagg actttaaaaa agtttnttaa attactggga 120
gaaatcatgg agcacagatt caagactttt cancatttaa aaaggtggtt ngnctttncn 180
angcaanttn tncttngcca ncttactatt tcancggncc tatgnngaaa aaatcaantt 240
ttgccccatg antnanttan gnncgttacn ccntcncnng gagctcnagg acctgcctgt 300
nangaccagg gctgggcctt gccaacccan ggcaatgttg gggccngagg ctgctgtgtc 360
tgnccaagct nctntcagag tccaattccc cangcctaca gcgctgtcag cttgcaccct 420
ggcattctca cagagctggc ttgnccaccc cantgggggg ctatannctc agagaccact 480
tcatcctcnt ggaatcnacc tcttttctaa tacccntctt tggaaaaaag agcttgnccc 540
ntnctnnang caacactnng aagcttntgg gccntggtgn tgtaataatg gtcttnccat 600
tnccgttgaa acnncantgc ccntggttgn tgttntcgtn cagntgtcgn tgaggnaacc 660
ttnggnattg cancntttan ggccccaagn ntccaaangn atntncantg naancctncc 720
ctataccccn canccccnan ttnanntaaa attnnccnna aaaacccttt naaatatana 780
aaaacncana aacttttgng nccttanaa cttttngcg 819

<210> 4356
<211> 913
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(913)
<223> n = A,T,C or G

<400> 4356
cccngcgnnn nncnncacng ncngnccgcn gnancgnncn nngcgcggnn gcngncnnnn 60
nccnnnnnnn nngnnnnagt gcancnatna gctcccggcg gacncagnnc cagacccnng 120
nggncgaggg cgcgngcnag gnacnnnttg nntttcggtn tgncccncga gccgagngcc 180
ggggcanggc ggnnagcncc ggnccagngg ntgtgngcnc angngngngc nngcggncgn 240
gggcgccctg gtcngcgcgg gnctacccnc ggnnggaggg agattncgng ngngcggncg 300
aggcacantg gggccggagn agnanggtgc gcgcncaggg gnaanacngg ctngtncgcn 360
gnggccnggc cntctgngcc aaggagnccc ncccnccgag nggggcggna tccnggcccn 420
agccgnttac nagccnnaat cnacnnnggn cccagaggcc cccggtcccc nacntnggcc 480
cgaccggnng ggnccccccgn gggggggaatt tcnnngaggc naanancggt nnggnaaccc 540
gnncgccccg tcaagagaac cggcncnnac nnccaacagg gccnaagngg ggcctagtna 600
aacaaanccc cacgcccacc cggcggnang ggccncgnnn gggngttacc ntatccngnc 660
cgnaagcccg gaancggaan ggggccntgg ncaaaaagcn angggttnnn ncccentntg 720
gccnnnangg gcccnccgng aaactngggg ggggggnggn gncccccaagt atncggggna 780
agccctgnag gggggggann gtaacccttn nnnccctcnta angaaacggg gggggncnnn 840
ccccccccca agggggggggg nggnttnaag ggcganccca ncnacnctnt gctcgnggaa 900
nnaccccgcg cgg 913

<210> 4357
<211> 745

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 4357
tttctaaatg cttggcnact cgntctttct gcaggatccc tcgattcgaa ttcggcacga 60
ggataggcca cattccagta agaactcaat ttgtctccca aatttgcaga aacaaaacgt 120
gatttaaaag ctgagctttt tatcagaagc ttttttgatg ttttaagtgt tatgtgactt 180
gttgaacttt ttaaaaagtg ctacttttaa aatcccagat actctgaatt ttagaaaaca 240
aactaattct gattgtgtcg tgcccaagtn ccctttttt ttaatgaata nggaccaatg 300
ccacattgct ttttatattt ctttcttttt taatgtngcc aaaaccaaaa gtagctttgn 360
tttcctttgt attttgctac tttgcagtat ttgtgtgtgn ggttnttttt ccttaatttg 420
aaagggacag cactgtgtat gtttataaac taaatgaaga tnagatatta ttttgntaaa 480
cattcatctg agaacaatca angcagtagc ccatggngct ggctnctttg cagcannaaa 540
ccntgnacat tttgatgact gtacaacang gaagaacttt gaaaaaatca cggtgggatt 600
catattaccc accggntntt catttcatgg gannctttct tgatcaaaaa aaagctnacn 660
tccgtaatnt nntnatttat cctttctgtt ntcntaanaa aatatngggt tgtttttggt 720
ncccanaaat ggnaattttt gcnnt 745

<210> 4358
<211> 893
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(893)
<223> n = A,T,C or G

<400> 4358
nnnnaanaan anngnncana nncannanng nnncnncncn nncannncnn nnngntnann 60
nacgnaanac annnannnag nantccnncn nnnccgcncg cgnnnnnnnn ncagnnngcn 120
gnagncacnc tctttnaaat cncttggcng agntccatgc angnatacca cgcagcggna 180
ggacaccngg cgntggggnt cnngtagtnn ggncacaggn ngggncntat ggcaganaag 240
nacncagcan cnacccagag cgtaatgggn ggccganacn ggntggggng cacgatnact 300
gtnccaanaa agacggagaa ctggcagcaa ctgcangngg cggtggntnn cnncnacnac 360
nnattgcnag tcatagcggc tatgtgcana ttgactggaa gagagttgaa aaagangnan 420
ataaagcnaa aagacagant aagaaacgag cgaacaaagc ancaccngna ancaacacnn 480
taattganga agcaacagaa tngatcaagc agaacatngn ganatccagn gggatntgng 540
gggaggctnn nagctcggac ntgcatctna aggacaatga atattcnccc anaaacggat 600
ncaaactatg aanaacagaa gtgggcagcc antaaggcag nntctcaaaa gncatactcg 660
ccaggantct ctanggcaag gagaaacaac cnngntggac aattantcaa ttccaaactn 720
tanccattat gccaanctgg aagcttggca aaactagnna tcngctngan aaaccaacct 780
atatggggca tgcggaaccc ngangnantn ccccgngcaa aaacgnnggc tancaancga 840
ntnagcanaa aanatggcnn ncngtnnaag naaacctngc cctaanaaaa ccn 893

<210> 4359
<211> 1837
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1837)
<223> n = A,T,C or G

<400> 4359
cgggtttggg gnttttttcc nngnntgggg ggnaaaaacc ccccctttt ttttnnggg 60
gggacanaaa gnganentnc nctcgnngcn cgngcngnnn gcgngntgcc tnanncgtgg 120
gcncgnntgt gtgggngntg gncgtantgt ncgctncggn gcngcacaga tgnngcgnng 180
ggggnngtnn ngnngagnca gtnangncng cnagcnnnag tgntnttttt tngcnangnc 240
ggncnanggn gagagntgnc nnnngngggg gggnatggna gcaggngngn ngcgggggg 300
ngnnggngnn ncgngngcgn naggaggnng gnggggctgg nncgggcgng gnnncgcgcn 360
cngtnggccc nnnngtnncg gngtgggggc nnaggtggnc gggggcaggg gngttactgn 420
tttggcgcga ggngngncca nngcanggna ncngagtgng agannggggcg gcggnaaggn 480
ngtggnancn nngtctngnn gncggngnnt tnagacgntn cnnnnggang agngtgagcg 540
ngnnggcngn ngagnntgcn cacgcagngn nngggagcga gnngctggng angtatganc 600
gnggggcggn ntgnnnggca nnataggntn nagtgngaca ngcncnggtc ngaggnntnn 660
gtnnatngct cgntnnnatg gtgnnnngca nnangtcgag ggncgcgcgc tnnaggaagt 720
gtgggggtgt cnctntntgt ngggttangg nngagnnctn nntnagagct cgnggnnnng 780
ccnnnnagag tcgcnncncg aggtggnncn gacgngccac gangtncacg ngngtntggt 840
gnaagcatgt nggncgtnac gcatcgtacg cgntnngnng ttgncgnnac gcnctnnggg 900
gctcgancnt nanngcgang gannggggga agggcngcgg nccacggtnt ncnngactgg 960
ngtgngngag gtctngtgcg gtggggntag tgngacntgc agncnntnct cagganagng 1020
gngggactgg tagctnacag ctnngntatt nggacggcgn gcgannggtg nnantgtgtg 1080
ncgngngnan ggnggncgan anantcntcg cggntcntga gacggagctn gngagcggng 1140
gannggngng agngnngaga nntcgtgagc naggagaggg agcaggcgnt gnnagcngng 1200
agngggtgtg cnnnangtac agtgtgnagg ncagagnncg cgantnngga gtnccgcncg 1260
tntcggnngc tntgacgtgt ntntcggtnt ngggggtngc gtcngtgnnn ncngngtntn 1320
nnnagggcgn gnacgtgnnt ntgtggggng catagtatng gcgctnnanc nctgtcgcng 1380
cgagaggtna gtgngtntgc nncgcagngt ggngnagtga nggcgggtgt ngtgannngg 1440
ggtgtnncgg tnagnggcgn gggacgtgnt gnganntgcg ngnnnaagca cggagcgngn 1500
gnntcgcgcg gcgagacngg agattnngan gnngaggcnc gngcncncgg aggtangcgg 1560
tcntngagga gcnngnggta tggtngcgca ngcgntnttg ngcgcntngt gactgggagt 1620
ncgctntngc gntagagtac ananggaatg tnatctntcn ggnacgggat gganacgngt 1680
ggnganagct gcngnctcga gggacanatg gcgcgcggtc ggnagnagtg ngngnagcgc 1740
ggacgngggt ctgagacgcg nnggtggggn nnttnganan gtannngncnt gngngnggag 1800
nnngnntgat gcngggagcg gngtatatna tggngnt 1837

<210> 4360
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 4360
gtnacncccn gcntttctaa tgcttggcga tcgnactntn tgcaggtatc ccatcgatnn 60
gaatacngca cgaggcgagt caaantgtnt ntgnnagcng anctcctnnc gggaccngng 120
ngcngngntg ncnntgatgc nagggtggtc atgtnnnnca ncaangccnt ttttgntggc 180
cnccnctttg ntgaangang gatgtggaag aatgagcttg atncttgtna nntgccnaat 240
nngatggcca anngattgta tagacnctcc catatggtga canacccagt ntcancttaa 300
ntgaatgtac tcannnnncn ngnccntcnn nnntcnagnc nccttncttn gnactntann 360
nntctntatn tttatganta cccntantgt ggtgcnnnct tgagggggan acanatccta 420
tgntcatncc cngnnancta cttttggncc nccagatccc catgnttttt tccatgcnct 480

gncaacttgn atctnttaaa tacatagggg gtgnacgngn gtataantac naactcttct 540
ngggtgntgn nganaantnt gnccangcct gatntcantc tcangtgttt agttaaaacn 600
attnnnnata caccttttt tnacccnttt attggggtcn aaaaaaaant tncgtcccgn 660
tttggaaann tngnttggnc ccttttttntt ngnancaatc ccngaacctt ngntaaataa 720
ntanccctcn tttgaanata ntggannnng cnccccttncc ntcgtttttg gtcgcnggga 780
anaaaaaaag gnctcntttt tcntngggat tnttnttggg ggctcntngg cctttntttt 840
nn 842

<210> 4361
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 4361
ggnttnnnnc nnnnnntttt nnnagagccg gnnnnnngnn nnttnanaat agncaggcta 60
cttgttcttt ttgcaggatc ccatcgattc gaaacaacgg agttctcttt tctgaatctg 120
caaaaaaggg tactcacttt gtccagttat gctgccaaag aaatattcct ctgctgttcc 180
ttcaaaacat tactggattt atggttggta gagagtatga agctgaagga attgccaagg 240
atggtgccaa gatggtggcc gctgtggcct gtgcccaagt gcctaagata accctcatca 300
ttgggggctc ctatggagcc ggaaactatg ggatgtgtgg cagagcgtat agcccaagat 360
ttctctacat ttggccaaat gctcgtatct cagtgatggg aggagagcag gcagccaatg 420
tgttggccac gataacaaag gaccaaagag cccgggaagg aaagcagttc tccagtgctg 480
atgaagcggc tttaaaagag cccatcatta agaagtttga agaggaagga aacccttact 540
attccagcgc aagggtatgg gatgatggga tcattgatcc agcagacacc agactggtct 600
tgggtctcaa ttttagtgca gccctnaacg caccaataga gaagactgac ttcggnatct 660
tcaggatgta actgggaata aaggatgttt ctgttggaca tgtactgaaa attaacacat 720
gtngtancct taaaatttta gactttctcg acatgaggct ggtacn 766

<210> 4362
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4362
tttgaancct ttgaaaccct tttgcatttg aaacctttgc aannccgctt tttgcnggac 60
cccatcgntt cgaattcngc ncnanggcaa ctttnnggaa ttcntacngt tgangactgc 120
canatgaana cctactttca actnctttt ccccccctcta gaagaatnaa atcgnatctt 180
ttacttacct ctggcnaaan aaagaaaaat gaaaanagtt catttattca tnctgattct 240
atntancaaa actgantgnc aaaagtgcct tcngtccaca cacacaaant ctgcatgtnt 300
tggttggtgg ntctgtcccc tnaagaacaa gctacacatc atggntacan tataaattct 360
cgatctacct taangatgag gactccntnn agaancattt gctattgatt aatacactgc 420
ttnggcnngc nagttnanca tncntgcagn ntgtctanag accacanang ggccttttgt 480
ttaanganga atgatgntta nactnttttn aaaacctata aaatgggncc ntttnnactt 540
tgttnacant naaangcata agtnggncnc tggncantac cnantatnaa aatgtctanc 600
ttnggnaagc ctcatgaaan gngggagngn tagaccgtaa tactggccca aaggngngag 660
actttaactt ctgtgcacnn cctgggncan accacctgcn nctgcctnta tgggttnacg 720

agctnntaga cagaagaaca gtttgc 746

<210> 4363
<211> 900
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(900)
<223> n = A,T,C or G

<400> 4363
tcttactttc tttttngaaa ccctttacg caaggatccc atccgatttc gaattccggc 60
acgagcagag nagccctttc ccagnaaagc ctggacaccc gtgtctttat ttngnnagcn 120
cgtgctagtt gcttttaact ggccgacagg tggctggtat ttagcccctg aattataagg 180
aaagatagga cagaataaca agcaaaaggg gtccgatggt ctcaccactc aacgctaggc 240
gaaggtctca ccgttcggcg ataggcgata gtctcaccgc tcggcaattg tctcaccact 300
tggtgataag tgaangtccc ttcgtggtca ccaaaatgtg tncagaattg gtgggttctt 360
ggtctcactg acttcaacaa tgaanccacn gacactcgna gtgagtgtta cagttcttaa 420
aggcagcntg ttccggnagt ttngttcctt cctgattgtt ccatatgttg tttcannaan 480
ttccttcctt tctngntngg gttccctngg tcttcgccnt gggctncaag ganatggaaa 540
ncctgcaaaa ccctttcncc ggtnaaactg ntttaccagc ctctttaaaa tttaggnccn 600
ccatttttgg ngangtttng ntttccnttt cccttccccn attngnggcc ttccnctngg 660
gccttctcct tnggcccntt ccanggtaat tnaaaaacct tnnnncagan ccttttcnnc 720
acttgcnanc ttgttttnac aaaccttaat tnaaaaggcc ccttggtcng aaccccccaa 780
nnaagtggaa nccnnttnnc ccaaanaatt taatttngcn aaannaacca atanntaacc 840
canaccnttn tcaccancnt gttttcnaaa ggggtanccc ctaatccnnn atttgcncnt 900

<210> 4364
<211> 1565
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1565)
<223> n = A,T,C or G

<400> 4364
ttttnggnnt annngganncg annnnnnannc tcaacnnggg gggnaaaaac ncccccacgg 60
nnagggccag ggggnaancc ccaaacnggg aaaacccggg aaaannnacg gggcnaacgg 120
taggggggngg gngggggccc cgggncnctg gggggggggc agaancaaan ncaagcanac 180
ngggtttttt ttttttttna naannggggnc cncnacaggg gcggnggaaa ngccacacgn 240
gggggggggn ggggnagtnt gtggtctgaa aaaaggncnn nggggggggg ggctactnaa 300
aagccangag cnacangann cnagnnaacn cgganacang ggnacanngc nnnanaggaa 360
nccncnncnn gagaaggccg gnanngccnc gagngnagnc gcncnacgag nnccaccngc 420
nccaaaacan cnnncnacca nnangnngnc nnnaaanaan angaangcgc aaacanacnn 480
acgcaacgcn anananaann aaagnnngnc ngaancgnnc nncncnaacn ncnnacacna 540
ncgggnaaga nnganggnng nncacnaaca acnagngcan gngaganaan ncagcannga 600
gnnnnagcng acncagnacc ncacnacaaa gncanagggg nccnacannc nanaaaanna 660
nacgnaagnc ncanacacnc aagancnatn gaaaaacacn nccccaanna ncaacaanna 720
ggatacccac aagcaganna caccanncna nngccnacnn anacgcccag nangnnacaa 780
tagacacnac nagcgnnanc anaganaacn cncnngctna gnncgaanaa nnannagnnc 840
aagacggacg ngaaancgac acaangnnnt ncacacaaaa ncncaagnag actagaggan 900
ncgancacng atacagacaa cacacagnac gcnnggcacg agacaannna agnnnngnaa 960

gacgcganac anngacagna nnncgcncan cgangannna cgngacacna canagngnna 1020
cacatngaag cgacnncaga cngagngcnn aagnananga agcgnacgaa nnngcanana 1080
nanagacana acagaggagn gagngnacca gcanacacaa gnnaaanaga gcannnacan 1140
aaccnacacg tnnacacccg gggcanagng agntnnacnc nngaggncac gcgacanaga 1200
gnaggnacac acacngacaa nanancgaca cagacgngac cnnagacang agagngcacg 1260
acaaanacnc gnncngcagn gacncnccag nacancgcga acacgacgnn gacnngagaa 1320
anagaananc aagacanang ncnaananac aacaganaag ngnagacnca nacananaga 1380
ntngngacan atccgacaga gacacganac cncaanacng acgcgngann agnnanngag 1440
aagnnnnccn gcgccgacnn nananngnna caantcgnaa cgangagagc gccggangag 1500
angagcacac acaacancac ntnnnacnac agcgangaag aganacgnga gncnagagac 1560
agaat 1565

<210> 4365
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1052)
<223> n = A,T,C or G

<400> 4365
tncgtgttgt cccttgnnaa tccnnaaant nncttgccat cgnannntng cgacncggag 60
gcaccgactt cangcnnggn naacncnngn ngangacnnt gannngttttt gacagcnnac 120
ngnganctng ancacgtnng ggnngcngna gaaatgcacn cncgcncnca gnacgctnan 180
gnngntacnn nacttgangn anaagnnnaa nnnaccgccn naacagaaaa cgnnnnggtc 240
ngacgccant ncaggcnngn anananactg anganagana nannccnggg acgntcnnnn 300
cangaanagn nnnnggacat gannacnnna gnanaggcng nnnannnnna canaancgng 360
nnnanacnna tnngcannna gcnanngcnc acctntnaca cnaagnnaga nnaaccgcgc 420
gngantngac ccanancaat nanncnnnnn gcttcactcn nagngcanac ntgnntaaga 480
cggnagcanc ccnncnatcn cgacaggccg nnncagagag gnatctctna cgacacctag 540
cgcatacnta nncacnanac aggnccgagc agaagatcnc tnannancna nntnnatcnc 600
ncnnanaaca tgccgntntn nacccctnnn gtcantntga cacannanag tacgataaat 660
gntccagacc gatagagcna nctctcncac gntnngnngg cnngngtaga cnccaaagcn 720
acngnancgc atntacgnnn agnnngcntn actncaannn ngctnacncc gtacgacagc 780
accantnnan tgngtcgnnn acaacngnng nntggnannn tnggnaanng annnccntat 840
gtnnnnncgc cntcnnngaa ntcgaaagct ggncntngcn nncgnnnggn ncnanccnaa 900
nnannacnnn gtnancngng ncgaannnat annagnattn ancnttcncg nctanctnca 960
cgntnngntg cnacaccagn ggnntnncnn nngatnaanc nantgangag tccgccgnan 1020
nnnncnnann nnnagcncnn nancccnnnn cc 1052

<210> 4366
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 4366
gntctctatt nnaatcgctt ggctactcgt tctttctgca ggatcccatc gattcgaatt 60
cggcacgaga gtgtatccag atctaagtaa tctcagtgaa ctatacattg cctaaaaagt 120
ggttttgtaa tgatttgtag tcacatttct attgggatat gtagaagaaa aggcaaaatg 180

cttaaagttc cttttatttt ttaaaagcag ctagatagac acagacttgc cacctcatac 240
atctgctcct tggcaacatc aaggggaacg actagccaac atgcctatgg ctaaaaactt 300
tcctttgcag actaaagcac tgcttggtgc ttcgtttttc tacccttcac aacatgtgtg 360
atttcatcta agagatatat acatgtacac atgccctttg tttccacctg gatacaagat 420
cactcatagc taattaggac cattgttttt tgttcatctg tcttgttgca tgaagggaca 480
ttagacccat ttccattaaa ataagttctt ggtgataaac tgtggcactg ctacttcttt 540
ttaaatccac tttatgattt caagatggac acttgtaaga tgactcgaca taaggccatt 600
gcctggaagc cccagagctt tcctctgttt gtatggcccg ttcatgtccc aggcattgca 660
acacaaactc aagatttcac cacaacatga caagcatttt cctactgata ttag 714

<210> 4367
<211> 685
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(685)
<223> n = A,T,C or G

<400> 4367
gcctcacgct nntgtacttt ngttgctgtg ttgctgtgct gtgtgccnct nngatntgac 60
nactacacnn nncnaaggtg cccngcctcc tncnngatng tngnaagnat acttgacata 120
tggagnngca ttngnctcng ccnangtgaa anngattgga ntnatncnna tgcggggttg 180
gaaaanacnt gnnggggnna tatactgtga cngtccgcca cataaatcgg tngccatatg 240
aactatngaa ggctggttaa ngacntannc tggctacnan atngctgatg tanatgnncn 300
anntgngnna catanatctg gntgtcaacg natatnnnaa tntcnnggna cngngaactn 360
atnctggngt gcncacagag ctctcnngat ttacttatca ctatnanata tggggtantg 420
cggaactcta ngcanntant gcttcacntn atnttgnaaa ancatatggc atnntcantt 480
tgcttgtaaa gcacttcatt cttaactgct cctnaggann ggtnttccnc ncaanggnat 540
ntnaaaaanc agntttgntt ccttngntgg cgnaccnant nnttgngann tcttccccag 600
ngnannanaa ggttacttna ggttccannc ctcnttntaa nncnttataa tgaatnnncn 660
ctnaaanaaa annnaanntn nctnt 685

<210> 4368
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 4368
tccttttcan ttcactnnct tttgttcttt ttgcaggatc ccatcgattc ggtgggaact 60
ggctcaggct ggattactct tgctgctgtc ttgctgtnct gtatgccact gggatctgaa 120
cactaaacat tgctaagaaa cccacccacc accaggatat ttggaagtaa cttcacatat 180
ggaaaagtta aagactcagt ctctgagaaa acaattggac tgatgcgaat gcagttttgg 240
aaaaaaactg tggaagatat atactgtgac aatccaccac atcagcctgt ggccattgaa 300
ctatggaagg ctgttaaaag acataatctg actaaaagat ggcttatgaa aatcgtcgat 360
gaaagagaaa aaaatctgga tgacaaagca tatcgtaata tcaaggaact ggaaaattat 420
gctgaaaaca cacagagctc tcttctttac ttaacactag aaatattggg tataaaggat 480
cttcatgcag atcatgctgc aagtcatatt ggaaaagcac aaggcattgt cacttgcttg 540
agagcnacac catatcatgg ggagcnagaa gaaaaggtgt tccttcccat ggatatttgt 600
atgctgcatg gtgtttcaca agangacttt ttaccggagg aaccaagntn aaaatgtgag 660

agatgtaatt atatgacatt gccagtcaaa gcccacttgc cctaaagcat gctagncctt 720

<210> 4369
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 4369
ttanttncat cagctcttgt tctttttgca ggatccctcg attcgaattc ggcacgaggt 60
tttnnttttt ttttttttnt ttttttttnn ggggtacggn agcactttta tttttcctta 120
cacaatgacg tgttgctggg gcctaatgtt ctcacataac agtagaaaac caaaatttgt 180
tgtcatntnt tcaaagaatc gagaattgng tacaaaaaaa accttacata aattaagaat 240
gaatacattt acaggcgtaa atgcaaaccg cttccaactn aaagcaagta acagcccacg 300
gtgttntggc caaagacatn agctaanaaa ggaaactggg tcctacggnt tggactttnc 360
aaccctgaca gacccgcaag acaaaacaac tggttcttgc cagcctctaa agaaatccca 420
gaacactcag ccctgacacg ttaataccct gcacagatca naggctggtg gcccacagac 480
tcaccaagcc acagacttgt ntttcacaag cacgttntta ccttagccac gaagtgccaa 540
gccacacgtt ctaaagggtg aactcaaaga tatgtacagg gtnttaaaca aatccaaggg 600
gaacagttaa cttcaataca aggncaaaat cagcacaagg tntacaatnc agngctgatt 660
taaatacaag ctttaanggc aatttntttt tgaangnttt ttccatttcg ngaggntngc 720
catgangngg gtgcattttg ncnnggggca aatttntntt ttcaattaan ccatgccaga 780
aaangctccn catttgntgg gtccgttn 808

<210> 4370
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 4370
ggnttttaag atcagctact tgttcttttt gcaggatccc atcgattcgc cagtccatgg 60
gcaattggca gatcaagcgc cagaatggag atgatccctt gctgacttac cggttcccac 120
caaagttcac cctgaaggct gggcangtgg tgacgatctg ggctgnagga gctggggcca 180
cccacagccc ccctaccgac ctggtgtgga aggcacagaa cacctgnggc tgcgggaaca 240
gcctgcgtac ggctctcatc aactccactg gggaagaagt ggccatgcgc aagctggtgc 300
gctcagtgac tgtngntgag gacgacgagg atgaggatgg agatgacctg ctccatcacc 360
accacggctc ccactgcagc agctcggggg accccgctga gtacaacctg cgctcgcgca 420
ccgtgctgtg cgggacctgc gggcagnctg ccgacaaggc atctgccagc ggctcaggag 480
cccaaggtgg gcggacccat ctcctctggc tcttctgcct tcagtgtcac ggtcacttcg 540
canctaccgc antgtggggg gcanatgggg gtngcagctn cgggacaatc tggttacccg 600
tcctactctg gcaactccag cccngaaccc aacccccana actgcagcat catgttaatc 660
tgggacctgn caggcagggg tgggggtgan ncannanann tnnnangnaa atttnncttt 720
taaant 726

<210> 4371
<211> 767
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 4371
tgggggtttt atanncagct cttggctttn gcngttnnag aganngctac tngnnctnna 60
gncgagctct acatncanaa ctnatcaatg ctgatgtggc taaataccta gccttttaca 120
tgnctgcccc ttccaggctc acatcatttt atttcttttt tctttgtctg gtggtttttt 180
ntttttgagg caggagaatt gcttgaaccc aagaggcgga ggttgtggtg agccgagatt 240
gnaccttngt actccagcct gggcaacgag caaaaaactc tgtctcaaaa aaanaaactt 300
gcacntgatn aaaaanggtn ttcatgacnn agcatgcnca ttnnctggcg gacatttccn 360
gaancagacc ctgttantcc ttnnacttac ctgctggatt tttnaagcgc taaatttata 420
acttntttga aacaannact ngtgtaattn tnccatttgg gggcaaactn tattcntgtg 480
ancattattn aatcttggnt gtnaatntat tganancccc ttaatanttg caatgggtca 540
aganaagctg ccacggngtn atnatcctct ttanattggg cntccantat tantgatgca 600
ntcatgactt ntggtttnac ntgtntggga tggggccaat aaatgnatnc ttcaagcnng 660
ncaaaaaaaa ncccnggatt ttgattcnna nngggnacnt ggnngtttnc tgacttttac 720
cntaaattac cttngtntgg ntcttcattt aaaaaanaaa cgcntnt 767

<210> 4372
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(830)
<223> n = A,T,C or G

<400> 4372
gcttnanccc tttccatttc caatnntttg gctctcnctn aaacccttttg gancccntcg 60
attcgaatnc ggcacgaggg ctaacttgcc ttgttnnact atngatgttn gngtcctgnn 120
ttcttaacac tttaagcagc tgntctcacc taaaggctaa tagttntaag taagtatctn 180
tttcttttta taatttaaaa attaaaaaat ttttaattaa ctgtttttaa attaaaaaaa 240
attattaatn atttntaata gacaggatct ngctatgctg nccaggctgg tcttgaactc 300
ctggtctcaa gtgatcctcc tgccttggcc tcccaaagtg ctggtattac aggtgtgagt 360
cactgcacct ggccaagttn natncttcag gntacattnc ttcagccact tcaatcaaac 420
atnnaattaa catgctataa tgaatgacta tncttaacta ggctaaccaa atgaaggcct 480
ttggnaactt acctntagtt acanccttca cttctttttt tttgngaagg gaaantnnng 540
ggnncggaca atactcctng nantnaacta tngtaaccct ttncntngac tngaattaac 600
nngggaaatt nggggaaant aattgnagaa ntgaacnngc ttgaatcnaa nannantcaa 660
tanaccntaa tagncaantc ntnttaannc cccnaatcnn ttagncctnt ccaatttggc 720
cnanaagnta anancncccc cnggcctttt ngccccaatc nnnaaattcg nnatnaaaaa 780
tnaaacccct ngcctttaaa ngggnacctt tnacacgaan gggggaaann 830

<210> 4373
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)

<223> n = A,T,C or G

<400> 4373
gtnntttcaa anntnaggct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggtctcg agtttttttt ttttttttt tttggaggag ataaaccaat tttatgtcta 120
tcatgttata caaaaatcta gaaataatag atttgtacag aaaaaaatga taataaatga 180
gaacacaaaa catataattt aaatttggta ttttttcccc catgatatta ggatgataat 240
catttcaaag cacatgtcta gcttcagagt aggatttgtt cactggccaa agcctgccat 300
gaaactatgg ctttcagcat ctgtctgctc tactggctct tgacaaaact cttgaggnct 360
tcaagaaaag taatgtactc ctggtgctcc agggctgtgc tgagctccac cagctcatct 420
gcaaaagtgt tgtccacccc tcggtcggca aggaaatcca ttangtggtc atataaggcc 480
cagtccaagg aatctgtgtt gagtgtataa ttagtatcct tccattcaga ctcgccagtg 540
gactgaaagc taacttccct gatagagaag atgtcctctc agcctcgctt cttgtccacc 600
tcatcctctg gataatgacc gtccacacaa gggccctttt gccatcatca ttctttataa 660
cttcaccccc gaaatttggg aagttgatgt cagttcaggc tcctgnnctt caaccttctg 720
gccttgncga ngg 733

<210> 4374
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4374
tcacagtttt ttcntccccg aancgttnga aaattcctgc aggatcccat cgattcggtg 60
gaactggctc aggctggatt actcttgctg ctgtcttgct gttctgnatg ccactgggat 120
ctgaacacta aacattgcta agaaacccac ccaccaccag gatntttgga agtaactgca 180
catatggaaa agtaaaagac tcantctctg agaaaacaat aggactgatg cgaatgcagn 240
natggaaana aactgtgnaa gatatatact gtgacaatcc accacatcag cctgaggcca 300
tngcactatg gaaggctgnt aaaagacata atctgactaa aacgatggct ttntgaaaat 360
cgtcnnatta aanggaanaa ananantctn ggatgacaaa ancatatcgt aattatcaan 420
ggaactggaa aanttatgct gaaaacacac aganctntct tctttactta acactagaaa 480
tatanggtat aaaggatctt catgcanatc atgctgcaag ccatattgca aaagnacaag 540
gcnntgtcac ttgcttggan agcaacncca tattcatgng nagncanaat taaaggggct 600
ncnttcctna tggaatattc cgtatgctcc nattggggct tncncaatga angacntttt 660
tntncnggat gnaacccanc tatnnnaann tggtntacaa cannntatat nntttnnaac 720
ntttnncccn nccananccn acncnttggc cnctctaaaa agnantgctt ctngtcccg 779

<210> 4375
<211> 1165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1165)
<223> n = A,T,C or G

<400> 4375
annaaancac acnnnccaca ncaanaaana canncanana nncnannaaa cacaanacna 60
accncncnnn cncncnacaa acnnncacan ncnncancnc ncncaannng cgngcttcaa 120
cnnatggnaa gccctnggcn acacgnanna acagcncgna ancnacgcna cgcnccnann 180

cngannnaan acacccanan nacacgagag agnnancnaa cacnannana cnnacccgcn 240
ccnanaaanc nggnccnnga cgangccgac gnacacancc acaaaacncg acaacccena 300
acaaaangca aaacgcgnaa aganccnang acnannaaaa agncgccang anancaacna 360
gnacacacgg acnaaccngn accngcanac ancnnnccac aaaccncgag agcnaccccn 420
acgcagcanc ncnnccgcaa anngnnannc nacacnccna gccccagann angaacccag 480
canccnnaan cannnngcnc nacgaacaac aacnnanana nnaaccccca gacncacaca 540
accagnnncc nacgnganac gncnacccnc accncacngg aacaananaa ccaggccncn 600
aanagcgnna acaacccaaa aagnaccccc ccncanacan caacagnana cacacacccn 660
cncgggacaa ncanacncac nnaggaaaac cccaannggn gncaaatnan ancccccaca 720
acacagcacc aaaangccaa ncnccaaaac aaggcgnaac nacnncagcc gcgacgacac 780
aaacaccacn naancnnaan cannnnncag ggncaaacan ngcaaaannng nnggcgacac 840
actanancng ngacacccca ananaatnag ccccanggan cgacacanna acagcgagcc 900
gaanccggna aanaaacgna aaaaccnggc ncaccnacca ggcacnaccn caacaccacn 960
gcaaaaaacc ancncccnaa tcnaaacacc ccaagaannng ncacacacng nncacaaang 1020
nacccncnna anaagggcca anngccccan gaacccccca cancnnnncc ncangaanaa 1080
naggncccna cncanggccn acnncaanga cacacnaccc caagaannca ccacagcnag 1140
anaancanca ccccancann gaanc 1165

<210> 4376
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 4376
tttnacactt tngcnacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gttttttttt ttttttttte acgcttaatt cactttattt ttcttgtata aaaaccctat 120
gttgtagcca cagctggagc ctgagtccgc tgcacggaga ctctggtgtg ggtcttgacg 180
aggtggtcag tgaactcctg atagggagac ttggtgaata cagtctcctt ccagaggtcg 240
ggggtcaggt agctgtaggt cttagaaatg gcatcaaagg tggccttggc gaagttgccc 300
agggtggcan tgcagccccg ggctgaggtg tancagtcat ngataccagc catcatgagc 360
agcttcttag gcacaggtgc ggagacgatg ccagtgcccc tgggtgcagg gatgaggcgt 420
accagcacan agccgcagcg gcctgtcacc ttgcaaggga cagtgtgggg nttgccgatc 480
ttgttccccc agtagcctct gcgcacgggg acgatggaga gcttggccag gatgatggcc 540
ccacngatgg cggtggncac ctcctgggag ccacttaaca cccanaccga cttnggccaa 600
aanggcctta aaccggtaaa aaggccnctt tnnttgccgt ttttnccnat aggnttcntg 660
ccccccntgna cangctttna caaaaaatct gnnnttttatt tanaaggtgg gnnaaccccc 720
ccnng 725

<210> 4377
<211> 725
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(725)
<223> n = A,T,C or G

<400> 4377
tttnacactt tngcnacttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gttttttttt ttttttttte acgcttaatt cactttattt ttcttgtata aaaaccctat 120

gttgtagcca cagctggagc ctgagtccgc tgcacggaga ctctggtgtg ggtcttgacg 180
aggtggtcag tgaactcctg atagggagac ttggtgaata cagtctcctt ccagaggtcg 240
ggggtcaggt agctgtaggt cttagaaatg gcatcaaagg tggccttggc gaagttgccc 300
agggtggcan tgcagccccg ggctgaggtg tancagtcat ngataccagc catcatgagc 360
agcttcttag gcacaggtgc ggagacgatg ccagtgcccc tgggtgcagg gatgaggcgt 420
accagcacan agccgcagcg gcctgtcacc ttgcaaggga cagtgtgggg nttgccgatc 480
ttgttccccc agtagcctct gcgcacgggg acgatggaga gcttggccag gatgatggcc 540
ccacngatgg cggtggncac ctcctgggag ccacttaaca cccanaccga cttnggccaa 600
aanggcctta aaccggtaaa aaggccnctt tnnttgccgt ttttnccnat aggnttcntg 660
ccccccntgna cangctttna caaaaaatct gnnnttttatt tanaaggtgg gnnaaccccc 720
ccnng 725

<210> 4378
<211> 1050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1050)
<223> n = A,T,C or G

<400> 4378
nngnnncccn nnnnnannna cgnngcgccn acncncgnnn gnangcgccc cnncgcaccc 60
ganangnacn cnnncagngg cntncnncan angacggngg nnnnnncaca nnacncncgg 120
nacgnngncn ccgangnnnn gccgncncng cnnncnccgg ngcccentttn gaaacnctng 180
ggaaatccga cacnccnctc gngancagcc anacccnnac cgnccgggga ngcnnaaanc 240
nncacggcan ngngncgngn anacnancnc ggnnncgcnn ggnccngaca cgnacgncgc 300
ccnccngncc cngncggcgn cangngaaag ggngccgngg cccngncgnn cnacncncgc 360
cagnnannce ngnncgcnng cacngnnccc ngccgccncc nnncgtcncc acncnncgcg 420
nnanccngcn cggncagntn cgcagagcna ngcccgcgaa gaaaaccgcn ngcgnngcgc 480
cccacnggcg acnacgccag cncnccnngc ntagnggnca nacnnanccg ngcggnngng 540
ncnnncannn gacanangcg caccacggcg gcnaggccna ggacgaanng gcgacccngc 600
gagccnanga nnanccggna tngccanaac cncaacggcn ncngnnacgc gnnacngggn 660
cnaatncaat cgcnnganan gacacancag nagcgcctgc nnncgcnnan ncgnnacact 720
cacacnncac cngnggccct caagngagcc gccantngcg ngnnncaaag cangcanngg 780
accatannng naacaggcac aanggcantc gcacnanggc nncgnggann caccccnata 840
gcnacggggg agcangaacc aaggggcggn cccgtcccna nggcnnaagt cggncaggct 900
gcacnggncg gncncannaa gacggnacnn nngnncaccg ggagggaccc accgcnccnc 960
acngggggnn ncnanggncn ccacagggna cngnncgccn nncccnnagn cccncanggg 1020
nacccgnaan ggnaaggcnt gggggccccg 1050

<210> 4379
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 4379
tntcaatnct nggctctcgt tcttttgcag gatccctcga ttcgaattcg gcacgaggta 60
ttcagcttgg ctggagcaga ggcaggagtg gggaactggg gacnggtgan actagaggtt 120
ggcngaaacc agccatagta gtttttgcct catttggaca acaaggagcc atccaagaga 180

gagcggtgaa gctgatggtg acacagccat ggcgcattga aataccccca gtggctgtgt 240
tgtagggtat attgggttgg ggagggacaa ggtcaggagg catagactcg acatcatctg 300
atgtgattca ggacagaatg gcgagcctga agtgaagtgt ctgtaggata agttggaaag 360
gaaggaacca atatgagata ttaaagaagt gaaagctata ggtcccagtg ccttaataaa 420
ggtaaggagt aagagaagat tcgagattga ctcccagact ctccagtctg ctggacatgg 480
gagatggaat agaagttgat ctcggtgtgg tcanaggaga gcagttnctg tgttgagcat 540
ggatagcctg cgntccccaa gagaangagt tccagctgnc ttgtaataag ccaangcnna 600
ttatggngna gatccaccct tgggagcnac ttccttaggg ggccnacnct tnntagcccn 660
ttanttaann anttcccccc cctanatnnt tccttnggnt ttaaanctng naaacttntn 720
tttacnnttt c 731

<210> 4380
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 4380
tntcaatnct nggctctcgt tcttttgcag gatccctcga ttcgaattcg gcacgaggta 60
ttcagcttgg ctggagcaga ggcaggagtg gggaactggg gacnggtgan actagaggtt 120
ggcngaaacc agccatagta gtttttgcct catttggaca acaaggagcc atccaagaga 180
gagcggtgaa gctgatggtg acacagccat ggcgcattga aataccccca gtggctgtgt 240
tgtagggtat attgggttgg ggagggacaa ggtcaggagg catagactcg acatcatctg 300
atgtgattca ggacagaatg gcgagcctga agtgaagtgt ctgtaggata agttggaaag 360
gaaggaacca atatgagata ttaaagaagt gaaagctata ggtcccagtg ccttaataaa 420
ggtaaggagt aagagaagat tcgagattga ctcccagact ctccagtctg ctggacatgg 480
gagatggaat agaagttgat ctcggtgtgg tcanaggaga gcagttnctg tgttgagcat 540
ggatagcctg cgntccccaa gagaangagt tccagctgnc ttgtaataag ccaangcnna 600
ttatggngna gatccaccct tgggagcnac ttccttaggg ggccnacnct tnntagcccn 660
ttanttaann anttcccccc cctanatnnt tccttnggnt ttaaanctng naaacttntn 720
tttacnnttt c 731

<210> 4381
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(890)
<223> n = A,T,C or G

<400> 4381
cnttcttnan nnnatnttcg aagnnncnnn nnncntntna gttnncnnnn ntccngttct 60
aatgcttggc tancnnggcg ctcnaacgcn ctttcaaacc nagctctngn tcttttgcag 120
gncccatcgn tcgaatcggc acgaggctgn ttcctcaaga aaatgaagag ggnaggatgg 180
ctcagggaaa gttnatcaga gggnaaatgt cactctgtaa agagtaaaaa atttaggatg 240
atgatncnga tctgggaaaa aaaggcatag tgaagaccac ttaaaaacaa acaataaaac 300
ctatgaaggt gcatgctatt tccccanagc taaaaagata agtgaaattg tgttttgaac 360
tcttaagtgg aggtgaagca caatttatta gccaccaacc acataagtga ttatgaagta 420
actgagaaac aggtnacatt ttttcccaca tggacaaaac tttctctttc tagaatatta 480
agtatctatg atnagaaatg aagtagcatc tcaagcagtt tataaatcta ccagaatatt 540

agaatcacct gggacctttg aacgtactca tgcccnatng nctacctnta ttcatttntt 600
tttttcgtaa gatattgggg acttcaactt cnggncttaa aangatccnt cccacctccg 660
gccctcctaa aagttgtnag ggattntcaa ggccntgagc ccncntgtgg gcnctgccct 720
tctnatggtc ntgcttttng acccaattta natnnaatca tcttgngngg ttggnnccnc 780
tgggcctnta aagnatnttt taaaaanttn tccnaanggg gncnactnaa tttcttatcc 840
tatcgatttg tnnancccnc nggcctaatn ccttgnnnat ctctttncct 890

<210> 4382
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4382
gggggtanga nccctttgan accnattgct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgaggaagg atccagcatt cggaggcaaa catgaagctc catcctctcc 120
aatttcgggg caaccatgtg gagatgatca aaatgcttca ccttcaaaac tctcaaaggg 180
aagagttaat acagagtatg gatcgtgtag atcgagaaat tgcaaaagta gaacagcaga 240
tccttaaact gaaaaagaaa caacaacagc ttgaagaaga ggcagctaaa cctcctgagc 300
ctgagaagcc cgtgtcccct cctcctgtgg agcagaaaca ccgcagtatt gtccaaatta 360
tttatgatga gaatcggaaa aaagcagaag aagctcataa aatttttgaa ggtcttggcc 420
aaaagttgaa ctgccactgt ataaccagcc atcagatacc aaggtgtcca tgagaacatc 480
aagacaaacc aggtgatgag gaaaaaactc attttatttt ttaaaagaag gaaatcatgc 540
cagaaaacaa agggaaccaa aaaaatctgg ccaccgttat tgatcagctc atgggangca 600
ttgggaagaa aaaaagtggg ncagaanttg aaaaataatc cttcnggagg gaaaagctta 660
aaggaaagcc aaaancaagg gggaattnct tttgnaaaag ccagtttttc cagaaaantt 720
cggaaaaacc nanggaggaa ccagccangg aaaaagattt ttcancccga aatttggggc 780
cannaangg 789

<210> 4383
<211> 1266
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1266)
<223> n = A,T,C or G

<400> 4383
angntttncn ccccttttt tntgaaaaac ccccccttt cgnanaactn ccccngtctn 60
cctgatnntn gcgangnnnt acgcccatat gggatttctg taattnnngg cctaccggca 120
gnagangatt atngntatag naaaantttg tggtattgtn tctcntgtca tccgnctggc 180
ncannnatct gtnganaanc ncnnnnntnt tgggttacat nccanntctn agttnaacgc 240
tgtaaatcnt ngagatnncg tgngnacgac ancngcctct ntcatggctc nnatnacttc 300
naccanaana tagtatangn ngcnnnttg agcagnnccc cnatcntncn acgacnantc 360
gctaanangc ttctacgatt cnnttttgt nnnactngtn cctttannat ccttnncnnn 420
taangccnan ttgtngnana ctancgcact ntgcaaaatn gntanttntt ctaactttna 480
taaaatgnna gtgcnaatac ngntttcann nttannnnat anaaaaagga antngantcn 540
tgtntctncc cctttcangt anangnncnc ctagnnngat tcnntnngtn anntattctt 600
atancgcgng gtagaaangc ctactttgtg ngtannattt ctcttctatt natnnngttc 660
ctctgttnta cntnnntgaa ncnntttagn angaaggacn gnanaaacan naccnacngc 720

nnnaggntnt tnnngcntan aatanngant acttctnang nccnnttcac tttcnatagn 780
aaccctccgt ntgtgagncc tttctanttc tnatacnaat actctttnga tncgccacan 840
ttntnnntan ntntnnnntt tnntnagtnn atgttnnncc agcannttct cnntnccttt 900
ctnnnacnaa ntntgnaaan nngctttctt nnnnacntag tngnannnat caanccctnt 960
ncnctgtgcg tcntnanata ttncnnntct tantcnnncn ncntanatcg nggcntanat 1020
accnactnan ntataatatg ngnnctngtc gntnatttnc aggcattctc tgngntncnt 1080
ntcttatcnc cntcgtntcg tgtncnngct agnnntanta ntancgtnan ncatntcagt 1140
atacnntctn tcntgtgngn gcatacncta nnaatntact gntnctcacn ngcntgacnt 1200
acgntangan tngaanggag tgcccgnnnn tgcnaatnta tctcncgcac ctntaccnac 1260
tntncn 1266

<210> 4384
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4384
aggggtnnnn nnnnnntttt gaaaggcggt nnnannnntt nnnaatatna gctacttgtt 60
ctttttgcag gatcccatcg attcgaattc nncncgagcn gggncgnang nagccatggt 120
gcccagccgn aatggcatgg ncttgaancc ccacttccac agngnctngc agcngcncnt 180
ggcnncntgg ctcaacnagt cgntcctgga agaatccgna nacgtatggg cnggacaagt 240
cnaggcgcac cgcatngatt gacacgccnn ntgtcgggat cccatgnggg tcattttgcn 300
catgncncan ggttcgntgc nacacanagg tgctcagccg agcnnggatn tagnctggag 360
gagcttaggg tgnccggnnt tcacannann gtggtccggn ccattgncnt ttgtgtngat 420
nngnagaggc anatcangnc cannngnttcn ctgcatgcca acgtgcagcg gntgaaagan 480
tccgattcan actgatnctc ttcnccncga agnnttcngt ncctanaacg gagacanttn 540
tgnttaaaga actgatactt gtcanncngc tggaccggan cgnttatgcn cttcctggaa 600
cgtnttnnnn aagganaaaa ctntaattaa tactttggga anagaanaat ttnanagcct 660
tcnatangtt tcganttggt ccgtgccaan nggcccggtt tttttnacct nactnnccaa 720
nanganccca agggaagccc ttncaacang gatngtnaaa agaanaanat taancnccnt 780
ncntg 785

<210> 4385
<211> 967
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(967)
<223> n = A,T,C or G

<400> 4385
nnnnnncann annnnnnnna ngnnnncnna ccannncnnn cnacnnagng nncccgctcc 60
aaagccggca anncgccgcn cngcnnnntc aaaccntgca ngcggcacnn gnngnncccn 120
acgangcgcc agcgcgcgng anacngngct gccaagaaan gngngcncan agnccggcct 180
ngagaacagn acagngganc gtcanaagca gngggangac agacgacnga ngaaacntag 240
agcccagggn nagcgngacg acggaccagn tcccaaaggc nggngcccaa agcngacnag 300
ntnnaggaag aaanacgngg gacacaaccg gagacanccg annaggagcn gacnganntg 360
gacccanang gcaagaagca ccnaaacang ncacccacca nacgaccggg gaaggcacga 420
acggtcngag cacgagnaaa acgngaacna ancaacgcgc acacannngng aganagaaac 480

accncnaaca ancnaancgn gggaanangn agaccggacn cagaagaang gcncaagann 540
cggcanngaa cccnnaancn gacggaannc agggncggng ccaacaagan ggcnangacn 600
ggncaannna nggccggcnn ggaaaaacga ccaagnngnn cnccaaaaaa gacanggcaa 660
aagnaaacgg gcaaagggca ancncnaagg nnaagcccna naacgcgcan nnggagcaaa 720
angnnccaag ngaggancna aaganggga aaggggccca cnaagngggc ggnnaanngg 780
cgaannnaaa acanagggng ggggccacng gnaaacccaa gcgcgaaann ccnggcncna 840
agggccccga aaacangggg ngacaaaaac ccnngccaaa accnnanggg ngggncccat 900
cgngannaca naaggngaac cgnccaaggg ggcanaaagg aaaggccatn nnaangnaaa 960
agagccg 967

<210> 4386
<211> 1118
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1118)
<223> n = A,T,C or G

<400> 4386
tnggctttna atnccttttc nattccaatg cttggnnact ttcaacacga tcccatcgat 60
tccgaattcc gggcacgaag caggagctgt gatctgcccc caggtattct gacccccaaa 120
ctggctctca acccatgttt acatggatgg aaaanggaan agggtgactg gtngtatcaa 180
gctcttaaag ggccttactt ttgggtggaa aatggggacc ctaaaaattt ganttggctt 240
acttggantt nccttnctgg tcaattactg gaaaaatttg ggcaccttca nttaanttta 300
aatnctttt ggaaactttt taccattaaa ccttggnncc tttaaannnt anntatttng 360
nccaattgna ngaaantntt atctcttnna ttattcatta aaaatantnt tnccnnnagt 420
ctccnatctc ttttgntaat aagngncccg gnatnctcaa ntntacnata tgtnnaagtn 480
ntnagtcttn acanccagat tntnttnttn anttataant tgntnananc gnttnannta 540
nnntatnngn naacttcnta ctggtccaan gnntgtnnga atgttcanan ttaactantg 600
nantnttnga aantacaact nggtnntanc aaancntcgg nannngtggn canttatncn 660
nnngnanaat gnnaaatgnn gnantcgcan gnttccnang nntctananc cnnnaatctc 720
nangcgnann canttcatnn ncggttacct ccnatnagtn acctcncgna ngntatatgn 780
agncatgntc ttntgttagc aattgaannc atcnnncnat cnagantcca natantaatc 840
ttnncgntaa ncncgcttna nngacgcntt gntatcccnn tcgngatgtt atatntacat 900
nnatacannn tgnntganaa aatacngtnc ngntcnngga naatctnagc tggtnctcac 960
agnatcntan cgtgnaatna ccntanattg tncncccncg cggngtgtcc canantcgcc 1020
nntagagcnt catntcnngn nattngacgg taatnctgat atnttntctc acncagattn 1080
cnnctaataa aagngnnnta tttgtagaaa tgacnccg 1118

<210> 4387
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G

<400> 4387
cgcctttaa gctncttgtt ctttttgcag gatcccatcg attcgaattc ggcacgagac 60
tctggcacag ccagagtcat tgttctttca agcagtcatt catatcagcg ggntgccatt 120
nctgntttgg agcactagnn naaaatagct gcactatccg gngcgnntat ncnaagctgc 180
ncgcnngngg cttgcnttct tgngggngnt tttnttgnna atntcaaaag tttctaatcc 240

tnatgccnct ttttgggnaa anncaagann aagtcaatcc tnccccttggg gatccngngt 300
tccccnttca atcacgattt gtnggnnntc acncgattta tntttacnan gacacaggnt 360
tattgancng ttangttntt aacatctngn aanctnaant gtngctgnat gnaatgngcc 420
tnnncanttc ccatnacntt tgcccctncn ngnggngccc tancgtngtg ngnntnaatg 480
ccnnan 486

<210> 4388
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 4388
tcnccttttng aaatcncctt ggatnttgct ttcnaatnnc tggctcttgn tctttgngca 60
ngaatccnnc acgagggann gctgtcngan antctgttnt anacggnaan nccctgaatt 120
nancatcnac agtgctnntc ttngaancan nnntnctaaa ntcnntcatg anatggaggt 180
gattaagatg gcccttgctc ntggatgnca nacttnngnc agaatnnacc tactntgacc 240
ataggatact tttntntgta ggtgtaaatg gttctnctnt actaatcnga nnnggannat 300
annnatacaa cnttntangg gatccntann cannntnggaa cagcngtnga tgnccncttt 360
nggagggtat tcatntnnca ntcntgatna aanntncctn attnttntnn ctactgangc 420
aacnnntgca nnaagtgtat gaanggtgcc ccctgtncca atgatnctgc antgctgnat 480
ncagcctttt ctgggagcac cggtccaagc gttccggaat tgattatccc natcatttnt 540
ganntgtnac tggaaaatnt nngnctnatg cantnaaaaa tgtacttggc ttgctttttn 600
ncaanngntt atttncntct ttgggaagta ataaaaccga ttcnacccgt ngaaaccgtt 660
aaccaaaatt tcntggtatt ttaaggnctt tttttcctgt tntganggtc ggagtcnttg 720
gnnccnannt attttttgg ggtttttgng naagaatttc ctaaaantaa annttttntn 780
ctacccattt ttnananata aantgannta anaaaaattt cctgcccttt tnaaaacttt 840
nt 842

<210> 4389
<211> 628
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(628)
<223> n = A,T,C or G

<400> 4389
nnnnntannn nntcntnnnn annntntanng atnntntntt cnnnncnnat nttannattn 60
nnannctcnn nnnntantat annagnnnnn nntatntnan gantnnnnnn nnnnnatnan 120
nanatnnnnn nnncnnnnnn nntntttcat tttngaaacn cccttaccgt gccgcnttng 180
ccagtatccc atcgnnncgc aacnacccct acnnaaaaac tntaaanaaa ntggctagca 240
acgggttntt tcatcncggt gtctcttnat ntaagtttnc taagttaaga aaagctggtg 300
acatattnat acgtntttgt gcaaaaataa atgaatggca ntagnaccta aaaanatctn 360
tattatgtac ttntgtgtga aaaagtntgt ataatanttc cctnaaatat gcattatttt 420
acttgtgagt tntttnctga attaatctga aatgtncaag ccctggattn gctacagagt 480
gagaagttat ngctattngt ttcttatttg taatgcttgg aaatgctgca caaatcacga 540
agctcttacc atgggttgaa caaaaaaagg ggaaatgggg aggggaaaag ggtgggatag 600
cccagcatgc ttgtntggta tattccag 628

<210> 4390
<211> 676
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(676)
<223> n = A,T,C or G

<400> 4390
atncttggct cttggtcttt tgcaggatcc ctcgattcga attcggcacg aggagttttt 60
ttttttttt ttttttttc atttttataa aaatgtgttt tattgtttta aaacaagtct 120
ataaaagtag aaatcacatn caaaaataca gattactctg acatgttggc aaaatagctt 180
atggctggac ttgagtttgg aagttctgta tgtttgaggg catccgatgt cagagtccaa 240
ccggatccta accccagctc ttgtcactaa tagtaaagtt tcaggtatta tatcatagca 300
ccgactgagt gataggtgtt ggaggtagtt gagctggaaa aattcctgaa agcagtcatt 360
ctttagcatg acactatcac ttaagtctag atggacaaga ttggggcatc ttctaactaa 420
agtagagaga tctgatttct ggagattctt tctgtagccc gctaagattc agctggggtg 480
atggtctctg acacatgcgc aacagcacct gtcatgcttt tcaagtggaa tcaaacacca 540
ggagaggtca ctatccagct ggacagttgn tnccaannnt gcaggcaatc aggaatccga 600
cccccaaagg taatccccta attgagtttt gcanagnttg catggaccca aaccgagctt 660
cagcttaatn tgactg 676

<210> 4391
<211> 946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(946)
<223> n = A,T,C or G

<400> 4391
ttctaatgct tggctctcgn ncttctgcag gatccctcgt tcgaattcgg cacgaggntg 60
tcacangnnn nntgtntcca caggcaccac tngctangtc tnacctgtgn tgnctgttnc 120
aacncggggc tangnangct ngtattccac ntggataact aanccntggt cataccgncc 180
ntgnacgtgg naccngctnc naggagatgc aacnanacat tctaagatgc ttatgatcct 240
tacntgtatc tttcntnttg gngattcttt tanattggat gttgcaatgg agntgaatna 300
ncttnnnnnc ngctctnntn annnccnntt nnatangnan naactttncn nnnnactaaa 360
tngnccactn atactaatgt gcttagatgc atatnttacc ctcttnaagt gntaaaaccc 420
tttagaatcc naaggaccag ngtcaancgc aacanncttc taggacctat gcgaagctnt 480
gacttgancc ttgggggatc ccntgngngt tanctcngat natgtttcgn ggaccngcnt 540
ngacncatnt anagtnttgc nncattggna ngnccctgtt aaatccccaa ntnggaaanc 600
cnnttagggg ttttanangc ttnnggaacc ccnnccccgg gntctttgtt gncccccgat 660
atgnggggnn aaaaccggtt tcaaaaaaag ntcnaacttt ggggttnant ttaaaatttt 720
nggggnccct tttggangta accctgngna aggtgcatan atattgggcc gggaantttn 780
ttnggtgggg ggccancctt nggngggctn ncatttanaa atggcttaaa naaaanttta 840
accnccaann antcnnatnn ncnanaaacn ncnttccngn acaanactcc cttnnaaanc 900
nnccnnntcn aatggtcaaa aantnttcaa ggancnggnt tanaan 946

<210> 4392
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 4392
caaatcnntg gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggtt 60
ggcttggtgt ggatgcaggt tgctctcaag gaggatctgg atgccctcaa ggaaaaattt 120
cgaacaatgg aatctaatca gaaaagctca ttccaagaaa tccccaaact taatgaagaa 180
ctactcagca agcaaaaaca acttgagaag attgaatctg gagagatggg tttgaacaaa 240
gtctggataa acatcacaga aatgaataag cagatttctc tgttgacttc tgcagtgaac 300
cacctcaaag ccaatgttaa gtcagctgca gacttgatta gcctgcctac cactgtagag 360
ggacttcaga agagtgtagc ttccattggc aatactttaa acagcgtcca tcttgctgtg 420
gaagcactac agaaaactgt ggatgaacac aagaaaacga tggaattctg cagagtgata 480
tgaatcanca cttctttgaa ggagacttct gggaagcaac ccngatcatt tccgcacctt 540
nagccncatt tagaactttg acnattaaaa cccccagtgg gaaatttgaa ccagatgggt 600
gatananctg ccacttttga aaagacaagt ctttgggtca antcnccanc ngaccngntn 660
ccgtaaaaat ccaaagcttt nnggaaagaa gaattnttnn aaattcttag ggnttccaac 720
c 721

<210> 4393
<211> 1102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1102)
<223> n = A,T,C or G

<400> 4393
ggggggngn nngggggng nnggnncngg ggggncngga gggggnnnnn gggcaggngg 60
agggtnaanc cggtnnggnc nnngnncnnc ctagngaacc cttggaaann cccgnagcag 120
gnccaacgaa gcgaaggcgg cacgagaagn ggaccaacgg gccancnggc nnggttnntg 180
gggccaagac gggggancnc cncnnggcng gggggggnaa ggaggggcgn nccngggggg 240
nagggnaaaa aaancnccng agngggnaaa gggannnggg ggnanggggg ncgngggaac 300
cnnagaggaa ganaaggggg gcgggcnana nggggngnan aggggnnagg gggggnncng 360
nncgcncggg anngannnnn ngaggagacg cccgnggggg naggggaaag cagaaggggg 420
nngcngnnca ngggggganc angggggnga cncccggang ggccnggagg gggcgnaaaa 480
cngnggggcc ccngggnggn ccnggggggag nngagancgg aagngganan nncagnaagg 540
aggngngnnc gnggngggggg ggnnnaaagn ncagggagcc cngnnngnna ggnngccnng 600
ggggccnggg gganagggcc gacnagnggg gggncangng nngggggggng gnngcgnnnn 660
gngcaggngg cgangcangg gnngacggng ggaggcacgn gggngnangg ggggcgaggc 720
ngnggnggag ngncgcgagg nngannggggg ggggggngaa gggngncggg ggnancnggg 780
gggngngggn nagggnggggg ngcgnnggggg cggcggcnag gnnggnngnn ggggagggga 840
ggannggggc gggaggngnn ccgnnnggcg gannggngan gngcgggang gnngcgcagg 900
cgngnggggn cgcgggnggn ngngggannng gggngagngg gcgnnggggc ggancggggn 960
gcnggagang aggaggnngn ngnngggggn ggcgggnggn gcngagaggg nggncacana 1020
ancgcgggng ggnggngcgg gccgggggga nagnnggggg aggnagnggn ggangcgcga 1080
gggnnggggng ggaggggngn cg 1102

<210> 4394
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4394
cnacangnga cnggnnntgg nactcgctct ttcccnggca tccctgnaga canagatgnn 60
naaggggaag angntngaaa accaggntaa aantttttan gagaaaggca gaggatgctc 120
aagggnaann aganggaaat nnagntnacc ncnntnncgg nantggncnn tatgnnnaan 180
ncnncgnata annngntctn tntgnngaag acagatccca gccttggatg gcttgatagn 240
cgatggatgg aaancgatnn gggncatttt aaanaggcct nnangttaca ttcnnagnat 300
atnnntaaga gatagngnat ncaaactntg atgaangtgg tgatgcagga ctgaagcatg 360
gtccactaca atgaancttt nttccnntng gncaanggna tggntgatga tcccatcnca 420
gaggatgntn ctgnaccaga ggngcctccc attntcgctn cnaactgccc taactanccc 480
atantgagnt aacatgtccc ttcatnttgt tacgtctatn nagacaaatg ctttntcttt 540
nncttgcttg acccnatctt gncttnccnt tcagntaant nnagaacaca ttnttancnn 600
tcnntggcca tannggttct aacttnaaac cattttacct nttaaatttt gtgattatag 660
tnngtggnnn tncntaaggg naanaagatt gcctttcaac ttttgngagg ggaatttcgn 720
gnttgngtaa antnattttg tccaaatctt ttgaattttt an 762

<210> 4395
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(578)
<223> n = A,T,C or G

<400> 4395
gcncgncgaa nnannacgng nnanngcccg gnngaannan gcncnnngan nnccgaaann 60
aagangnnnn nnannnnnnc nnnnnnnnnn nnnnaaacct tgaaanccgc cgnnngnngg 120
ncnctcggta tcgcanaana cacaangggg aggaagggnn gncaanncgg gttggggtgn 180
aaggggaaaa ggacacgaac nnnggntaan ggnagcaaga nttacacggg cganggganc 240
cgagccngtc ccctttggag annatccccn anaaaanatn ganagnggnc nggnggggng 300
nnacaggaca cgaccgcggn naancnngga antggccttn ngccggcaan tccagaacta 360
angggggnnc aangcaggga gnnnacaang ncgnnngang nggcagnnna gccagagana 420
nntgacagaa gagncngggc ngtgcgggca nccngnagaa aannngccan anccaggagg 480
cccgnacntg gngnaaccca cgnaaccncn ggaggncaga ggnganagga acacnggggn 540
gnnggancag gagggcnnga gggnnacaag gnanagcn 578

<210> 4396
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(898)
<223> n = A,T,C or G

<400> 4396
tnncctttct aatgccttgg atagttgctt ncnatngctg gctacttgnt cttntgtagg 60
atcccgngcn ngatnnttat gactgnnccn ntnnnggcng atcntttgcn ngnttacnct 120
ngtanaccng tngcngcggn cgnnngaagn cgtcctggga ancagataan acngctgcnn 180

ggctnggagt gnncacccgg tacacantnt ttatttannn ggccanctnc cactgatgaa 240
catatantcn gagtgactgc tgaaatagcc tttttggatt gaacgcccac gacagtncat 300
tangtntcnc ttntatcatg ctttctntac tgnnatgagc ttcactgaac ggcgtgaaaa 360
acttggaana tnnatnggac atgctgtaan atnggacata nattttttata cggaaaactt 420
naagtgcnca cagttgaaag ccataatggc atcccataga gaggctnttt tgaactttgg 480
gatgctttat tgnnccaaag aaagatncag atttacctga aancttgtgg gtttnggaca 540
ccttttntgnt ttntaagcct nntgaacaan tttttaanac ntttgacntt ttnnaaaaac 600
nttgncttac cnagnggtna cnanngaana atggccnttc angggaaatt tctccngggn 660
tttccccngg aaaaaanant tncnnnccag ggtttttggg aggggattcc aaagtntttt 720
ntaanancng gggggtttnc naaaaaaaat gggggcnnca atnggntttt aganggggaa 780
caaaaccnnt cnnaagccct tttnntcnaa ntntcnncct ttngtaaaan gncttccana 840
ttatttcttt tnnctanggg ttttcttttt ttgnaaaana aaaatannnc ttttttnt 898

<210> 4397
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4397
gcttacccct ttctattnct tggatgctct tncattgtgc angatcccan cnntcnaatt 60
cggcacgagc agagctgtga tctgccccca tgtattctga cccccaaact ggctctcaac 120
catgttnaca tgatgaaaag aagaggtgac tgttgtatca gctctaaagg cctcactttn 180
ggtgaaatgg gacctaaatt ngatngcnta cttnattnct tgcngtcnat actganntng 240
gcactttata atttnaatac tattgaactt tcaccatanc cctgtcctat aaagttgact 300
tgcaaatgan gaaactctat ctcttcaata ttatgnacta tatccaagag tcacaactag 360
tgagaaaagg acangntcta actaccaatg ngaggctgtg tcttcacacc aattcaacag 420
agtatcttgt aaatgntgag aggagaggta ctttaagtca tgggtgtcta tcatangtgc 480
ttnacaaaac nnnttgacaa ctgattgggc cttgaggtat gaatggantt agccaggcna 540
ttnaattcga aatncgaagc ttcaangaca gatttantaa cnctttgnga gnagttgaaa 600
tgcagcaaga tgttacgaca anttgntact gnnccatggg aattttacca aagttgtgna 660
attgnagnna antgctnatg gaaaccttga aaggatntng ctttgnggcn cacgcttgaa 720
cnaangnctt cggantgcnt annaaaaagc ccnaatgcnn ntccancnn 769

<210> 4398
<211> 1466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1466)
<223> n = A,T,C or G

<400> 4398
cnncntcaat nanntanntn nnancantta cactncancc nctataatna atacatatcg 60
ggggatntta tctcncctcc antancnttn tactnctccc cattatntct nttcnccata 120
catattctnn taanctnnat ntanatcttc aantataata ncnacccaat ctatnactac 180
nnntacttna antctccact nttncgncnt nccannccnn tnatattatn ccnattnaat 240
cttnnccncc nttanacctc ttcntttacn ttaaactcat anctcattnt naanannatc 300
ntcnttctna tctcaaatcn nntcnnnaac ttcatttcta tttnnatact tttcncnata 360
ancttcantt atnaatcaan atnnnctttn tnntanctcn tntnatntnn cattntcctn 420

ccantantan ctntnttaan acattcncnt ntctatcacn nctnaaccta tntanttnta 480
cnttntatct ctnctntctn tcctactcac tatacnctca ncatatactc tacnanatat 540
acattatctt cntnccatct cacattnatc tatntctcac nnnaatatnt tncacctcca 600
ctntctantc tatttanctn tcantncttc tccctctctt ntntcttann tccttnccat 660
ntctctcann ctnctcntca tatgatcact ntgnngttct atatcntatn canactcaca 720
tcgatttact nacnntanan accctantnc tatatactat ntaatnntca tcatatntcc 780
aatattcnta aaccnncaat tactcccact antatnttnt cctactttaa naatgactng 840
gtaatcatna cttaatactn ttttctcatn accatnttac cnnntactnt nactctcttt 900
atcatcatnt ncnttanatt tcantcatac ttngtaattn tttntttcnc antatatnaa 960
nttatcnaat tttaccgtct acacatacnt cattatcatc tatctctcac tatacttncn 1020
tactnatntc ttatctatcn atnctatatc tntnnacatc nctncncnna tntcacctcc 1080
nttccttcac natanaactt ntatcttaca tctctatata tacncctact catttatcaa 1140
ctctntcana acannnntnn tnntntantc tannannccn tatttnatac ntanacatag 1200
actntcacnn aatntctcnt tatcactntn tatannatac acttnttcta tacntacttn 1260
nttctncata tntatcncta natnnttatc cantanttnn tntcnccnat tnnaaanant 1320
tacagcancn aaataaatnt ttattnntct accttnttna tcttgtncct tccttnanaa 1380
tttaattnnc tnnctnctct tnaaactnca cccntatcac cctntcnttc ccatnntnna 1440
tcattacaat cattnnacta actanc 1466

<210> 4399
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4399
gnttaatgcc tttcnattgc ttggctctcg atctttctgc aggatcccat cgattcggtc 60
ctacccaaac ctgtggccgc cacttttgaa ttctcagatt gccctgaatt ttgccacttt 120
taaataatgt gctgaataag ctcagcaact aaaaaccatt acccaagaac gtttcttgtg 180
agtgagctga tttattctga ttcattatat tccttttggt agattttata ccccttgggg 240
aaataataca acaaaaacat ctcttaaaaa tgctgggatg gggccatatc tactagcaga 300
ggccagatgg tcagatatga tttctgcaaa cccatcttga ccttgagtat gtgaaggggt 360
actgtacttt attcctgata cattttggtt tccatgtagg tgttgagctc ctggntttct 420
gtgtttggat gatgaagatt tggacccttc cattcataat ccctttctaa gtgaagggag 480
aggctggctt ggctgntcct tgntattccg aaagccctgg tttggggccc atgttcacac 540
tggctctcag tctagtcagg tgcaatgttc ttgagaggtg gggacctaat tattaccaga 600
gtagcancaa gagaggaaac gttgtgaatt aagtattcaa ttnaaaaagg aacatgattt 660
ctacctgaaa aaangnanan gnncctnnct tgattanctt cntaatcctt nnnnatnnaa 720
ncnntcctna annantttaa t 741

<210> 4400
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4400
tnnnttcngt tnactcgttt ganttcctat acaagctact tgttcttttt gcaggatccc 60

atcgattcga attcggcacg aggcctgatt gaggaagaga acatgctggc accatctctg 120
aagcagtttt ncctacgagt ggagatttgc catcctacat tccagtgagg gttgctgaaa 180
aaatcctatt tgttggagaa tctgccagat gtttgagaat caaaatgtga acctgactag 240
aaaaggatcc attttgaaaa accaggaaga cacttttgct gcagagctgc acccgtctca 300
aacagcagcc actcttcaac ttggtggact ttgaacaggt ggtgggatcg cattcgcagc 360
actgtggctg agcatctctg gaagttgatg gtagaaagaa tccgatttac tgggtcagct 420
gaagatcatt aaagactttt accttctggg acgtggagaa ctgttcaggc cttcattgac 480
acaactcaca catgttgaaa acaccaccca ctgcagtaac tgagcatgat gtgaatgtgg 540
cctttcaaca gtcagcacac aaggtattgc tagatgatga caaccttctc ctctgttgca 600
ctttgacaat cgagtntcac cggaaangga gcacaaagat gctnctcang caagaanaag 660
ggccttctcg ggaaacttct tnccccggga aagcccctgc antcttggct gggcagccct 720
angtcttttc ttacaaaagt acaagtgggc cccccnccnt ttttanct 768

<210> 4401
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

<400> 4401
tttcatnntt tacaagctac ttgtnccaag atcccatcga ttcgaattcg gcacgaggct 60
agaagttcaa cgggagacnn attatnncca tngnanactt ncggaacctc gggttctgag 120
tngtgctctc ctcaactgcn cgggtgagcc ttanncctg gnttgtgcna naannanacc 180
tnngtttant nngntncncc nnnnncntct taaanncnta nnnnntnnag ngctntaaan 240
cccangtgag ctnatnaanc aanaattgga gcgnattgca tcccngacta gngcggatga 300
actntntaca gatgaccnat catncttcct tgagccaang ngganaacnc tgccgctata 360
gaccntggcn atnactcnnn nttgacatna gannatnnnc taacnntncn aanattncta 420
ggcnntccgn ttctcangnn ttatntttaa canctgnttc atg 463

<210> 4402
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4402
aaacatcttg aacccgtttg antncntata caaactnctg gatgnttgng cnggatccca 60
tcganncnaa tncggcncga gggcatagtc agaccntgtn tnaaaaataa tnatnatnan 120
nnaacccagt gtggggtnat tcctttngat tactattatn ttgttctcag aacaattgat 180
ttnantttna tagactttct agcccttata taataatnct gagtnctcng ccnncataan 240
aaanctggaa aannnctgat cnagaaanaa nnggtactac tntgangaat ntttangact 300
atnatactga gtncaatatg naacacaatt cngcgtnnct ncctnngatg anncntaaaa 360
tatttgaaaa tttgattgna tnaaanagca tnttggatac cnggaganac tnatgntcnn 420
gacattanga catnctgtnt gnnngangct cccgtcnnna ggaagccant nttccnnaan 480
actaccttgn taatataacc gggancgggc tttngnacct gccattntat tgatnanatt 540
naatgttnat atncnggaaa aaannggctc atgccgtgaa atgtggggtn catnacaagg 600
gaaaagtttt ctggnngcgg atnacttctg gnnanaactc angttctnnc ggactnggat 660
ntaatncnct ccctttgcta ggtttcctcc caggannctng nttcnaaagg cgaatcaaat 720

gccngccaac atttcaaatt ttnaaganng gggnnccncn aaaaaaaaaa aat 773

<210> 4403
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 4403
ttcnantctt ttctaaatnn cnggtcttgn tctttctgca ggatcccatg cgattcgtgc 60
tattgtaata ataacaataa agagaaatta gaagtgggnn tcagggtaga aaaaaatgca 120
aaggccttgg tccctaggag accaacactc cagctgagct ggccttagcc ccagcccctt 180
ctaatttctc tttattgnta ttattattat tttctctgct attgtaatat ttttttgtta 240
attaaatgtt ttggtcaaaa aaaaaaaaaa aaaaaanaaa aaaaaaaaac tcgagcctct 300
anaactntag tgagtcgtat taccgtagat ccagacatga taagatacat tgatgagttt 360
ggacaaacca caactagaat gcagtgaaaa aaatgcttta tttgtgaaat ttgngatgct 420
attgctttat ttgtaaccat tataagctgc antaaacaag ttaacancaa caattgcatt 480
cattttatgt ttcaggttca gggggaggtg tgggaggttt tttaattccc ggcccgcggc 540
gccaatgcat tgggcccggn cccacctttt gttcccttta gtgaggggtt aaattccccc 600
cttggcgtaa tcatggtcat tagctgttnc ctgngggaaa ttgnttttcc ngtnacaatt 660
ccacacaacn taccaacccg ggagcataaa ngtgttaaaa ccctgggggg cctaatgaag 720
tggancttac ttccnattaa ttnncgttgc gcctcctggc ccnnttncna gtcggga 777

<210> 4404
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(863)
<223> n = A,T,C or G

<400> 4404
ccnnactttn cnattangtg nagccctcgc ccanananat tggcntgggc tnaacgnana 60
ttatcttctn acnnatannt gtgtgcctat tttttcataa ttcttnancn nangncttnt 120
tntaantgtt ccgctagncc anannntgcg ctaacanatc agggcgccac tgttgncgga 180
tnacnactgc nattngngcn ctntnncatt ncnnaattgc gcntntnaaa tcngatcggn 240
tcacatgaan atnanaacgt atatnatnnn cnaacttgag atcttcnttc acgggnnctc 300
tnnnacngct tnatgactcn tggtnacagc nccacggntc atcangcccc canngaaatg 360
ngactantcn cntggancnn nntgnaacac ctgnccttca cangtnactg atnaaggctn 420
anctgntcan gacanncntt aanccttncn gcttcngtnc tggaaccaga aggantnttn 480
nnaaanggnt cgatnacncc ctantagtct tacctactgc anccatcact ggaancatgc 540
taatanggtc atgtggtcag tgtaancntn atcaatngaa acncccncnn annttnnccn 600
ntnanctcaa cctaaatant cnnctttta aataantnca cnncaatggt nnaaactanc 660
ctannaatng gcngttcccc tngaatgcct ccttctcnaa gcntgcacac nttcntntng 720
nancccnann ntttaccctn tcgnnatccn cntgggcntt nccttattn atccacctat 780
nggcttcccc aaagaacntn ctnngnnnca atcatccttg ggannacttc ctccnttngg 840
nnaataacgg cgcaaaantt nct 863

<210> 4405
<211> 424

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

<400> 4405
ccntcgaatt cnnncgagga gaaaagctnt cangttanct gtttggctta taagggaaac 60
ctgcagtcct ttctgaaagg ggagctgtga atatgactgc tttgtagaaa gatgtcttag 120
gattctgggt gaaaattttt aattcccctc atgtaggaat gtcacagagt gtacctttt 180
gacttagtat tttcctagta aaatacacct ttcttaagaa aatggctaca aagtcagatg 240
catgtaaatg ctttcagcaa gggtttattg atcatctgct ttaggctggg ctctatgtta 300
ggtgcctgtg gattccattn tagtacctgt gttctcatag aattgaatcc tgntccccca 360
tatgactttt gatgatattc acactgttaa ttccaataaa gacagagtag acaaacagaa 420
actg 424

<210> 4406
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 4406
gnntcaatgc tnttctctng ttctttntgc aggatttcat nnnctcgnat tcggcacgag 60
agaaaaacaa cagagagaaa aagaatcctg agaatatgta gaagctttac gagcccaaat 120
ccaggagaaa atgcagctgt ataatattac tttacctcca ctatgctgtt gtggtcctga 180
tttttgggat gctcatcctg atacctgtgc caacaactgt attttctata aaaaccacag 240
agcatatact cgggcactac attcattcat caattcctgt gatgtccctg ggggtaattc 300
aactcttcga gtcgcaattc ataattttgc ttctgcacac aggcggactt tgaaaaatct 360
ataataagaa tctgaaatta actggtagta ttttggcttt tacttaaaat catccctgag 420
agagtattta agaaaagctg ttcaagttat aaaatatata atctggaaag aaatactgnc 480
tcatataata attagattgg aatcattggt ttaatctctg tctgggaacc aagattgaaa 540
gctgacttac ttctctcttc tgncttgtga accataccgg agcctattat ttttaaaata 600
tgatcagaca agtaaggctt ctcttacttt tgctctgctc tggatcagga agancctcat 660
ggtgaagtct ttgagantct cttattaatc atctttctta aactgngttt ttgagcctga 720
cagtactgaa aangctggg 739

<210> 4407
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4407
cntcagcggc cntgnatcca aagntggggg cgngcgnacg anctgcgagc ctgccttacg 60
aggccgcaag ccctttttgc caccctcggn gncnggncgt tccggccgtt ttggnggcat 120

canccgnccg ncatggcagt gaacgnccng caggcnccag ccacngcctg gggctanaga 180
ttaaattgac nncccnagac ccggcattat caggagnngc tangannctt nctgcatnct 240
cggnaaacta gcataagcca aagactcgcc atgcagaant attagcanat agctgcgctc 300
gataaaggaa ngaggagnta aanaatnaac tagtgaaaac aagggagatg gtggctttat 360
cgtgggttag agctntngan ctatgatgtc atcggctaga tactatgtga aatatcttac 420
tacnnttann catgcnaatn agantgagna agnctnngac caagcccccc ttaatgagnn 480
caagaaaaac tcttggctgg tagaggaaag nnaatcnagc tanaactcgg tgcacgaata 540
tgngntcata tccaggcaaa ccgggagnnt gttgtaaacg gtcaggacca atggnaaccc 600
cttttnncct ctgggggcct tnngttggcc aagggaacgc aattaaggaa ccttaaatgc 660
nnantagnnc cnncaatttc ccggnccatg gaaannccaa ttgnccngga ntgnccccct 720
tnngnccttg cctcncccca aaagggggtt tgnccaccaa ngtngnttgg ggaaaacaat 780
tccg 784

<210> 4408
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1327)
<223> n = A,T,C or G

<400> 4408
gnnnngttnc tnctcttnaa accnttgctc tngttctttt tgcaggcatc ccatcgattc 60
gaattcggca cgaggggcnc tgtctgcttg cngcntgnan acgatnngtt tgatcntctn 120
tnaactannn acttncnnng ttngncttat tgcagttntc atcnaacgct aacantgtng 180
tctctatnan natnttatga agnacatatc tacgcttnat gancantntn tgtcanaann 240
ggncanancc tatgtcgtgn gcnttntttg ncaattnnan aanangagct nanggatcna 300
ncgatgtgaa agnacagctn tactctgaan acatgctcnt cnnnntngna tgtccnnnta 360
cntancnaac gaaatattcc nntaaagacc nganntnata tggacataca agaanngtnc 420
ttcaaaaagg tcctttantn nanagttntt ncncnggttt gactaccttg tagntaattt 480
actaggaatt cttggtaatc gaaatccaac ttnccgtcnn ggaactcgtt gngntcnant 540
antnataaag tggnngngnn gaaancctgg nantaaangn naaccctggn cattggtnng 600
acccattgng aattnacttt tatcccaagt tnggacccnc ttttaccccc anttgccccn 660
ttgtgngctt ttgcccccaa aaattccccc ctntcccatt aacncgttaa nccaaatttt 720
tccgccggtt aacaataaat ttttttntan ccctnaaata ccnnggggtt tccttaaaaa 780
ncgtcnnatn cctnaanttn ccntttgaaa tttccctttn cncttctggg gccnttantt 840
tgaaccccna naanttnaac ttggnccntc cncgngttta antcnaacan natttgccct 900
tacntanana aaatctccta cctnttggtn ncttcaanat ttttgaacnt taatctnnat 960
tttanannna nttaaataaa ctgtaatcnt tggaaannta ctntgnnncc cnaaattccn 1020
ttatacacat nggtnttttn atgnnaccaa acttttgagn aaccgcatng tcttataacc 1080
cncnaaattt cttccgtacc nccggggtnt cttcaatctt tacctcaaan gnngaancgt 1140
tttcctttgn tttcttacnn atacggctnc gtttctcntc tatttttant ccanctaatg 1200
gtaattcacn tttttccgga nctcttctga cctatntnac ntctcttcan atctcccccc 1260
aaagtcctna atctcnaact tccaattntt acccccanta tcaatgtttt ccaatccctt 1320
nnttcnt 1327

<210> 4409
<211> 1267
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1267)

<223> n = A,T,C or G

<400> 4409
ggcttctacn nnaanngntn ggaaactcan ncgctcgann gcgcnnggga ngcnnctaga 60
tcacacggac ngctaccanc gagnagggnt ttnntnacca naatcangac ctaaatgcac 120
ggntntatgt accctgncca ccatctngtg cctctttatc attngcctct tccntcctat 180
ntcccttgcg ttaaggaana aaaatggtgn cacaatttgt caaaagtnat tttaanngna 240
aanccntnnc atganagnaa ccntgnantt caanncgnct nnaannnnnc tnctnnncca 300
nngnggacnt ngnnnntcnn aaccctnact ntnnntncnn gannenenna nnnccnatat 360
cntnncnnga gttnaatnnc annncancan tttnnntann nnngaannan gnnnaattga 420
nnncttgtnc cgganntanc ntcangatcc cannannant nccgancgna anttctatna 480
antntncnan caccanatnc ngtcganacn ncnncgtcnn ncngcacnat ncactgnnan 540
tnnancnnna gncnncactg nanntacngn anctacnagc gctgacnntn cntntccnng 600
cnngncnngt ncngtanatc ncncnatcat ntnagatntc nnttnnatnt acnnatntnn 660
antntcgana ntgnntcagc gancntatat nngngannen acctanagng cacannacan 720
ntcnanacga nacactnctc ncagnnatnt tcngncgtnc tctgntgagn cnctacacnn 780
ngnncacnnc tntancagag taatcncaca ctgtaatcnn tataccanaa ntctncgtac 840
gcanancncn cnnanagcat cncnntgctg acgtnnacnc atntcnacat ntcngcacgt 900
ncatntntca ntancncnaa tntcntatgn nctanngntc natcntatat atnntnnttg 960
atatgnntnt ncgntancan acacgnacng ngnacanaca ncncactnna nnnangannc 1020
acncancncn tnangncann nttngnnnnc tcgcnananc gtagnatacg ntactcagng 1080
cntancacnc ganncgcgan tatctcncaa nanactnnnc gctnnnannt atcactntct 1140
cntacatcga ntctcngcng atctacncgc tcagtnncnn ctgannnnat atnagnatcn 1200
ctcncatnga tnanantann aancactgnn ncnncnaacg ngtncgcnta naagtaganc 1260
gnnctcg 1267

<210> 4410
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

<400> 4410
tgngactntt tgaactcctg ttctttttgc aggatcccat cgattcgatn atgnnncnan 60
ncactntgan ngtnnattta tnnntttctc cnattccnna actaatggga nnccggtgct 120
ggtatngann cttggggaaa atacctggag ataccagtgc agctattnaa agctgnagca 180
agggctgcaa tcttgcggag attttaaaga gaagtnttaa agtttctaat actgatgcct 240
ctttttggta aatacaagtt ttatnaatcc tgccctggga tcctgattcc ccattaatca 300
agatttgtca gacttcacct tctataatta gaaaacacag ttataagaac agtcaatttt 360
ttaaattttc caaattaaaa aattgcacca tgattttgaa caagcacttc caattncatt 420
acccatcttg tatgccatag gtgggagtat aattgncaca gc 462

<210> 4411
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4411
tnnnnttttn aannttttcc taatgctggt ctcgttcttt ccgcaggatc ccatcgattc 60
gtttgtgctt tttaagaata tttttagact atttcttttt ataggggctt tgctgaattc 120
taacattaaa tcacagccca aaatttgatg gactaattat tattttaaaa tatatgaaga 180
caataattct acatgttgtc ttaagatgga aatacagtta tttcatcttt tattcaagga 240
agttttaact ttaatacagc tcagtaaatg gcttcttcta gaatgtaaag ttatgtattt 300
aaagttgtat cttgacacag gaaatgggaa aaaacttaaa aattaatatg gtgtattttt 360
ccaaatgaaa aatctcaatt gaaagctttt aaaatgtaga aacttaaaca caccttcctg 420
tggaggctga gatgaaaact agggctcatt ttcctgacat ttgtttattt tttggaagag 480
acaaagattt cttctgcact ctgagcccat aggtctcaga gagttaatag gagtattttt 540
gggctattgc ataaggagcc actgctgcca ccacttttgg attttatggg angctccttc 600
atcgaatgct aaacctttga gtagaagtct ncctggatca cataccaggt cagggaggat 660
ctgntcttcc tctacgttta tcctggcatg tgctagggta aacgaaggcn taataagcca 720
tggctgacct ttggagcacc agtgccagga cttgtcttca tgtgt 765

<210> 4412
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 4412
gnnttnantt nnnttcccct tcaaatnctt ggctacttgt tctttntgca gggatcccat 60
cgattcgaat tcggcacgag ggaacctact agatggacag gctgaggtgt ttggcagtga 120
tgatgaccac attcagtntg tgcanaaaaa gccaccacgt gagaatggcc ataagcagat 180
aagtagcagt tcaactggat gtctctcttc tncaaatgct acagtacaaa gccctaagca 240
tgagtggaaa atcgttgctt canaaaagac ttcnaataac acttacttgt gcctggctgt 300
gctggatggn ntattctgtg tcatttttct tcatgggana aacagcccan anagctcacc 360
aacangtnct ncaaaactaa gtaagagttt aagctttgag atgcaanatg atgagctnat 420
cnaaangccc atgtctccta tgcagtacgc acgatctggt ctgggaacag cananatgaa 480
tggcaaactc atagctgcan gtggctataa cagagaggaa tgtcttcgaa cagttgaatg 540
ctataattca catacagatc actggtcctt tcttgctccc atgagaacac caagagcccg 600
atttcaaatg gctgtactca tgggccagct tttatgtggt acgtggatca aatgggccac 660
tnaaattgac ctgaagtggt ggancagatt aatgaattca aaccatagna tgactgggtt 720
cctgtttcag aatttgagaa ctaacccggg tgtn 754

<210> 4413
<211> 1119
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1119)
<223> n = A,T,C or G

<400> 4413
ncncacnnnn cantnntcna nanccannnc caanncctca cncnnnnnan nntctcnaaa 60
ccanccnnnc gnctnncnat nacncaangg naaggggcan nnngattcta gttttnntnn 120
antttttga aaggccnttt cnagagtcnc ttggcaagcn gcttctacca gangaattcg 180
gcacgagaat nntccngtat ntgnctcttc naccctagaa tnacttatan acgtataann 240
tanncntcna aatactnaca ggtntnaaaa taangntnat caantactaa tttaattctg 300

tttcatcana aagcacgacc atcgtggcat ngaaacttga gttatagcct actatcanga 360
tcaatntaaa aaatatatat ntagggctgg ntgcacgtgg tgcacatctg taancccaag 420
tgctttggga ggctgaggng ggtgaatcac ctgaangtca cganttcaag accaacctgg 480
tcaacatgac nataacccca tncctacaac aaaaatgtaa caaattagcn acgngttggn 540
nacacacacc ntatcactct acntncaatn gggggcccga atncngtnga anaatccgcc 600
tntgatctct tnagnaaaca tncaaangcc tgctncanaa gctaatncat cattgcccna 660
cctggaactt ccaatccntn atngcnaanc ancaatctac ncaccacntg gtcccntaat 720
atacggaaca nactcacatc ngactatctn aanantncca nagcnataan ggnnacantn 780
acnccancan ntttncaanc nntgccnaaa nanatacccn acaacaatnt ctagnacant 840
atnnacnnnc ntttacncat ncncncacat ntnncccaaa ctcnantaca cntccntcac 900
actntcactc ctctcctacn tnnncnaaaa anactcntcc gnaacccctc cntnnantat 960
acctcatnta taccnnanna atctcctaac attttaccat ntctcntnat ncccnnnaca 1020
cactttnnct naacnncntc tcnanataac gnaanntana nctctcnang atntccaaaa 1080
nactncacna aattttgtcg caaaaangtn ntntnaccc 1119

<210> 4414
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 4414
gntttnnttc ntttnctttt caaatccttg gctactttna attnctgcag gatcccatcg 60
attcgnnttn ggcncnangn ggatntggct tntgnggaat nggatnnnna gctggtcgat 120
gacggncanc ggataganan actgnagnan ccntgctcnt tgnagnncag tgctgtttan 180
gaanangatc tcatngtntg nnttgannct ctgnatggan ccanggcgtn taccnaaant 240
attntngaca ntgtgacacn tcattattgg aatngantat gannnanatg ncatagcang 300
aganataaac cagcnatatt acaactatct cgcancgacc ngatgctgng ntctggaaga 360
caatntggng agntttaggt ntagcgccgt nnggntttca nctgntanan gaacctgntg 420
ngaaanacat tatcacnnct actcgntcct atngcaacaa gaagnngctg actgtgntgc 480
tgctntgaac tcctatgctg ngctgctagt angatgagca ngnaatanga tnatcagctg 540
anngannngcn aagnctctgc ttattgtntg ngcaaatgct ggttgtaagg anntgaggtt 600
actttgcgct ttgggnaagt ncntactana ttnnttnttg ggacngcaan gntttnnccg 660
ggtganccca angngnaant ggnaccttan tnganccnat naanggnntn tcananggca 720
tagtnnancc tggannaaag gangttncna gnnnttttann tncgggaaat nnnngactta 780
ctttttcg 788

<210> 4415
<211> 1411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1411)
<223> n = A,T,C or G

<400> 4415
ttgtnnnnnn ngtttttttt ggcggtaaaa aaaaanggnt ttttttttgg ggggaaaaaa 60
nnggggccgt ttggctnngt ggaaaaaacc ccccttttttt ggggggaaac cnnttttcgg 120
ggngaaannng nncncngnng ggnnngnngn nnnnnggggn nngngagggn nnnnnggnnn 180
nnngnggnnn ngngntnngn nnannggngg gnggggnngna nttttnttgn naggnggagg 240

ganttnttng gnngtttttt ttgncgnncg gggnnggntn gggnagnggg gggcgaggga 300
ggggngggnn cgngggngga ganagnaagg nagggngngg angcgtgggg tngngggann 360
gggnnagann aggcgnnatn aggnggnggg gnngggangn gggggagngn gggtagnagn 420
ggggngnggn nngngngngg gagggnnngc gnangggacg ncacagnggg ggtcaanngg 480
ngangggann tgnggaatgc nggnngggcn cgggggcngn nnggagnggg gntgggacag 540
ggtgnnggan gccannnagg ggngggggnn ngccgagngc attnggtagc angnnnggcn 600
nttcgggggg ngccnnnngg tnantgacgc gngcgggggg ngnanatnca nggggnnagn 660
gnggggaang gcnccncgng tntggggggg ganccnntga gggggngnna agnagggggg 720
ggaagncngc caanngngtg ntncngggnn nnanggngan nnnggggggg ganngngncg 780
ggnganggga ggggaaccnn gtnnnngaga agnccnntgn angntgggag ggnncggnnn 840
cangggggng gncanggggn gnnaanantg cnnnnggggg ngnggaggat ggcnggggag 900
cntgggana gatgggggan nnnagagcgn ngnagnngtg tgnggggngg gngatnnaga 960
gngtnnnggg gggnnggggng gggnnganng agnganggga gnnaaaagnn anagggctan 1020
tgggggggg nngannggna aagaggggg gggggggggn ganannggng cgagngngnn 1080
ggnaaanggg gngnaagggg ngntgnnngg gggganaggg gggntntnng ngnngtancn 1140
tngggaannn gggggggggag ngngcagaag nncngggggg gnngtgnaaa angaaantgn 1200
gggggggnan nnacaggggg gnannaggna ngggggcncc ganagctang gaggggnnnn 1260
nnnggnggtg ngggggngan ngggagaana gggggggggg tngngnaagg gggggggnnaa 1320
nagggggga nnaaaaagag tnngggggg nagaanngnn agggggangg ggngaggngg 1380
ggatgggggg ggggnncacn cannaccgcg n 1411

<210> 4416
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4416
gnctttacn aatgcttggc tacttgttct ntttgcagga tcccatcgat tcgnattccg 60
nacannggge atacttgntg ccttccangn gnactntcac caangtntct ggcgtacanc 120
gtnnnagancn gcntgaccgc acnccatcgt nangngcagn ngtgccttgc tnctgngaan 180
ggggccaagt ncggtntgtc atgcctntga tnccacnact gnnggaagct gatgcangcn 240
gatnacttna ngtcatgant tcnanaccag actngccaac atggtgaaac cntatnttta 300
ctatanacaa gagtagatcg anngtgggng nngcacactt gtaatcnnag ntactcnaga 360
tgctgntgcn naatanttgn ttnnactctg gagatngang tngnantgan ccaaaatcgc 420
nccnctgngc tccaacctgn gngacanagt aagaccctgt ctcataacaa acaaaataca 480
actcnagcct ntanaactat agggaagtcn ggattacntn natccngnca tgatanggat 540
acatcgattg antttgnaca nncnacaact tggattgcag gtgaaaaaaa tgcttntatt 600
ttgtgaaana ttncagtgct attgctttta tnttgtaacc nattataagc ttgcaaatta 660
atcatgttta ancaacaacn ngnttgcatt catnttatgt ttcaagtttn aaggnggaac 720
ggtntnggna aggtttttta antatggcgg tccggcgngg tccaannn 768

<210> 4417
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4417
tcnnnctttc taaatgcctt nggnnntccc tttctaatng cttggctact tgttcttttt 60
gcaggatccc atcgattcga attcggcacg agggacaata atggccgctt tcaaggtgtg 120
gattttggct ccttgagcct gtctgagcga ggggtggcag cgccggcgcc ccagaatccg 180
ggacagaagg gtcccaagag tcgcgcttgg tgagagaaat cccagatcct gtgatggggg 240
acaccagtga ggatgcctcg atccatcgat tggaaggcac tgatctggac tgtcaggttg 300
gtggtcttat ttgcaagtcc aaaagtgcgg ccagcgagca gcatgtcttc aaggctcctg 360
ctccccgccc ttcattactc ggactggact tgctggcttc ctgaaacgga gagagcgaga 420
ggagaaggac gatggggagg acaagaagaa gtccaaagtc tcctcctaca aggactggga 480
agagagcaag gatgaccaga aggatgctga ggaagagggc ggtgaccagg ctggccaaaa 540
tatccggaaa gacagacatt atcggtctgc tcgggtagag actccatccc atccgggtgg 600
tgtgaaccga agagttttgg gaacgcagtc cggcagaaaa aaccggaacc ggcgggaaca 660
tggtgtctat gcctcgtcca aagaagaaaa ggattggaan aaggagaaat cgcgggatcc 720
nagaactatg acccgcaaga agggacnaga nattaaccgg gattagaaag taggcacanc 780
nt 782

<210> 4418
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4418
ggngntttta tcagctcttg ttcttttgca ggatccctcg attcgaattc ggcacgaggt 60
gacgggtgaa gcagatgttg agtttgctac tcatgaagaa gctgtggcag ctatgtccaa 120
agacagggcc aatatgcagc acagatatat agaactcttc ttgaattcaa caacaggggc 180
cagcaatggg gcgtatagca gccaggtgat gcaaggcatg ggggtgtctg ctgcccaggc 240
cacttacagt ggcctggaga gccagtcagt gagtggctgt tacggggccg gctacagtgg 300
gcagaacagc atgggtggct atgactagtt ttgttaggaa catttgagtt acttcaatca 360
ttttcacagg cagccaacaa gcaattaaga gcagttataa tagaggaagc tgggggaccc 420
attttgcacc atgagtttgt gaaaaatctg gattaaaaaa ttacctcttc agtgttttct 480
catgcaaaat tttcttctag catgtgataa tgagtaaact aaaactattt tcagcttttc 540
tcaattaaca ttttggtagt atacttcaga gtgatgttat ctaagtttaa gtagtttaag 600
tatgttaaat gtggatcttt tacaccacat nacagtgaac acactgggga gacctgcttt 660
ttttggaaaa ctcaaangtg ctacttcctg attcaaagaa atattctcat gttggtcatt 720
ctagtttata ttttcattta aaatcct 747

<210> 4419
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 4419
gnttnnttcn tttcctttca atncttggct cttgntcttt ctgcaggatc ccatcgattc 60
gaattcggca cgagcagagc tgtgatctgc ccccaggtat tctgaccccc aaactggctc 120
tcaaccatgt ttacatgatg aaaagaagag gtgactgttg tatcagctct aaaggcctca 180
cttttggtga aatgggacct aaatttgatt gcatacttga ttacttgctg tcaatactga 240

aattggcact tcataatttt aatactattg aactttcacc ataaccctgt cctataaagt 300
tgacttgcaa atgaagaaac tctatctctt caatattata aaatatatcc aagagtcaca 360
actagtgaga aaaggacagg atctaactaa caatgtgagg ctgtgtcttc acaccaattc 420
aacagagtat cttgtaaatg ttgagaggag angtacttta ngtcatgggg tgtctttcaa 480
taaagtgctt tagaaaacag gtgacaactg attgggcctt gaagtatgaa tggatttagc 540
caggcaatta aataggaaag cagatactca agacagatta aaacagcttt gagagaagtg 600
aaatgagcaa gtgtaaagac aattgatact gnncatggat tttagaaagt gtgaagtgga 660
gtgattgtga tgaaancttg gaaagattgc cttgggccaa ggctgttgaa agctttggtt 720
ttgcttanat taagtcaaat gccgtann 748

<210> 4420
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 4420
gnttnnttcn tttcctttca atncttggct cttgntcttt ctgcaggatc ccatcgattc 60
gaattcggca cgagcagagc tgtgatctgc ccccaggtat tctgaccccc aaactggctc 120
tcaaccatgt ttacatgatg aaaagaagag gtgactgttg tatcagctct aaaggcctca 180
cttttggtga aatgggacct aaatttgatt gcatacttga ttacttgctg tcaatactga 240
aattggcact tcataatttt aatactattg aactttcacc ataaccctgt cctataaagt 300
tgacttgcaa atgaagaaac tctatctctt caatattata aaatatatcc aagagtcaca 360
actagtgaga aaaggacagg atctaactaa caatgtgagg ctgtgtcttc acaccaattc 420
aacagagtat cttgtaaatg ttgagaggag angtacttta ngtcatgggg tgtctttcaa 480
taaagtgctt tagaaaacag gtgacaactg attgggcctt gaagtatgaa tggatttagc 540
caggcaatta aataggaaag cagatactca agacagatta aaacagcttt gagagaagtg 600
aaatgagcaa gtgtaaagac aattgatact gnncatggat tttagaaagt gtgaagtgga 660
gtgattgtga tgaaancttg gaaagattgc cttgggccaa ggctgttgaa agctttggtt 720
ttgcttanat taagtcaaat gccgtann 748

<210> 4421
<211> 1407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1407)
<223> n = A,T,C or G

<400> 4421
ggnttattcn ttcctncnaa tncttggcac ttttattctg cggatccctc gattcgaatt 60
cggcacgagg gctanctggc ctcgtngnac tattgtatgt ttgnngncct gngnncttaa 120
cacttttnng cagttgtgct tnanctaatg ggctaattgn tttnaanntn gnngntntcn 180
anttaacntt ttctttaaat ttnaaanngn tnaataaatt tctntnaatc naccccttann 240
ngtatatnaa nnncatanaa nnnnannnac tttnanncnt atttttnaaa nnnngacacc 300
tnnngatcaa tntgntnaan ntttnnatnc ctanctcnnn nagnnttttn nnaanccttc 360
ncctggantt nttgntcaan acngaatttt cnttatctcn nntgcnnttt tgngccanca 420
cnnttcntca ncacctattg tgncctnngc gnannatnnt ttacncntgc ggttgntatn 480
nacancntnc tcttgcatng cgtcattaac ctntagtgta tccacanaga natatttttt 540
agaggcgtat ntntnatcat agngannata ctntcancnn aattagtgct ttnaatattt 600

tatnctacta antgatntct tgnnagngtn tcatatnnga tcctaatatt gttntntatt 660
ttttgtaacc ctattgtgca nttcncntat aatatnnggg anaatttgtg cnncntttat 720
nttctctata ttanacatnn atattggggg nannnttacn actcnnttat atnnagaaga 780
nctntactcc ntatgtnnna nataananac tnntatacnc tatattngna annagncacn 840
nnttgggann gcttttanat tactncatac atacatgnat gtntataann anngcttncn 900
atatgngcac naaaatactc tatatgtnnt tgcnttacna acancactat tnttatcnta 960
cnttattatn ntnnntnanc aacccnactc ntnntatanc gnctctctnt ntnctgtctc 1020
nntatnntnt cgcnntctcn ttnactntgg ngnntacnta ttattagaga ngngnngatt 1080
tatntctcnt ctgcgctaat ggantnacaa gtncntnnta tannatanat tngtncnctn 1140
ncantcaatn nttatnnctn tacatgnatt agcatnatnt nccnnnttat tgtttaantn 1200
acacccntca agatnntcta ctatgagant acacancttc tcananannt atgnctcaat 1260
gtanatcntc ctcactcgng nttttctgtc cacatnttnt canaacttct ancntntact 1320
aatatnntct aaantnccnc gtnnatnctc tncangnngn ctgcncntcc tttngnnntn 1380
ncatatgngg tancatttcn tcncnct 1407

<210> 4422
<211> 1407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1407)
<223> n = A,T,C or G

<400> 4422
ggnttattcn ttcctncnaa tncttggcac ttttattctg cggatccctc gattcgaatt 60
cggcacgagg gctanctggc ctcgtngnac tattgtatgt ttgnngncct gngnnncttaa 120
cacttttnng cagttgtgct tnanctaatg ggctaattgn tttnaanntn gnngntntcn 180
anttaacntt ttctttaaat ttnaaanngn tnaataaatt tctntnaatc naccccttann 240
ngtatatnaa nnncatanaa nnnnannnac tttnanncnt atttttnaaa nnnngacacc 300
tnnngatcaa tntgntnaan ntttnnatnc ctanctcnnn nagnnttttn nnaanccttc 360
ncctggantt nttgntcaan acngaatttt cnttatctcn nntgcnnttt tgngccanca 420
cnnttcntca ncacctattg tgncctnngc gnannatnnt ttacncntgc ggttgntatn 480
nacancntnc tcttgcatng cgtcattaac ctntagtgta tccacanaga natatttttt 540
agaggcgtat ntntnatcat agngannata ctntcancnn aattagtgct ttnaatattt 600
tatnctacta antgatntct tgnnagngtn tcatatnnga tcctaatatt gttntntatt 660
ttttgtaacc ctattgtgca nttcncntat aatatnnggg anaatttgtg cnncntttat 720
nttctctata ttanacatnn atattggggg nannnttacn actcnnttat atnnagaaga 780
nctntactcc ntatgtnnna nataananac tnntatacnc tatattngna annagncacn 840
nnttgggann gcttttanat tactncatac atacatgnat gtntataann anngcttncn 900
atatgngcac naaaatactc tatatgtnnt tgcnttacna acancactat tnttatcnta 960
cnttattatn ntnnntnanc aacccnactc ntnntatanc gnctctctnt ntnctgtctc 1020
nntatnntnt cgcnntctcn ttnactntgg ngnntacnta ttattagaga ngngnngatt 1080
tatntctcnt ctgcgctaat ggantnacaa gtncntnnta tannatanat tngtncnctn 1140
ncantcaatn nttatnnctn tacatgnatt agcatnatnt nccnnnttat tgtttaantn 1200
acacccntca agatnntcta ctatgagant acacancttc tcananannt atgnctcaat 1260
gtanatcntc ctcactcgng nttttctgtc cacatnttnt canaacttct ancntntact 1320
aatatnntct aaantnccnc gtnnatnctc tncangnngn ctgcncntcc tttngnnntn 1380
ncatatgngg tancatttcn tcncnct 1407

<210> 4423
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4423
ggttanttcn tttcctttca atccttggct acttgttctt tctgcaggat cccatcgatt 60
cgaattcnnn ncgnggaggc ctncgcggca tctggnnncn ttgnnatctg nttngcngnt 120
ngagcgatnn tcggctgttg tggacacgcn tttnangctt ctgttgtgca tntannttga 180
ttcacatngn cttacacant gcctggangc tgtctnntag gctaatgcna cttncacatt 240
gggagataca cctgctgata gtggnnnatn gacncnctga nttaangtgn tggannngat 300
nngtnntttn anngnntggn nnaaactnnt cntattcncn tgatgnnact ttggatcnca 360
ctnctgaggg anatcngtna tggagcnanc tngggcnggn gnaccnnctt ntttttagaa 420
natgaaatca tacatctgng ngnntcagtg ntnnnctgga tatcngcntc tgnnttantn 480
acttccaccc anagcatnat angacctcng acttanccng ngtcnnagcc ttctganatn 540
nggnctggaa gnctgntngg ctnccttann nnnccctntt gagnatnatg atnnaacncg 600
gctttgggng gttcccactg atntgacact gnctangcaa gatncccaan gatggcgant 660
cntcttgcaa tttgggaagg aantccnttt tntncngctt gntagnatng ccttnnnnat 720
aaccttgctt tgaanttntt taaccccnnt aatccagntt ngannttgct ttaggtaaaa 780
nccaattgca ntcgnnanan ancg 804

<210> 4424
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4424
gnttnncncc tttcaattnc ttggctactn gtctttttgc aggatcccat cgattcgaat 60
tcggcacgag gaggatctgc cttctgagga agtggatcac gagctgattg aagacagtca 120
gtgggaagaa atactgaagc aaccatgccc atcgcagtac agtgctatta aagaagaaga 180
tctcgtggtc tgggttgatc ctctggatgg aaccaaggaa tataccgaag gtcttcttga 240
caatgtaaca gttcttattg gaattgctta tgaaggaaaa gccatancag gagttattaa 300
ccagccatat tacaactatg aggcaggacc agatgctgtg ttggggagga caatctgggg 360
agttttaggt ttaggcgcct ttgggtttca gctgaaagaa gtccctgntg ggaaacacat 420
tatcacaact actcgatccc atagcaacaa gttggttact gactgtgttg ctgctatgaa 480
ccccgatgct gtgctgcnag taggaagagc aangaaataa gantattcag ctgattgaag 540
caaagcctct tgcttatgta tttgcaagtc ctggttgtaa gaaagtgggg ataccttgtg 600
cttcagaaat tattttaaca tgctgntggg aggcnanntt taacccgata tcccattggg 660
gaatgttctt tcaantccca naaggttgtn aagcatatga acttttctnn gagtcctggc 720
ccactgtgga attatgacta ctatgcanc 749

<210> 4425
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 4425
tcnaatnctt ggctcttgnt ctttntgcag gatccctcga ttcgaattcg gcacgagntn 60
gagctggaca ctnagncaca gtttagagtn ttgatatatn actngaaaac agtancattn 120
ccnaanaccn atnaccccna ccctgtccna angaatgatn gntatgnatg tgaagttnat 180
nttntgactc ngatnatnac nttccacttn ggatgcacaa ccatgctgnc ctgtacagaa 240
gtcacangtn ttgtgagaat ttntaaactg atgatgtgna ttnncatggn aacatgagtc 300
tacattttac cttcnatagt agcnatgaat cacaatnacn tctttgttta taggttggtg 360
gaaaantaat tgctgttntg ccattgcttt taatggctgc cacaactact ttngcacnan 420
cctaatattt attaanactt tnctttctng anacacaatt nctgaaanng ggattnatgt 480
gctgagnctc taaggaccct gatantncnt ngtatnnntn gttgaatgtt gnanaatatt 540
tcatnactac tcaantgatg gtnctatgat ctgggaggaa gcctncttna gcatnttanc 600
canattgncc agggtttcna gganaagtct aaagcctgtn angataccna tgggacccca 660
ccgnggtgna anggcttnnt gtcttncggg gactttgagc ttaattttcc cangnaaaaa 720
anggctt 727

<210> 4426
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4426
cctttcttga aaccnttggc nacttnctct ttntgcagga tcccatcgat tcgaattcgg 60
cacgaggagg atctgccttc ngaggaagtg gattnagagc tgattgaana cannnantgg 120
gaagaaatac tgnagcnacc atgcncatcn cantncantg ctnttaaaga agaagatctc 180
gnggtctggn ttgatccttt ggatggaacc anggantata ccgatggtct ncttgacaat 240
gtaacaggtc ttattggaat tgcttatgaa ggaaaagcca tagcaggagt tattaaccag 300
ccatatnaca actatnaggc aggaccanat gctgnnttgg ngaggacaan ctggggagtt 360
ttaggtttan gngcctntgg gttncatctg aaagaagncc ctgctgggaa acncnttatc 420
acaactactc nattccatag naacaagacg gttactgact gngttgctgc tatgaacccn 480
gatgctgtgc tgcnagtatg aggacaggan attngattat tcagcttatt nanggcaann 540
actctgntta tgnatttgcn agnnctggtt gtnagaattg ngatacttga gctccagaag 600
ncatttacat gctgtnggag gcangttaac cgaatccatn ggnatgttct tcagtccacc 660
aangatgtta accatntgaa ctctggatga gtactgccac nctgaggatt atgactactn 720
tgcaagccca nnacatgngn gagccccctn ctt 753

<210> 4427
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(863)
<223> n = A,T,C or G

<400> 4427
tttgnaaanc cctttctgtt gttcaccgga aacncttggg aaattcccat agctncangc 60
annnantgcg atggcgtgcg cctgtagtcc caggtactcc ggaggctgtg gcagattttn 120
ggcttattga acacaggcag nttgtggcca ttcagcaagg agcataatgc ccctgtnggt 180
ggtgatagtg aataagcact cagtgcagnc aataagnata taattngagt taatgcatgn 240
cnaatgattc cngtcccttg ttgaatgtgg atttntntat ctcantncca atacatttnc 300

tacaaagcca agtgccattc cctggaattg gccnatagca atcnggaatg tnnaccatng 360
gattcactca ctggcagntc aagtctgtga acaccatgaa ggttaatcaa catgagggtt 420
taaagccaac tttataggct tgctatatnn nccttcctgg tcagcaatan agcccattcn 480
cnggagcttc cngnggggat gactcgtccc agngaatctt cctattaagn naaccnanng 540
gnttaactgn agaaaaggct tnccgtnatc tntaagatcc ttttggaaac cacntttant 600
ctaccctggc ctncaagntc caatttggan agacccgncc atnnancctt tggangaaat 660
ncccaatncc aggaaaccca atggccaaaa cccctnttnn aaggnnnctt naacaagccc 720
agggaaaacc naattncccn aaanattggg gccnntnnnn gggggggggn aaaaaggctn 780
naaactntcc cnaacttaaa acaaangncc ccttgggntt ntcaaaaaaa nggggcnttt 840
nggaanggaa aanggancc cna 863

<210> 4428
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

<400> 4428
nntttactnc ctttnccccc tctntttgca ggatcccatc gattcgaatt cggcacgagg 60
cagaacngat ccagacanaa antgtntgca ttttaccttn tttcccncnc caattcttct 120
tngtaganga nagtancgtc agatgnctct tgncgancct nnnctcngtt gnacatngcc 180
tatnctcctt tnagatntan atgganattt gcttatgact tgtgttgnat aacgaggtan 240
aaanattgct gtcttctctg acatncctcc tcaaaganat cattaatgta tgatatctaa 300
taaaccanct antgcatgta acagtgatca gcaaattaat anatnanacc tctattcatg 360
cttaaattat caaagntagt atttnaatga natgtgctat tttcattaaa atntntggca 420
ccatcgagna tganacttac caattgcanc nnaggnantg agccctnacn c 471

<210> 4429
<211> 976
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(976)
<223> n = A,T,C or G

<400> 4429
nggggtataa annnnntttt nngaatacag ctacttgttc tttttgcagg atcccatcga 60
ttcgcannng ngcncgnnat ntgntngncn atngaactgn cnnngcacat caatattngt 120
gggnttncnc natctntcat nnantgtgna anacagatct gacttggtta tgttngagtg 180
accctganca atgnnngnag acggntaggg gtacacggag cacacattcg tcacaaattc 240
tatnggtgca tnttttgcaa gggncgtttc cagggtgctt attancgann gcaaagggta 300
cttggcaatt gcaagatttt ncaatgagcc ccaagnaatt cntngancga attgcattgg 360
caccccaagg tttnaggaaa agatnggnaa anccanttac cttcnaattt ccaaccttgn 420
nattttgacc ttggantggt tttaannaan accccagggt agttacccaa cntnngggcg 480
antttncnaa agtnccccna tcccttaatt ccaccaanna anggntttaa aanaatggcc 540
taatttcggg cgagttattc gaagaataat cgcttantng tggtncaaaa cttacattac 600
tcaatggaaa cattcaccca attttngaaa gggaatcttt aattcggcct ggcattaaat 660
ccggagntgt catgggcttt cngaattcaa atgaaanngg ttatatttct ggggngcaag 720
atcananttg acganaccca atggaangat ctactgatag gcangttacc atcactggaa 780
tctgntgcca gcatttagcc tggctcaata tctaatcaaa tgtcaaggct tttnccttgg 840

gaaaacgggt tggcattggg ggagcaactn ggaacaatgc agattcaatc cattaatccc 900
ttttctggtg ttcaacaacc aacccattga atccatctgg ggtaagtttt cttgaaacaa 960
gtcancngaa nttccn 976

<210> 4430
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4430
tnnnnctttn ctaattgncc cctnattngc nggttccaat nnncanngaa cgatcccatn 60
gattcgaatt cggcacgagg ttttttttt ttttttttc agttccagtt ccactttctt 120
tttatttaaa taaccgaagc aacagccgtg gcacagcaga gggaagctgg gttggggcgt 180
gtganangtg gcagcagtnt ggcctgatgg ggggactang tcacagtgaa ctccccacac 240
gcctntcagg ttcagcagtc atggccatag gattgggagc actacggagg agccatcagt 300
tagtgatgtc tctccaagtc ccanagacct tagggacggg agctaagtca gctccctcaa 360
gtagcagggc cagggcatcc cagtcagggg tcacggggcc cggaaggcat tttcagcagc 420
cccagcggct gcattggcag ctgcggttcg caccncangg ttggagaaga caccancagc 480
aaattcttgc tgggccttct naaagctggc acctgtgcgg cggtataagg agtggatccc 540
gtttcagcat gacaattcct agcacagcaa tgccantgaa gagcagggcg accagcacat 600
gagcaccgat actgcttgtg ttgcccttcg gcaccaccan agcagaatat ccaccctgaa 660
tnccaacctg ggatncaatg gcctgaggac aangacacat tctggacgaa gaaatganaa 720
naaaacnaga aatttgatga actgtactnc ggaaagcctt tacat 765

<210> 4431
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 4431
gcttcaatnc tttctaatnc ttggctaccg gntttctgca ggatccctcg attcgaattc 60
ggcacgagag aaaaacaaca gagagaaaaa gaatacctga gatatgtaga agctttacga 120
gcccaaatcc aggagaaaat gcagctgtat aatattactt tacctccact atgctgttgt 180
ggtcctgatt tttgggatgc tcatcctgat acctgtgcca acaactgtat tttctataaa 240
aaccacagag catatactcg ggcactacat tcattcatca attcctgtga tgtccctggg 300
ggtaattcaa ctcttcgagt cgcaattcat aattttgctt ctgcacacag gcggactttg 360
aaaaatctat aataagaatc tgaaattaac tggtagtatt ttggctttta cttaaaatca 420
tccctgagag agtatttaaa gaaaagctgt tcaagttata aaatatataa tctggaaaga 480
aatactgtct catataataa ttagattgta atcattgntt taatctctgt ctgggaacca 540
agattgaaag ctgacttact tctctcttct gtcttgtgaa ccatacggag cctattattt 600
taaaatatga tcagaccagt aaggcttctc ttactttgct ctggctctgg atcaggaaga 660
gctcatgtga aagtctttga gaatctctta tttatcatct ttctaaaact gngtttttga 720
gcctggacag tnctgaaaa 739

<210> 4432
<211> 1006

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1006)
<223> n = A,T,C or G

<400> 4432
tatctttnct aaaangnccg taantgcntg gttttaattn ccttggaang ctnacntgcg 60
ttncgnattg ggagncaggc ctcatcagga ccctgntgac tcgnggcgcg ggagctggna 120
gccaggctct ncgngccttt ctctggcttc cttggntngc ctgntggggg aagggnagga 180
ggagattaag gaaangnaag atgttccacn ntagantgat gaggtctacc ggtncaagac 240
catcncttaa nacgagnatc ccnancctnt gcctnnncga aatgtnanct cctnncactn 300
ggcnccnagt tatnagcccc tcngaannnt gtnacagccg gacgtcttan tncnttctgc 360
tcaangatgc tcnaacncan ncttnnattn ggttgncnga nnntgcggga tnncngcncn 420
natatcnnnc attgnntncn cttaantggt tcttntgncc ccctttnaat cccttccant 480
ttgaantcct tntgtggntt anaacgnntt nnngaattaa tanccnncnt ataccattan 540
antattggta cacnccttgn nttaccaaan ttncaactgg gacttttggt natattaaaa 600
ggntatntnt ttatnatncn ctccctattg gggcncnaat tcgtatttan agccttaaaa 660
ctcnctcttc tattntatan accnctnccn ntattntant ctncccaaan tttatataac 720
gncnaancct atcatntatt tctngcgcat ttccnngatt ttnnataanc atntntcatn 780
gggttataaa ncctnngntn aantgtnnnt ntctntncna nnnttnttnt nntaattttc 840
aantgtaccc natnatnnnn ncnaanaacc ttntgttnac ccngtttcna nancnnttt 900
tgnntcccat ttanctcann nggncttcnn ttaancannc ctggggnnta atntnnggga 960
nnnnctattt ntntgatntt taaatagtat antngnataa caannt 1006

<210> 4433
<211> 474
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

<400> 4433
nanccttaca agctacttgt tctttgtgca ggatcccatc gattcgaatt cggcacgagg 60
aaangncnag cantgangaa tgtntttggt ntttggagcc acattanatc ngnaanctct 120
atgactatat ccantgtncn ctcccancag canatngang ncatgcatgc ctcttttcnt 180
aactananan anaacnntgg gctcnngann ctgngttaca tcccannngc tttnatattg 240
cctcatggat tcattggaaa tacacgtgna tacacaaant cccanatnng tcttgcattn 300
tattttngan gcnngcttct ncaatannca nntntctntn ntnaaagatt atttgangna 360
acctaaggtc cgtgagtctg tnctntaact tattgatgac nnataagnnc agcattttcn 420
ntcncactgt cntnannnac ctgntggnat cagcntcant gtctnggtng nacg 474

<210> 4434
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 4434
tnnnnttttg aaantttttg aaatcnctgg nttctaatnt tnggcacgat cccatcgatt 60
cggggatggg cctatgattg ttcatgatga gcatggagga gtgtcggcag gaactttctg 120
tgctctgaca acccttatgc accaactaga aaaagaaaat tccgtggatg tttaccaggt 180
agccaagatg atcaatctga tgaggccagg agtctttgct gacattgagc agtatcagtt 240
tctctacaaa gtgatcctca gccttgtgag cacaaggcag gaagagaatc catccacctc 300
tctggacagt aatggtgcag cattgcctga tggaaatata gctgagagct tagagtcttt 360
agtttaacac agaaaggggt gggggaactc acatctgagc attgttttcc tcttcctaaa 420
attaggcagg aaaatcagtc tagttctgtt atctgttgat ttcccatcac ctgacagtaa 480
ctttcatgac ataggattct gccgccaaat ttatatcatt aacaatgtgt gccttttgc 540
aagacttgta atttacttat tatgtttgaa ctaaaatgat tgaattttac agtatttcta 600
agaatggaat tgtggtattt ttttctgtat tgattttaac agaaaatttc aatttataga 660
ggttaggaat tccaaactac agaaaatgtt tggttttagt gtcaaatttt tagctgnatt 720
tgtagcaatt atcaggtttg ctagaaatat aacttttaat cagt 764

<210> 4435
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4435
gnttcaannc ntttccaaat ncttggctct ngntcttttt gcaggatccc atcgattcgc 60
tcgcatcgcg cacttttttgg atcggcatct agtctttccg cttcttgaat ttctctctgt 120
aaaggagata tataatgaaa aggaattatt acaaggtaaa ttggaccttc ttagtgatac 180
caacatggta gactttgcta tggatgtata caaaaacctt tattctgatg atattcctca 240
tgctttgaga gagaaaagaa ccacagtggt tgcacaactg aaacagcttc aggcagaaac 300
agaaccaatt gtgaagatgt ttgaagatcc agaaactaca aggcaaatgc agtcaaccag 360
ggatggtagg atgctctttg actacctggc ggacaagcat ggttttaggc aggaatattt 420
agatacactc tacagatatg caaaattcca gtacgaatgt gggaattact caggagcagc 480
agaatatctt tatttttta gagtgctggt tccagcaaca gatagaaatg ctttaagttc 540
actctgggga aagctggcct ctgaaatctt aatgcagaat tgggatgcag ccatggaaga 600
ccttacacng gtaaaaagag aaccttagat nataattctg ggagttcttc actttcagtc 660
tcttcagcag agacatggnt tcattcactg gtctctggtt ggtttcttta atcaccccca 720
aaggtcgcga taatanttat ttgcccc 747

<210> 4436
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4436
gnttcaannc ntttccaaat ncttggctct ngntcttttt gcaggatccc atcgattcgc 60
tcgcatcgcg cacttttttgg atcggcatct agtctttccg cttcttgaat ttctctctgt 120
aaaggagata tataatgaaa aggaattatt acaaggtaaa ttggaccttc ttagtgatac 180
caacatggta gactttgcta tggatgtata caaaaacctt tattctgatg atattcctca 240
tgctttgaga gagaaaagaa ccacagtggt tgcacaactg aaacagcttc aggcagaaac 300

agaaccaatt gtgaagatgt ttgaagatcc agaaactaca aggcaaatgc agtcaaccag 360
ggatggtagg atgctctttg actacctggc ggacaagcat ggttttaggc aggaatattt 420
agatacactc tacagatatg caaaattcca gtacgaatgt gggaattact caggagcagc 480
agaatatctt tatttttta gagtgctggt tccagcaaca gatagaaatg ctttaagttc 540
actctgggga aagctggcct ctgaaatctt aatgcagaat tgggatgcag ccatggaaga 600
ccttacacng gtaaaaagag aaccttagat nataattctg ggagttcttc actttcagtc 660
tcttcagcag agacatggnt tcattcactg gtctctggtt ggtttcttta atcaccccca 720
aaggtcgcga taatanttat ttgcccc 747

<210> 4437
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4437
gnttaatgcc tttcnattgc ttggctctcg atctttctgc aggatcccat cgattcggtc 60
ctacccaaac ctgtggccgc cacttttgaa ttctcagatt gccctgaatt ttgccacttt 120
taaataatgt gctgaataag ctcagcaact aaaaaccatt acccaagaac gtttcttgtg 180
agtgagctga tttattctga ttcattatat tccttttggt agattttata ccccttgggg 240
aaataatata acaaaaacat ctcttaaaaa tgctgggatg gggccatatc tactagcaga 300
ggccagatgg tcagatatga tttctgcaaa cccatcttga ccttgagtat gtgaaggggt 360
actgtacttt attcctgata cattttggtt tccatgtagg tgttgagctc ctggntttct 420
gtgtttggat gatgaagatt tggacccttc cattcataat ccctttctaa gtgaagggag 480
aggctggctt ggctgntcct tgntattccg aaagccctgg tttggggccc atgttcacac 540
tggctctcag tctagtcagg tgcaatgttc ttgagaggtg gggacctaat tattaccaga 600
gtagcancaa gagaggaaac gttgtgaatt aagtattcaa ttnaaaaagg aacatgattt 660
ctacctgaaa aaangnanan gnncctnnct tgattanctt cntaatcctt nnnnatnnaa 720
ncnntcctna annantttaa t 741

<210> 4438
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4438
ggttanttcn tttcctttca atccttggct acttgttctt tctgcaggat cccatcgatt 60
cgaattcnnn ncgnggaggc ctncgcggca tctggnnncn ttgnnatctg nttngcngnt 120
ngagcgatnn tcggctgttg tggacacgcn tttnangctt ctgttgtgca tntannttga 180
ttcacatngn cttacacant gcctggangc tgtctnntag gctaatgcna cttncacatt 240
gggagataca cctgctgata gtggnnnatn gacncnctga nttaangtgn tggannngat 300
nngtnntttn anngnntggn nnaaactnnt cntattcncn tgatgnnact ttggatcnca 360
ctnctgaggg anatcngtna tggagcnanc tngggcnggn gnaccnnctt ntttttagaa 420
natgaaatca tacatctgng ngnntcagtg ntnnnctgga tatcngcntc tgnnttantn 480
acttccaccc anagcatnat angacctcng acttanccng ngtcnnagcc ttctganatn 540
nggnctggaa gnctgntngg ctnccttann nnnccctntt gagnatnatg atnnaacncg 600
gctttgggng gttcccactg atntgacact gnctangcaa gatncccaan gatggcgant 660

cntcttgcaa tttgggaagg aantccnttt tntncngctt gntagnatng ccttnnnnat 720
aaccttgctt tgaanttntt taaccccnnt aatccagntt ngannttgct ttaggtaaaa 780
nccaattgca ntcgnnanan ancg 804

<210> 4439
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4439
gnnnnnnntt ccccttttcta atcncttgga nntcgctctn tntgnangat cccatngatt 60
cgaattcggc acgagagaaa cacaggtgtc gtgaaaacta cccctaaaag ccaanatggg 120
aaaggaaaag actcatatca acattgtcgt cattggacac gtanattcng gcaagtccac 180
cactactggc catctgatct ataaatnngg tggnntcgac aaaagaacca ttgaaaaatt 240
tganaaggag gctgctgaga tgggaaaggg ctccttcaag tntgcctggg tcttggataa 300
actgaaagct gagcgtgaac gtggtatcac cattgatatc tccttgtgga aatttgagac 360
cagcaagtac tatgtgacta tcattgatgc cccaggacac agagacttta tcaaaaacat 420
gattacaggg acatctcagg ctgactgtgc tgncctgatt gttgctgctg gtgtnggtga 480
atttgaagct ggtatctnca agaatgggca nacccnaaag catgcncttn tggcntacac 540
actgggtgtg aaacaactaa ttgtcggngt taacaaaatg gattcacttg accaccctan 600
aggccngaag agatattgan gaaattgtta aaggaagtca gcacttncat taagaaaatt 660
ggcctacaaa tccnnganac aataancatt tgtgccaatt tnngggttgg gaatgggtga 720
ccaacattgc ttggagccca agtgnttaac aatgccttng gttnaaaggg antggaaaag 780
ttacc 785

<210> 4440
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4440
ngatatcggt cgctgagggg ccaagtggga ggcctngnna ggtgtggagg tggattccgc 60
tccgggcacc gatctcgcca agatcctnag tgacatgcga anccaatatg aggncatggc 120
cgagcagaac cggaaggatg ctgaagcctg gttcaccagc cggactgaag aattgaaccg 180
ggaggtcgct ggccacacgg agcagctnca gatgagcang tccgaggtta ctgacctgcg 240
gngcaccctt cagggtcttg agattgagct gcantcacag ctgagcatga aagctncctt 300
ggaagacaca ctggcagaaa cggaggcgcg ctttggagcc nagctggcgc atattcaggc 360
gctgatcagc ggtatttgaa gcccaacttg ggcgatgtgc gaagctgana gtgaacgggc 420
agaatcagga gtaccagcgg ctcatggaca tcaagtcgcg gctggagcan gagantgcca 480
cctacccgca gcctgcttag ggacagggaa gatcactaca caatttgtct gctcaaggtc 540
tctgaggcag cagctctggg gcttttgttg tccttggagg tgttttctgg tagagggatg 600
ggaaggaang gacccttacc ccgggttttt cttgactgca ataaaattat tgggcaagga 660
aaaaaaaaaa aaaaactcca gccttanaac tatanngngt cggnttctta aatccagaca 720
tganaanana nattnttngt ttggacaaac ccaacttnaa tgcnatggaa aaaatnnttt 780
tttttnnaa 789

<210> 4441
<211> 1450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1450)
<223> n = A,T,C or G

<400> 4441
ggnnnnncnc nnttttncen cncccccect acattcgaaa aaaacccccc cnttttgggc 60
ccaaaaaaaa ncccccccce cnttttgcna aaaaaccccc cttttggcna aaaaaacccc 120
cttttgggga aaaaaaancn ttnccncnan cnnccanacn gnnnnnncan cccgannaan 180
naggnnncan nannnannnn nnnngannan nnnnccncnn attatttttn nnnnnncnna 240
nnngnnnnan annnncnann aaannannna nnnncnnttn annnnnnannc annnncnnag 300
nagngnnnnn ncannanaan nnnngnnnnn nanaancaac nanaannngn gnggnnannn 360
annnannnng ngnggcacnn nnanacnaac anacnnnann nananannaa nacannnana 420
cngnccnnan nannanannn gananannaa naccaannnn nnnancnnaa nncannannn 480
ncnngaggnc cccccncnca ccanancaga aagaagacan ganannnnan ccagaangan 540
cncanannac aaanacaacn anacnaanaa caaanaanac aacanaanna anggcnnaaa 600
nnnnncaaac anaaannngc nanacnagga cganngcgac aaacnacncc nagacatana 660
caacanacaa nacanacnaa canaanannc naacannaaa cagaacaaga cncagncaga 720
cngnancann ncncganacn cnaacaacaa ncngccaann ncanaancaa ananacncac 780
anaacanana cnanagnnna aaaangaagc aaanacgana cnnanannng aagnanncac 840
ncacanncna nagcaccgac anagnganan gacanganag annnaancca acaanngaac 900
aaagacncgg nagnacaccn nacnnaagaa agcaacnaan ancnccacna acancngnac 960
acacacacan nngnganaaa canaccgnna acaanacang ncaaacgnan acnaagcaca 1020
nnncnnacaa gcgacnngng aaagacaacg acacancaga nnacgacgaa nngancaang 1080
nanagacgaa acacgnaccn nggaaannca aagnaacang cacncacacn ngacnacaaa 1140
canannncga cganacgnaa agaacgngna cncgnanann ggnacacaaa cnaancacaa 1200
cgaacgacan agacgcancc acgcncacan ngcccnanga nanncgagca cncagncgac 1260
gncgnananc acgccacaca ncnaacanta aannnggann nagacancng gnggagantc 1320
gacanngnga cacagaacac anacnncann ancaccnnnc ganacaacaa cnagcgnaca 1380
cnacgaacac anacancaca ccaacacgna caacangnac aacnnagacc nacnacccnc 1440
gaccccaacn 1450

<210> 4442
<211> 1450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1450)
<223> n = A,T,C or G

<400> 4442
ggnnnnncnc nnttttncen cncccccect acattcgaaa aaaacccccc cnttttgggc 60
ccaaaaaaaa ncccccccce cnttttgcna aaaaaccccc cttttggcna aaaaaacccc 120
cttttgggga aaaaaaancn ttnccncnan cnnccanacn gnnnnnncan cccgannaan 180
naggnnncan nannnannnn nnnngannan nnnnccncnn attatttttn nnnnnncnna 240
nnngnnnnan annnncnann aaannannna nnnncnnttn annnnnnannc annnncnnag 300
nagngnnnnn ncannanaan nnnngnnnnn nanaancaac nanaannngn gnggnnannn 360
annnannnng ngnggcacnn nnanacnaac anacnnnann nananannaa nacannnana 420
cngnccnnan nannanannn gananannaa naccaannnn nnnancnnaa nncannannn 480

ncnngaggnc ccccncnca ccanancaga aagaagacan ganannnnan ccagaangan 540
cncanannac aaanacaacn anacnaanaa caaanaanac aacanaanna anggcnnaaa 600
nnnnncaaac anaaannngc nanacnagga cganngcgac aaacnacncc nagacatana 660
caacanacaa nacanacnaa canaanannc naacannaaa cagaacaaga cncagncaga 720
cngnancann ncncganacn cnaacaacaa ncngccaann ncanaancaa ananacncac 780
anaacanana cnanagnnna aaaangaagc aaanacgana cnnanannng aagnanncac 840
ncacanncna nagcaccgac anagnganan gacanganag annnaancca acaanngaac 900
aaagacncgg nagnacaccn nacnnaagaa agcaacnaan ancnccacna acancngnac 960
acacacacan nngnganaaa canaccgnna acaanacang ncaaacgnan acnaagcaca 1020
nnncnnacaa gcgacnngng aaagacaacg acacancaga nnacgacgaa nngancaang 1080
nanagacgaa acacgnaccn nggaaannca aagnaacang cacncacacn ngacnacaaa 1140
canannncga cganacgnaa agaacgngna cncgnanann ggnacacaaa cnaancacaa 1200
cgaacgacan agacgcancc acgcncacan ngcccnanga nanncgagca cncagncgac 1260
gncgnananc acgccacaca ncnaacanta aannnggann nagacancng gnggagantc 1320
gacanngnga cacagaacac anacnncann ancaccnnnc ganacaacaa cnagcgnaca 1380
cnacgaacac anacancaca ccaacacgna caacangnac aacnnagacc nacnacccnc 1440
gaccccaacn 1450

<210> 4443
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4443
ccttggnnag nngccccctt naaanccttt gaaaaccctt ggcaaangcc ctnncngnnn 60
gatcccatcg attcgaattc ggacgaggag aggatcactt gagcttagga gttcaaatcc 120
agcctgagcc aacataacaa gactttgtct ctaaacaaaa cagttattgt ttaaagaatc 180
tgaaatcttc atctttaatt caggtagcac cgactcgagc ccaagtttgt ttgatatcca 240
gttccaagtc tggagagagg catctntatc ttattaaagt atcgagagac aaaatatcag 300
acagcaatga ccaagagtca gcaaattgtg atgcaaaagg gctatcaaag ggaggctttt 360
tacagagaac taaggaagag aaggaggttg ttaaagagac ttgagatcag aaaaagatca 420
agaacaactt gaatctcaaa gtatgaattt gaagtatttt gctgagcaaa catttgaatg 480
cctgtatgta ccgtaatcct ctatcactgg ggtccccaac cccggtacca gcccgtggcc 540
tgctagggac tgggcccgca cagcaggagg tgagcagngg gtgggcaagc cgaccattcc 600
cacctgagct tnccccctcct gtcagatcag cancagcgtt agattctcat aggagtgcaa 660
ccctattgta aactgccatg cnagggatct aggttgcacg ctccttatga ggaattgaat 720
gccctgatga acttgncact gncttccatc acccccagaa ngganctggc taacc 775

<210> 4444
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 4444
ntcnannngn gtccttggcc cttgctnttt ntgcaggatc ccatcgattc gccaacgagt 60
accagctgat tgactgtgcc cagtacttcc tggacaagat cgacgtgatc aagcaggctg 120

actatgtgcc gagcgatcag gacctgcttc gctgccgtgt cctgacttct ggaatctttg 180
agaccaagtt ccaggtggac aaagtcaact tccacatgtt tgacgtgggt ggccagcgcg 240
atgaacgccg caagtggatc cagtgcttca acgatgtgac tgccatcatc ttcgtggtgg 300
ccagcagcag ctacaacatg gtcatccggg aggacaacca gaccaaccgc ctgcaggagg 360
ctctgaacct cttcaagagc atctggaaca acagatggct gcgcaccatc tctgtgatcc 420
tgttcctcaa caagcaagat ctgctcgctg agaaagtcct tgctgggaaa tcgaagattg 480
aggactactt tccagaattt gctcgctaca ctactcctga ggatgctact cccgaacccc 540
ggagaggacc cacgcgtgac ccgggccaaa gtacttcatt tcgagaatga agtttcttga 600
nggatcaagc acttgccagt nggaaaatng ggccgtnact tactggttac cccttcattt 660
tnaacctncg cttgtnggga acaacttggg gaaacaattc cgnccgtngt ggtttcaaaa 720
cggaactggg cccnnggaca attnanttta agcgggcaat ggccaccctt ttgggtcaan 780
gtnccnaagc ctggttttt 799

<210> 4445
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(890)
<223> n = A,T,C or G

<400> 4445
gaaaggggag ngnannttttt naanggcgtt ctaatgntgg agcacgannc tanaaagcgg 60
gttnggcacg aggctgnanc tgcccgtggg caccacgggn acactgtctt ccgggacctg 120
ngggcccaga nnggctgggt gacgggnctt cctaacagag tacgcggggc ccctttttcat 180
ntacctgctc ttctacttcc gagtgcccttt catctatggc cacaaatatg actctacngt 240
ccagtcggca tacagtggtg cacctcgcct gcatctgtca ctcattccac tacatnaagc 300
acccggaata nagcccgctg ccccagtcgg aaaaaaanaa aatnaanann atancctnna 360
tgnataanca aaacttgngc ctnttaaanc ttagtgagtc ngaattacnt naaatccaga 420
ccatgatnga gatcccattg atgaagttng gnacaagccc ncancttaga aatgcnangg 480
aaaaaaaaat tgctttaatt ntgttgaaaa tnngcngaat gcncatnngc ctttantntg 540
ntnacgcnat tattnaagcc tgngtantta acccaangta tatccaccca acaaaatggc 600
atancaattn tatanggtnn nanngctntc agngngcgnn aggttgctnt ganagnggnt 660
nttcnnaatt ncctncggga nctgagngag ccccaaatag cntttggggg tcccnggntc 720
acctcanacn ttncgggata tannccntac gnaannanng gggtctaaan ttgggcncca 780
ccttgngngc gnnnaaantc tnnnngggnt cnaataannc ttnnttnntc ntnnngngtt 840
naanaatntg nanatatacn cncgtataca tanacanntc tcnctgnccg 890

<210> 4446
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 4446
nnnntgnnnn nnnntttnnn nngngcnttt tatagncngc tcttgttctt tttgcaggat 60
cccatcgatt cgcagcaggn ttgccnngtg gctgntatgg catctatann antttcaggg 120
ttnccntaac cnngggnccc ntgcnntgan tgacngtggg natcntgtng tggtaangan 180
cncaggacnc nttgnatntn ntggaaacaa atggnaacan anngtatcct ctnnggatac 240
tggctnccca nntggnttaa cacaggtanc agctgctcan nttnacctga gggatccaga 300

ggcnnttgtc aaactagcta ttcatggcat gctgccaana aaccttcaca gaggaccaat 360
gatggaaagg ntgcatcttt ttccagatnc tntattccag aanatntnct nangaatntn 420
cnagangagc ttnctcaanc ncgaaaanta cctaaacgtn tanatgagtn acacacgaag 480
aaatggacgc cttcccaaga ttgtggactc cacctgacna ttatcggcta tangagagta 540
anacttgnac anaataacag tgaagtgatt gaaactttct tctgangagt ttctctacct 600
acaggatgga gttaaacact gntacagntc acacctgttt tatgtgcnga atcactgtgg 660
ggaaaggtac tgacgtgtan nncttcaata gganattgga ttgaaatntc actttattga 720
accattttta tgtnatctga 740

<210> 4447
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1221)
<223> n = A,T,C or G

<400> 4447
anggccanng nnttttttcc caaaaagngg ccccnncttt ttccnaaaaa ccccctttt 60
gccaaaaaan ncgccttttg gggccaaaan anntgccccg cnngnncnnn ggttttggnn 120
cncnnaaaan nnnnnnnccc ncnnannnnn cncnnnnncn ncnnnnnnnn nnnnnnnnnn 180
cannanncnn nnnnnnnnnn ngnnnnnnan acnnnnnnnc tttttnnnnc nnnnangnnn 240
gnggggnnna annnnnnnnn cgnngnngca nnnnnnnngn ggggnanann ncaanngann 300
ggnccnccnn nagacaacnn nnncnnnana nnananacna annncncnnn nnnnanaang 360
nnncncnnnn annannncna nnnncngnnc ccccccncgc nccngncnnn gnggcgcaan 420
acntnanccn nnnggnannn antncgagan tgncnnaatn anngccncac annaagncca 480
naaccacaat ncnnnanaac tnctnnnatn ngaanacanc cagancccaa anaccnngnn 540
aacacnnaan nanaacccan ctnnaagnna cgccagnngn anncaccaan acncncaann 600
nccagnnnna ccnaacacca cgcnannnct naanacanac nananncaaa ncnatngncn 660
cacgagtgng taacnncnna accnacnaac acncagncgn ncanacncnc nannnncatn 720
accnacacnn cnncgnaaan acngacnaac aaatcnaana agcncnnnna ntnnancaag 780
nanatncnan cnnnacgacn tananantan ccacnnnana cacacacncg acgagncaac 840
aacnaccatn ncnngcacgn accnncngtc tnnncacaan acactannca nccacccgna 900
aagaagaaac tanccaaann tnnacgancn acctctnnaa gnnccgcnag annacnannc 960
acgncccaan tnacaccnna cnnccnnaca cncnaacgtn ccannacata acnngaacca 1020
naccacngca ngaannnnac annncaagnn annacancan ancnnggaac nnnagcgncg 1080
ancanccnac gncgcaannc gacanaagnt anagaagaac nacnaaacnn annncaaann 1140
naannaaacc tacccagann gtnnacacna cacantncnn cnnacgagcc gcatnnnncn 1200
ananacgacg gacancaacc c 1221

<210> 4448
<211> 910
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(910)
<223> n = A,T,C or G

<400> 4448
gnnntttcaa atagctaggc tactngttct ttttgcaggc atcccatcga ttcgtgttaa 60
tcgtgtggtg ataatcctgt cctcctttta aagcgaattc tctactgaaa ggtctgctct 120
gcttaaggag ctacaaactg ctctcaaaag aatgaaatac tgagttccaa ttcagtgagg 180

cacagtgttg gactatggca catttagttg gagtcggggg gaggtcagga atatgatcag 240
ataatggatt ttatacctta gagcaaaatc tattagtctc tctcagttta tcaatttaaa 300
tggctttagg cttatagggg gtgtaaactt taagaatata attctcccat tcaagtttac 360
agcaaacatc tagccacctt caaaacaaag aatatacaga ccatcattta gcaatactaa 420
tacatgattt tccttgggga tggcaggttt gagaatcctt tagcaacagg acatactttc 480
cctaaattan cnngggaatt atttttttac ccggggttaa aagctttca ggntnccaaa 540
ncttaaaggt gggggttgtc ttaaccaacc taaaaaaact tnttcacctt aaaattcttc 600
aaaaggaaga aaaagttnct ttggccaaaa attttggtaa aaagtttcca ccaaangggt 660
ggcaaaaacc attttttccc ctttcctttt aanggccntt ttnaatcctt aaagggaaaa 720
ggggccttnt ttgaaaaaac ttgggggccc ccaatctggg tanttaccaa gggccttcca 780
aaaattttac ccgtttttttt tnaaaanggg aaaggaaaat cttnttgncc aacctttnaa 840
gggcntttat ttggccaggg gaaaaatacc cttcnatttt ngggnantgg ttaaaaaaan 900
ttttatttgg 910

<210> 4449
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4449
gnntttnnan nnccngnttt ctaatnctnt tcnaatnctt tgnnancgtt ctntatgcan 60
gacccatcga ttcgggaatc tcctagaaaa gttgtgattt tcgagccata tccttctgtg 120
gtagatccta atgatcctca natgttggcc ttcaacccca ggaaaaagaa ctatgatcga 180
gtaatgaaag cactggatag cataacttct atcagcnaaa tgacacaagc accatatctg 240
gaaatcaaga agcaaatgga taaacaggac ccccttgctc atcccttact gcaatgggtt 300
atatcaagta atagatcaca tattgtgaaa ctgccagtta acaggcaatt gaagtttatg 360
catactccac atcagttcct tcttctcagc agtccaccag ccaaagaatc caattttaga 420
gctgctaaaa aactctttgg aagcaccttt gcatttcatg gctcacacat tgaaaactgg 480
cactccatcc tgaggaatgg tctggttgtt gcttctaata cacgattgca gctccatggt 540
gcaatgtatg gaagtggaat ctatcttagt ccaatgtcaa gcatatcatt tggtactcag 600
ggatgaacaa gaaacagaag gtgtcagcca aggacgagcc agcttcaagc agtaaaagca 660
gcaaatacat cacagtcacn ggaaaaaagg acagcaatcc caattcctgc caaagccgta 720
acttaaaatg catagncctt atgtgaaagg gatcaccttc atctggacct gcacaaacat 780
ggc 783

<210> 4450
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 4450
gntnngnnnc cnttntnagg gggtntaatg cngctctgtt cttttgcagg atccctcgat 60
tcgaattcgg cacgaggaat acctcaaacg tctaccatta cngtggggta gantttagcc 120
cacntntgcc tttncancnt angggttntt cntaagaaga antactttga ttctgaactt 180
gagcttatga catacattaa tgaaaactgg gatagattgc accctggaga gctggcngac 240
acaccaaaat ctgaaagata tgagcatgtt ctggaggcat taaatgatta caagaccatg 300

tttatgtctg ggaaagaaat acaagaanaa gaagcatttg tttgggttgc gaattcgtgt 360
tcctcctgtg ccaccaaatg tggctttcaa agcagagaaa gaacctgaag gaacatctca 420
tgaatttaaa attaaaggca gaaaggcatc caaacctata tctgattcaa gggaagtaaa 480
gcaatggcat ataaaaaaaa ggaaagaaaa aatctgtagg tcgtccacct ggcccatata 540
caagaaaaat gattcaaaaa actgctgagc cacttttgga taaaggaatc aatttcagag 600
aatcctactt ttggatttac cttggnctat agggagaact gagggaactg ccattcatcc 660
agtacctcag atgtgggatt ttacnggtgc ttncagtgca aaaagaaact accttcgcta 720
gcattttcng gccattatga ttattn 746

<210> 4451
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4451
gaccnatcgg ttngngagac ngcctnccnn tcnnncngcn tctgnnggnt gntnttttga 60
cacggtctcn ngtgaaagta cncacncact cacacgnnaa tgggcattgc accccactcc 120
tgctcaaagn gctgnacgcn gtcatgngta gaattnctgt acgcctgnnc tctgncccnt 180
anngcngant gggccacnnn tntntatgan cgcgacacca angtgagtct gacctttctg 240
acttgannna caangtttgn gggggctgnc attcgtgntt tnngngcnct tnnaancatn 300
ataggaganc ntnatnnncg actgggaacn nnctnnacac atnctatctg ngaantcatg 360
gggatcatng gaggaaaccc ttgtgctcga aaataacgtg ngtcaaacat gcactcatgn 420
gnccnggcnn accacncntn gnctgtttcc tacctaaggt ataccatggn atgnacactt 480
acngtaattn tgcaaagtng gcaaanatnt tctcanancg gagcctaacn gnctaaatna 540
aaggtntttc atnnccaggg ncttgttaat atnggcnaaa tntggcnaac aagnggttga 600
ctcactttaa aaggtgnaat aagattttcc ncatttnttn aaaaggaacc tggnngaaaa 660
agntaagggc caaanccttt aagncncttt ncnggnaang gtttggccaa atccggggtt 720
ggngggnncc aanaatgntt ttcaggagga tngggnaaac ttttttttct 769

<210> 4452
<211> 1366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1366)
<223> n = A,T,C or G

<400> 4452
ananaanann annnnnnnaa ggnnaanana nnnnnnannnn naanangnaa anananannn 60
tnnanaannn aagnngnttc nannctttttc aaagcttgga aaacgcannc aannnnnggg 120
aaagcaagaa agaacagcta aagnnngncn cagaganagc ttttangang tntangaaga 180
aggaatannn gnggncaata nnnnnannnnc ngaaantatc atganacnca aatganggan 240
aaggcagcac aagctgngca aacagctatn gngacggggg ggccgggaga gnctaaangn 300
cananatnca atatataagg actgcatgcn aagggatacn aaacaagnan actnntctag 360
gaagaaataa ntnttgacnt ancnnacntt cataacgaat agcaccgtac atcgagncaa 420
ccaactaana ggnctaagga aatggcaaan nacnttaatn nntgagcnaa ggaagggngt 480
atngnccnan anngaaatgc ntcntaacca anttttaatn gtaacggnat nangatnaan 540
ncntnanccc acgcaactca aaaanattac attanntaaa aaaganctat ancaaaacta 600
gtnttcaaaa tngnacgagn aaatgggnaa nantttntnn ccgggaaaat tggnagagat 660

ccanaaacac tggntnaggg naatanatgn ccgcccnaaa aaaccntnac cataggnatn 720
ggctancata gangagatat ancnatnagg ggatcaanan cntaggnatt ngaaaantaa 780
ncgagttaaa acancnagat nnggnantac gaganatagc ttggacgngt atcaaatcgg 840
accctnggat gggcntangg aaaaanaaaa aggntngagn gaanttcctc anaggaanng 900
tganagagcn aaanaanatn aagggccttg gngaaaangg aaaaacagat agngtcatnc 960
natatatncn natgananan tggggnaatn taatctacnn tanatnnggg ggaaaaaaat 1020
cnnncatgac nnnaaaanga gntaatgnna nnatgagaga ttaaacnnat aaaacnagag 1080
aantttgngn aaanctgnga gataaaaaat aaataaattc tntntggaac atntanaccn 1140
tctatnnaaa aaaaagaggg gaaaccatct ngattatgca cananaaatn tnacntngng 1200
gaaataaatn gggnacaata acatatatgn ggatgtacan tnntggncng aaaaactata 1260
caacntgaga nnnnacnang atataaagcn nnaggnagtn tatangggca tcatcaangg 1320
gaagntataa agcaactgna nnctcatata naaaactgnn cnncaa 1366

<210> 4453
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G

<400> 4453
tgatcctcag gcnnctggga tgacacgtna ancatagaag ctggaggagg nggnccngcg 60
cttgntcata atttaaaaaa attaaaanaa cgcaacagcc gcttttctta atccatatcc 120
cttttaanac acagaggcng gtaatnagtg naatagaaga atgntnttgt ntcttcctac 180
ggtgacngtt nttattncac nggnttcttt agcaggactg ttctactcaa cctctgtgga 240
anaaaactnt ccncagggct gnctaacaca nncagccttt gcttttacan cctgctcttg 300
cctattacca taccactgta tgtnttcttc cacctntgga cnnggatggg tattaaactc 360
ttnaggcatn antgatgcaa ctanagtcaa tatgctgtnt ntattaatga gagctcttgg 420
gcatccatnt cntgaaagct caantggatn gaattnagnt ngcggganag aggctttnct 480
ttgctcatat nacgctnatg gactggggna ggctnaaatt gcaaatgctg cttttaattg 540
cnctcttgga tcnacccatg aaaaattgga aggctcttga cnaataactg gtggngtcan 600
aaananaaca tttttgacnc nggtcatgnt ntggagaatg aacatcccta aatcnaccat 660
gtggaagacc natttcataa atncattcnt ntaanaaaaa attggnaaat ctttnttttg 720
ctttggtngg aacaactttn aangggcttt tgngcaaagt caccatggtt aangggatgg 780
acttgnaatt aaattncccn aaggaattna anggttgggg aaataatncc cctnttaaag 840
ggaaaaaaaa ng 852

<210> 4454
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 4454
tggttttnnn ngnggggggg ttttctaatt gcagtcaann tngntgtcct annccgntn 60
ccncnggncg cccnaacttg gaggtggccc gcttccagac catggaggag aagaaagcat 120
tcattnntac cactgaagaa agaccgaatt gcaaaggaag aaggagctta atgccaggaa 180
cagattttgc agttggtggg gtctcaataa aagtttgttt cagtggaaaa taacttttat 240
tgagacaaaa aaaaaaaaaa aaaactcgag cctctagaac tatagtgagt cgtattacgt 300

agatccagac atgataagat acattgatga gtttggacaa acnacanctn gaatgcagng 360
aaaaaaatgc tttatnngtg aaatttgtga tgctattgct ttattngtaa ccattataag 420
ctgnaatana caagttanca ncaacaatng cattnatttt atgtttcagg ttcangggga 480
ggtgtgggag gttttttaa ttcncggccg cggtgccaat tgcattgggc ccggtcccca 540
cnttttgnnc ccctttagtg anggtcaatt ncgcgcttgg ccttatcntg ggtcatagct 600
gtttcctgtg tnanatnnaa tgncnttnca cttttcnnac aattnaagtn gcnnnagaaa 660
tccancactg ncaanttggg ggcanncacn gcttgntaaa tnnggtattt ttcnaggagc 720
ttttaantan ntnggntcaa nggnacaagc nannttagct ccatnggctt ngacctccnt 780
tannaaccaa aatgnttnn 799

<210> 4455
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4455
gnannngccn cgnttttgat tccccttntt caaatccttt gnnaatcgcc ctcnctgttt 60
tgatcccatc cgattcgaat tcggcacgag atggcagttg cttttgaagt atatgatgnn 120
ttcctccact acaaaaaggg gatctaccac cacactggtc taagagaccc tttcaacccc 180
tttgagctga ctaatcatgc tgttctgctt gtgggctatc ngcactgact cagcctctgg 240
gatggattac tggattgtta aaaacagctg gggcaccggc tggggtgaga atggctactt 300
ccggatccgc agaggaactg atgagtgtgc aattgagagc atagcagtgg cagccacacc 360
aattcctaaa ttgtagggta tgccttccag tatttcataa tgatctgcat cagttgtaaa 420
ggggaattgg tatattcaca gactgtagac tttcagcagc aatctcagaa gcttacaaat 480
agatttccat gaagatattt gtcttcagaa ttaaaactgc ccttaatttt aatatacctt 540
tcaatcggcc actggccatt tttttctaag tattcaatta agtgggaatt ttctggaaga 600
tggtcagcta tgaaagtaat agagtnttgc ttaatcattn ggaattcaaa catgctatat 660
ttttttaaa aatcaatgtg aaaacataga cttattttta aattgntacc aattacaata 720
aaaataatgg gcaattaatt tttnaaaact ttttaaaata gnatgctcat atttttaaaa 780
ataaaanttt tnc 793

<210> 4456
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1095)
<223> n = A,T,C or G

<400> 4456
cgnnnatttt nccgcccctc ctgggaaaat cnccttgncn ngtgaaaaaa cncntgggtg 60
aaaaacccct tttggcaaat tttcgttgna aaaannntnc ccccgannnn gnnnttnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnttttt ttttcnnncc ccnttttttt 180
tttcngnnnn nnnnnnnttn nnnnnnnnnn nnngnggggn nnnnnnnnnn nngggggggn 240
annnnnnnnt nngnnngnnn nnnnnnnnnn nnnnnnnann cnnnnnnnnn nnnnnnnnnn 300
nnnnnnannn nnnannnnnn nnnnnnnnan nnnnaannnn nnnnnnnann nnnnnnannn 360
nnannnnngg ggggcggggn gnncgnnnna cgacngnana nnagnnacna cngaananan 420
nagnannann nnnnnanaaa annnnnanag nnaanacgna gnaanaanaa gnnnnaanaa 480
ngannacgnn nnacanannn cnnanaaann nacaaacnan acaanatana nanncncnag 540

annaananac ncnagaanaa aannaagaan nnaagcnngn nncgnaanan ccctaacnca 600
nanngaaagn acngananan nnccgagann aanagnnaag aaagnaacan agnngnnaga 660
ngagaaagac nannagaacn anaanganan angcannnng cncncnctna naaananana 720
nnatananga tnnaancgnn ganagnaann acnagnncga cgcgnnngan anngaacgga 780
nntcgnnnan gggnnnaanc acnncncnaa caagnanang cgagagtcaa nanncanann 840
nanancngaa nannannnag nngnaanana nanacanacn anaanangnn nanagacaga 900
ngcangannn ngcgcnanna gnagnagagn nnatnangnn tananaagnc ananacgaca 960
nnanaacgtn acgccgnncn ananangaga nnnnganaan acgngagaga gnagaanagn 1020
acanaganan agcnacgnnn gacagcanaa acganncnan aagcggnaaa tanngangcn 1080
agnngnnnga cagcc 1095

<210> 4457
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 4457
tttnttcctt cctctaatcc ttttancgcc tttctgcagg atcccatcga ttcgaattcg 60
gcacgagggg tcctccaaga gtttggggcg cggacnnnag taccttgcgt gcagttatgt 120
cggcgtntgt agtgtntgtc atttcgcggt tcttacaaca gtacttgagc tccactccgc 180
agcgtctgaa gttgctggac gcgtacctgc tgtatatact gctgaccggg gcgctgcagc 240
acggttactg tctcctcgtg gggaccttcc ccttcaactn ttttctctng ggcttnatct 300
cttgtgtggn tgagtttnat cctagcggtt tgcctgataa tacngatcaa cccacngaac 360
aaagcngatt tccaaggcnt ctgcccagag cnagcctttg ntgannttct ctttgccagc 420
accatcctgc accttgttgt natnancnta ggtgnctgaa tcattctcan ttncntaatt 480
gangagtang anactaaaag aatgttgact ctttgaatct gctggataag agactngaga 540
tggcagctta ttggacacat ggattttctt cngatntgca cttactgcta gctntgctan 600
ctatgcagga gaaaagccca tagttactgc gtgtnacaac aactntctaa cnaacattca 660
ttaatccann ngannccttt caangaatgg taancctatg ccnttcaana tactgaactt 720
nntgccactt ntggcaaaaa aaat 744

<210> 4458
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 4458
tatcacatat acacatatgt gtcccatata cacatataca catatgtgta cccatataca 60
catatacaca tatgtgtacc catatacaca tatacacata tgtgtaccca tatacacata 120
tacacatgtg tacccatata cacatataca catgtgtacc catatacaca tatacacatg 180
tgtacccata tacacatata cacatgtgta cccatataca catatacgca tatgtgtacc 240
catatacgca tatgtgtacc catatacgca tatgtgtacc catatacgca tatgtgtacc 300
catatacgca tatgtgtacc catatacaca tatacgcata tgtgtaccca tatacacata 360
tacgcatatg tgtacccata tacatatata tacctgtgtc ctatatatac acacacacac 420
atatatatat ctatatacct acatatatat acacacatat atatatacct ggatcatttt 480
ttaaaatgct caacagtaca cacatgtaac agcatttcag tcaatggntg gactgcatat 540

ttgatggtgg cccataatat tataacggac agaaaaattn caatcaccta gtgaagcata 600
gcacaatgca ttaattactc ttggggttgg ggggcatggc tggtgtaaac aaacctacca 660
tgctgncagt nccataaaca tatagcatat atagggtata tattatactt naataataac 720
tatggtgntg gggtaagnat ttaatgnatt taccatggnt ttaaaganaa ctcctcctac 780
ttttttccaa aagtactnta aaacanncn 809

<210> 4459
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(840)
<223> n = A,T,C or G

<400> 4459
agggccagtt tgatcattcc aaagatggtt ggttaggccc cggccctatg ccagctgtca 60
caaagcggca aatggacact caagaaccaa gatgatatca acctccatca agacagctcg 120
gaaaagtaaa agggcatcag ggctgaggat aaatgattat gataaccagt gtgatgttgt 180
ttatatcagt caaccagtat taaaggcctg cctgatatac aaccctcgaa tgcaacacag 240
tgtccttctg aggccactct aaaggccagg aaaggtttgc taagaagtct gtgctgttaa 300
aaacagaaga aaaagaccct tatcccattg ctctgtgtct ggtggctata gggatagtat 360
ttcataaaaa aagaaaggca aaaataattt tcaaaaatga ttcaagaaat gctgtcaaag 420
atagcaaaag aacagagtcc tcagagaaca gtgcccagga caggataagc actcaataac 480
atataacact gggtaatgct tgttgagtgc tggctggttg ttgagtgcta nctattggtg 540
gagtgcttgt tgttgagtgc taactgctta ntgctanctg gtgnttgagt gcttggttgg 600
ttgaagtgcc tnncttgttt ggttgagtgc ttgttggttg aaatgcctac ctggttggtt 660
ganntgattg ttggttgant ngctaaccnn ttgtttnatg cntnctngtt gttgaatngc 720
tttgtngttn aaagctaacn tgtttnttgn atgctttgtc ctggcctggg gcccttnttt 780
ttaccccttt gatgtnccat ttnttccatt taactttccc caattncccc ntttgggnnc 840

<210> 4460
<211> 980
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(980)
<223> n = A,T,C or G

<400> 4460
ttcctaatnc tnggctctcg ttctttttgc aggatccctc gattcgaatt cggcacgagg 60
aagccnaatt gaattgtggg aacaggaaca ttcaaaggca tttatggtga atgggcagaa 120
attcatggag tatgtggcag aacaatggga gatgcatcga ttggagaaag agagagccaa 180
gcaggaaaga caactgaaga acagccaggc tggtcttgaa ttcctgacct caggtgatcc 240
acctgcttcg gccttccaaa gtgctangat tacaggtgtg agccaccacg cctggctaat 300
tttgnatttt tagtntaaat gggggttntt ncaaagcttg gnctttgaan ttncccaanc 360
ttcanggngg aatncccncc nccctttttgg gcttcccccn aaatggcttg nggantttcc 420
annggccntt taagcccaac cnttngcccc cnggncctgg aatngntttt ttttgaaatg 480
gaatttttttn taaaaaaatg ggggtttttn cnaggccatt tttaaaaaaa cccntttana 540
acttggattt ttttaaaatt attattttaa aatttccttt ttttaaaaac ctccaaattn 600
ttaaatgggt taaaatattt taccttggtn anccaccttt aacttaagcc tttttcntgg 660
aaanggtttg ggtccntttg gagaatnaag aatttggaaa aaatggacca ggtttngttt 720
ggatttttct tgaagggtaa attttacccc caaaatttaa aattattatg gtattgtggt 780

accntttgaa aaaaaaaaca tnttntannn cttntntnct ctaanncctn cttntnntat 840
aaaaaaacct ncnnngggcc cttttaaaaa ccttttttgn ggggnggtcc ctttttttac 900
cngntanaat nncccnaacc ttngatttan ggnnannnct tttgnttgaa atttttgnnc 960
aaaacccccc aatcttttgn 980

<210> 4461
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4461
tgggnnnnnn nagngtnggc ttttcttatt ntggctgtaa ccgntngnag cncgcacnca 60
aannggctgg gncgaattcg gcacgagggt tggaacagca gcactataca tgaaatataa 120
accaaanacc tttactgttt ctaaatttcc tagattgcta ttatttggtt gtaagttgag 180
tattccacag aaagtggtaa ttatctcttc tctcttcctc cattagaaaa ttaggtaaat 240
aatggattcc tataatggga gcatcaccac ttattaaaac acacatagaa tgatgaatta 300
aaaaagtttt ctaggattgt cttttattct gccacattta ttgataaaca gtgaaggaat 360
ttttaaaaaa tttttaagaa ttgtttgtca cgtcattttt agaaatgttc tacctgtata 420
tggtaatgtc cagttttaaa aatattggac atcttcaatc ttaaacattt ctatttagct 480
gattggttct cacatatact tctaaaagaa acttttatgt tataagagtt acttttggga 540
taagatttat taatctcagt tacctactat tctgacattt taggaaggag gtaattgttt 600
ttaatgatgg ataaacttgt gctggtgttt tggatcttta tgatgctgag ccatgttctg 660
cactggtgct aatgtctaat ataattntat atttacacac ataccgtgct acccagagat 720
taatttantc catangaacc attgacccat tgttcattga c 761

<210> 4462
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4462
gnnnnnnnnn nagngtttga antcctcctt ngaaatcctt tggcnactcg ctctttntgc 60
aggatcccat cgattcgaat tcggcacgag gggcaatgca gttataatac tgtgttaatt 120
tcagacatct tctggtcctc cgagccttgt atttacatac tagctgaaac tgcaagtgga 180
aatgaatgga gctgatgata tttgccttat cctaattttt ctgtgaggag gagaaaaaca 240
cttgtgcttc aaataagcag atgtgaaaac acttctcact aatcaaaatg tttaccacta 300
ggttatgaga gtctgcctct cataggcagt gaatctgata tgtatactta gtaatataag 360
tctatttagt ttgacaaaac cttagagcag aatttttgca gcttagttca ggatgatcac 420
tagcaatgcc aaacttcatt ttttattgaa cttggatcca agaaggcctg ctgtgtctat 480
ttcagtatag actctcatac caatatattt atgctccaag tcactacacc cagaagtgat 540
gcagtggggg aaatgcaaag acaacatcac tgtaagattc acagaatgga tcttttgtaa 600
aatattttat attgacttaa ggaaaacctt tcattgggaa ttaattaaat taagtctcta 660
atatcctgga agacagtaaa aantnaagcn ggtgntctca antttgaacc cggcnattng 720
naatttcatt ataggaattt ctgaaaataa tcc 753

<210> 4463

<211> 913
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(913)
<223> n = A,T,C or G

<400> 4463
gcgtcccntt tcaacnttgc taatcgctgg ctatcgttct ttctgcagga cccatcgatt 60
cgaattcggc acgaggccat gggccgccgc cccgcccgtt gttaccggta ttgtaagaac 120
aagccgtacc caaagtctcg cttctgccga ggtgtccctg atgccaagat tcgcattttt 180
gacctggggc ggaaaaaggc aaaagtggat gagtttccgc tttgtggcca catggtgtca 240
gatgaatatg agcagctgtc ctctgaagcc ctggaggctg cccgaatttg tgccaataag 300
tacatggtaa aaagttgtgg caaagatggc ttccatatcc gggtgcggct ccaccccttc 360
cacgtcatcc gcatcaacaa gatgttgtcc tgtgctgggg ctgacaggct ccaaacaggc 420
atgcgaggtg cctttggaaa gccccagggc actgtggcca gggttcacat tggccaagtt 480
atcatgtcca tccgcaccaa gctgnataac aaggancatg ttattgatgc cctgnnncag 540
ggccnanacc nagtttnctg gccttnntan cntanngatn ttngaganaa gtntcatttt 600
aactttnctn tgnctatatn ncaanggttt tannttttngt ngantgaaaa agcgggcttc 660
atcccaagat ggnctgtggn ggtcanagtt ncattcccna gtngtnnncc cttntggana 720
anttggctgg ccccttgcac tcattgacgg ccttcncaat tggtgctnna nccccctttt 780
taatttcttt aatcnaatnn actttattac ctttncctgg ctctaanctt aatnntctca 840
tctncatctn taatntctna cactaccnan nttttnntca ntattcccnt cnaacctnat 900
caaacttttt ncg 913

<210> 4464
<211> 1274
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1274)
<223> n = A,T,C or G

<400> 4464
tttttngggg gggtttttttn nnnnnnnnnn gggggnnttn nngggggggcn gnttttttncc 60
ttaaaanagn ngactggnnn ngctgaaaaa ctcgggcctt gggggannnn gncccccccnc 120
gaaaaacanc agggaaaaaa angggggggg ctgggggggg gggnnnnnnan nnnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnggnnnnnn nnggnnnggn nnanngggnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnngg nnnnnnnnnn nnnnnnnnnn nnnnnnangn ggnnnnnnng 300
nnnnnngnnn nnnnnnnnnn gnnnnnnnng nnnnnnnnnn nnnnnnnnan cnnnnnnnnn 360
gnngnnnnnn nnnnnnnnnn nnnnnnnnnn nnngnnnnnn nnnnannnnn cnnnnnnnnn 420
nnnnnnnnnn canaagggnn nnnanncnnn nnnnngnnnn nnnnnnngnc nnnnnnannn 480
ngnnnnnann nnnggnaaga angnnncnna cgagnnnnnn gannnacgan nnnngnnaan 540
cnnnnncnag ngccgnatna gancacgaat nggngagagg ancngannan gnnggnnnnn 600
ggnnaangnn ncgnnaanga annggnacca gnnnggannn cnnnanngga ngncnnnagn 660
nnnngnnggg nnncnnnaac ncnnggggnn nannanngna nannnggnnc tnngggnnnn 720
nnnnnnannn nnnnnnaann nnnnnnnnnn nnnnnnnnnn cnnnggnnnn gggnnanann 780
nnnnnnnnnn nnnnnnnann nnnnnnannn nnnannanng nncannnnnn gnnnnnncnn 840
nnnnnnnnag gnnnnnnnnn nannnnnann ngnnnnnnna nnnnnnnnnn nnannnggnn 900
gnnananann nnnnnnnnnn nnnnnnnana ngggggnnnn nnnnnnnnnn nnnnnnnnnn 960
nnnnnnnnann nnnnncnncn nnngnnnnnn nannnnnnnn ntncnnnnna nccnnnngnn 1020
ngnnacaann ncnnctngnn ggnctnngna ngnnncncaa nannnntnnn gnnnnnnnnn 1080

tngnngncaa anangggnan annnantnnn nnatgggngg gggacnnaan tnnccnccct 1140
nattcaanna ntggnggaaa aaactggngg nnnaanantn aaaccccaga nnggcnnaaa 1200
ntcattcctt accaaaaggg ttangacctg gnaancctng tgggcnanaa aggtnctnaa 1260
acattcnttt nanc 1274

<210> 4465
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1039)
<223> n = A,T,C or G

<400> 4465
atggnnnnnn nnnnnnnttt ttttggaaaa aaannnnccc ccctttttt ncctnaaaaa 60
attgggccnt tttggggcaa aaantttngg ccctncttcn tnctttggnn tnttgnnnat 120
ncccccnatt cgggnatttt nccggaaaat ttccggggcc naccggnagg gggnattagg 180
ccctttnana nagncccaaa nggtntntta cccaaagggn tataattttt aaagnnatgg 240
gggnaccagg gtgtntngcc ccaatttagg aaagggaaat tttntctnaa atnaagttgg 300
gggtntannt ggccangtgg ttacctnggg gcattnggna aatatnttct tgggaacttg 360
aggtntaaac tggaanggga gnagccctna aacctatagt aacttcannt ccccacaagt 420
atactagaat tngtgcatcc tcgatttata ttgcaagngt ntcaaangtg tcactgnnac 480
acaaatagaa acactgccaa cttggtgtaa cttaagctnn catttaacta aaacattntt 540
ttcttgcaaa acttatttat tcatgatcaa ttttntggtt atntattata ctttgattcc 600
taaattagtn catccttgaa tctatgaaac tggtgcagtc attatgcccn naaatnntct 660
naaaatatat taatgggtca ccttnctgnt caaaggggtg gtgcaanggn cttgcagcat 720
tnttacatnt tgtgctttgn tangaaaatg taaactctna ggctccacaa nttnactttg 780
ctgcattttt taacaaanaa tccccaangg gatatgtaat gctcataana aatttgggac 840
anctgggttc nantggaaaa angggntctn aagggnatgg cataaacttg gtggtnccgg 900
tnanggnttt naaggccttt tccaacttta nannnnnttc tgattttgga antnttccan 960
tnggntntaa naacctnnnt tatatatcna anattagggg cctttnaaaa aaannncttat 1020
ttnngctagn aaaccntnc 1039

<210> 4466
<211> 931
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(931)
<223> n = A,T,C or G

<400> 4466
ggaagcgggg gggtacgttt tncaaaaggn ntttcaatng cnggtgaacg cccctaaana 60
nnnanccatc ganacnaatt cggcacnaag ggcttccgnn taaaccantc angggtatnc 120
cnatgnntaa gncatcctng gncngnntat aacnggnccc attcanctgt nanatananc 180
ttcnanantt ntcnacanng gnnnanattt tnnntctgca atnnnanagn naaccttntt 240
nnnncnnnnt aangaggcag nnagctacct ttgaangaac tacttgnnaa cntnntnttg 300
naattcaang nnaanccntc ttnttntcna nntnnttant gttgcnnnnn nctcaantcg 360
tatnnncatg ngggctccca tcacntnntt acttataant antngnttan aaannntngn 420
cctantatag ggnnatncnt nttnnnnnann nnnntccntn caaatcccaa tctngnaang 480
aattnnccnt ttctgnaatn caattattna angannaatn gntnnnctan tncattnann 540
nnctantant ttcncnncnn nncnttgnaa ttcncnttat acccantaaa tngctactnt 600

taatnaggat tnanagtacc cannttgcnt ttnttncaca antntaancn ntgcattatn 660
taaaatcann naagncgana aattntnntc naaccccnng cnncaaanta ccnatttcta 720
atanngacnt annngnnnnn annnccctaa nannatatac nanatntntt nccnnacant 780
ccnagagtag aantcccctt nntcacacnn ntctctanta cncntnaatt ttcnntacan 840
atataaanta ntttntctna ttaangnnnn ntnnaaantt ctancnaann tanattancn 900
ancctctnan ataatcnttt ttnnngnatn c 931

<210> 4467
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4467
cnaatncttg gctactcgct ctnttgcagg atccntttg acgcntttgn acgnccgtat 60
ncttcaacca atgtctagtg cacntatcct ntntaacnca naattctcaa acccagnttt 120
acaacattgg gtaggatnct ataaagngct aatcntattc tggatnatga cgaattttgc 180
atgctaantc tttgnancnn gtcnccccng aagntgcntt acatgtacag attcgtgtaa 240
ccacgtgtaa ccacataaaa ctnatgaaca caaagtccct catgctacct tctatgctta 300
cactcnancc aaacctaacn ctgccaaccn ctnntctccn atcaggatca ttncntcann 360
tcatgaatnn ganagaantn aaattgtnnt tgcacatggt atntataaat tttatatnga 420
taagccatnt gaatgcttat ngatagagag tctgtgagct cntggcattt ctggcactna 480
gcanattacn cctaaggntt atatgagtag annaanagnt gtattancat nannttntac 540
caccatgnat cngacccgat gaaannnggt natatntgag agtngtgtac aggatttnat 600
gtgnaaattc gnatnnattc ancgatgaga natattgcac tgttntcccn ggtcntaacn 660
gccctggnat naaanatgcc ttgggaaaaa tgttatcaaa nnaacntnna ncagcccnan 720
gggnaaaaac cnnangaant tcagaggcnt cntngnacca antntggagg nnnaaaanac 780
cngggncncc tgganantaa ttcc 804

<210> 4468
<211> 1116
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1116)
<223> n = A,T,C or G

<400> 4468
tantacntan ctnanccntn tggcntnagt ccgtccncta tcgcntgtng cttaaattac 60
tgncgcgtta aacgtcggac tggaaacctg cgtaccaact aatcgcctnn agcaaaatcc 120
ccttttggca gctggcggta aaancaaaaa ggcccgaacc gatcggcctt tccaaacagt 180
tggcgcaacc ctgaatgggc gnaatnggaa ccccccctgg taagcnggcg ccaattaaac 240
cccggccggg gtggtgggtg ggttaacccc gccaaccggt ggaanccggt ttacaacntt 300
gggccaagcg gcccccttaa accggccccc ggctttccct ttttcggcnt ttttcntttt 360
ccccctttcc ccnttttttct ttcggcccca accggttttc ggcccccggg gcnttttttt 420
cccccccggg tccnaaaggc ccttcnttna aaaaattccg gggggggggc cctttccccc 480
nttttttaaa gggggggttt nccccccgaaa tttttnaaaa ttgggccttt ttttnaaccg 540
gggggnaanc ccctttggn aaancccccc ccaaaaaaaa aaaaaacttt ttgggaaatt 600
taaaggggggg gtnggaaatn gggggttttc caaacgggtt naaantnggg ggggncccca 660
atttcgggcc ccccccttggn aataaagnaa accgggggtt tttttttttc ggnccccccn 720

```
tttttgggaa ccggttttng gggaaggttc cccaaccggg ttttcctttt ttaaaaataa     780
aggnggggga acttcctttt gggtttnccc naaaaacctn ggggaaaacn aaaacaacct     840
tttaaaaacc cccttaattn tttcnggggn cctnaatttn cnttttttgg gaattttnaa     900
tnaaanggag gaatttttt ggccccgaan ttttccgggn cccttaattn ggggnttaaa     960
aaaaaaaatg gaaagcctgg aantttnaa accaaaaaaa aatttttaaa ccgccgnaaa    1020
nttttnaac cnaaaaaata nttttaaacg gcctttnaac naaaattttn cccttggaag    1080
ggccnggggg gnaaaaaaaa aatttttttt ttttt                              1116
```

<210> 4469
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 4469

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aatncnagct ctcgntcttt ttgcggatcc catcgattcg ctagttcgag ttttttttt      60
ttttttttt catgaaaata tagtcatcaa atttattttc attgggatgc catttttga      120
agaattccta agactaatgt ttcttgacat gcaagagtta gcattaatag cttacgttac     180
tataaatact gctgcttgga agcagtacaa ctgttttaga gttttaagac tacagacttt     240
cattactcaa atcttattca gtaaatgtaa aaatcagaag gttctgaaca gctggttagg     300
aaggtagcca agatgcagga aagatgtctg cgcctccttt tcaagggcag ccaactnttg     360
aacagtaggt gcccaaaata tccacatggc ctttatagct ttcaccacca gcagcccttt     420
tntgaccgta ggtaactttc ccatcaaatt catccactgg tacctttata tccggntnaa     480
cctgagaaat ggtncagttc aggngttctt ctatctcaga tagtaactgc atctcgttgt     540
accatatggt caagcctcat cttccttgag tcttggggta taacaccctt ttccacggnt     600
gctacataca tggnaccnaa ccataaggaa caccgnggat atcaattcct ntagcagntc     660
atctgngcaa atcaagaatc tttacatctc cttcttaaan cttttccaag tttgcctttc     720
tctcatgggc cattggaaat ttctcaaaat aatgaccagg ttttct                   766
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<210> 4470
<211> 926
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(926)
<223> n = A,T,C or G

<400> 4470

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annnnnnnnn annnnnngnn ggngnnnnna nnnnnnnnng aannannnnn nnnnnnnann      60
annnangggg gnnnaacnnn nnnnannnnn nnnnagnttg aattcctaaa gccaaaccnc     120
nnntttggca ggaagcannc agnccngggn tccgcaacgc nggnaagngg acagnnngga     180
aaanaaatnt ttngcagaca aggatgtcaa gggnggnggc gggngnataa cacncggcaa     240
gtgggacagc nttgaacaan aacnagnagn cgncnggaac ngcctaaccg gagccnanng     300
ctcgaanaag gaaataagga agccacangg nangcagacc tcactganac atgaacccag     360
cgcanaggtg gcggancngc ncnaaangac nagagaggca nagngaaaaa anncatnaat     420
gccngncnng agaatgaana acagcgctac aacaggcatg nggatatggg aaacaacnan     480
tggggacnag anacnnaggg aangnacggg annaaaaaag ggggggantt naanncnccg     540
anggagggng cgagnacnca ntggaaagaa agggaagaca ntncacggaa ancnganctg     600
acaaangatg aatangnggc cacagggagg aagggaactg gcctgagagg gaanaaancg     660
gnacnnaang aanggaaccc agggccaagg gcaccaanaa gaaaaaancc ccngaaaaaa     720
```

aganggggna ntatgngcct ggggggggna aaagcccacc aanttaaagg canaaaaggg 780
gggggnaaaa acnctggnnt nncaancaan aagggggggc ccncccgggg gggggnnccc 840
ncgaaaanaa aaacnggggg ggggnttnan gnggggngga nncncacccn ncccnngaaa 900
aaggggggca aaaaaaaaac cccccn 926

<210> 4471
<211> 924
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(924)
<223> n = A,T,C or G

<400> 4471
acaccttggg tgcnngcacc gcatnanaac ccantcccac cacannncan gagcnngtng 60
nncnctnttg gaggnggcnn agngatgncc cgaatccgtg ggctactagg gagccctcac 120
ttgggctacn gggtggaggc ccatgatatt gnggcctcaa agatgttatg attcacctcc 180
atcaannccc ngaantgaat aattcttcct atcanttaat nanggtgatt acccagnaga 240
atgccattnc ggtntgcntt ggtatttnac aaaaagaanc tgggggaacc acttgggtgt 300
gacattttat gggttnaaaa taatgatctg gnaaattgcc ccggatccnc catgggggaa 360
tgatagatcg acaaggtcta cttcatggtg ggagatatga ttaaangaag ncnatggcca 420
ttgnggttng gaaataatcc ananggantt ncanccaatt actgnaaaaa aanttnnttg 480
gaagnggnca cccctaaaaa tctntcccag ttnttagagn atacccntta cttccttaaa 540
naagggattt gttgaaannng ncantttttnc aaatntaatn ccaaacanag gncnaccctt 600
aatnaccntn gccaaagnag cnngttttgn ngatttttcc caaaagggag naanattcct 660
ttccngnntt tggcgaaact gtagnanaat tcccnnnttt gnggtgggcg gnnnttagcc 720
cnnttctaaa aaaanggang ngaaccccct tgtgntttcn tattccagag cccgctnntc 780
ctcngtaaan aananaaata aangnccant tnttttatnn anagaaattg ggncccaatc 840
ttanggacnc tttttgtggg aancttatna ttcccnnaca tacacaaaaa aaacancctc 900
nccgnccccc ttnnnaactt tncg 924

<210> 4472
<211> 902
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(902)
<223> n = A,T,C or G

<400> 4472
ttcagaagaa cgcacagatg aaatgacaca taaagaaaca aatgagcang aagaaagatt 60
gctcgcccag cttcttcact aaatcatccc gcagcagcag ggactcggtc tagcaaggcc 120
atcttgttgc cggacctttc tgaaccaaac aatgagcctt tattttctcc agcgtcagaa 180
gttccaagga aagcaaaagc ttaaaaaata gaggttcctg cncagctgaa agaattagtt 240
tcggatttat cttctcagtt tgtcatctca cctcctgctt taaggagcag acaaaaaaac 300
acatncaata agaacaagct tgaagatgaa ctgaaagatg atgcacaatc agtagaaact 360
ctgggaaagc caaaagcgaa acgaatcagg acgtcaaaaa caaaacaagc aagcnaaaac 420
acagaaaaag aaagtgcttg gtcacctnct cccatagaaa ttcggctgat ttcccccttg 480
gctagcccag cttgacggag tcaaagagca aacccagaaa aactacngaa gtgacaggga 540
acaggtcttt gggganggacc agaaagaaac tgtntttctt ttnccaaagc anaattttac 600
gccaanaaaa aatgcttgtt antttttttg gggaagattt ttaatgtacc cccttntttg 660
gtaaaggtca ntcaaaaaat aggtggnggg gattanttna aaataatntt aantttgggg 720

naagnaaaaa ataantttn tttttnaaan ttntttggtt aaaaattttt ttntggttaa 780
aacaagaaag gggcttttca anttaaggtt aaaggtnaac cttcccntnt tgggnggngg 840
aattgggttt caaattcccn cgggccaaaa nnnttcccta ntttttaata ttttaaanac 900
tt 902

<210> 4473
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 4473
gnnnnntttc naatnccttt cctaatacna gctctcgttc tttttgcagg atcccatcga 60
ttcgaattcg gcacgaggac ttctgaagaa catgaagcaa gcagaagggt gaaagcggag 120
ctgctggttc agatggatgg tgttggaggt acttctgaaa atgatgaccc ttccaaaatg 180
ggtatggttc tggcagctct aattttccct gggatataga tgaggcttta agacgacgcc 240
ttgagaaacg aatctatatt cctttgccgt cagcaaaagg cagggaggag ctattaccaa 300
taagtctacg tgagttggaa ttggctgatg atgttgacct tgcaagtttn tcagaaaaca 360
tggaagggta ttcaaggncc ggcatttcca acgtgtgcag ggatgccttc cttgatggca 420
atganaaagc ncnttgaang ttttgactnc caggaaatcc naaatctttt cnaagaagaa 480
atgcncatgc ctacaactat ggaggatttc nagatggctt tnaaaaaggg ttctaagtca 540
gtgtctgctt gcagacattt gaaaagatnc cagaaatgga tatttgagtt tggatcatgc 600
taaattctcc atgtnaactg tgagaaatgt gcccttaagt ggtttgaata ttaaatgccc 660
gtaattcatt ggactggagt gcttatattt ttttttaact ttcattaatg gtaagaattt 720
tttttaaaaa aaancccttа tgaattcttg naataaaagg ccaatatttt ttnaagcctg 780
gaaaaaaaaa aagccctntt agaaactntt tgtgga 816

<210> 4474
<211> 878
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(878)
<223> n = A,T,C or G

<400> 4474
ttcctaatnc ttggttctcg natctctgca ggatcccttc gattcgaatt cggcacgagg 60
ggggaaaatg acagaggaaa aagagaaant ggancagana aaaatagtgg aagaaatnat 120
agctaaaaaa ttcagaattc agtgacangt agaaatttac agatatcnga tcatatgctc 180
aagaaacacc aatgngaata aatatttann antcccacgc tggttcttgc aaacttttтg 240
aaaaccaann ttgaanagca aatnttgnaa gcacatgata aaagccatnc cnnnaatnat 300
ccagttaatt ggcttgactt cttactggaa acccttтnnn accanaaacg gncttggaat 360
aaacnttttc aagggttctt ntaaagaana attcgnaaaa ntnttaaccc ccaatttttt 420
tttttttaa nntgaaagac nccncttntg ttncccaggt tggnagtttc ccnttccgnt 480
gcccnngcct tangnnaact tttttggagg ggganactcn tntgactttt nnnccnnggg 540
ntnnnccttt nnttncctng cccnntttcn tnttttтgac nttttttntgn gcnntncang 600
gcnttnaann ccnntgaccc ccttcnaant ncatnggngg gaaacngggg ntaannggca 660
tangctcttt tatttaagaa agcaccccnn naatcccccc aaacttttct tnaattnacc 720
cttttnggga cccctctagg ncngcttnnn tgntttaccn ngntccncca aanttncnaa 780
cttggnaaac nntnttgnaa ntccnggggg aatataggna cctttggaat ttttaaannc 840

ancctnantt ggcnngccct ttgggccttt anaaanct 878

<210> 4475
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 4475
gngnntntat agcangctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga 60
ggtcaaggct cagtcgccag catttcccaa cacaaagatt ctgaccttaa atgcaaccat 120
ttgaaacccc tgtaggcctc aggtgaaact ccagatgcca caatggagct ctgctcccct 180
aaagcctcaa aacaaaggcc taattctatg cctgtcttaa ttttctttca cttaagttag 240
ttccactgag accccaggct gttaggggtt attggtgtaa ggtctttcat attttaaaca 300
gaggatatcg gcatttgttt ctttctctga ggacaagaga aaaaagccag gttccacaga 360
ggacacagag aaggtttggg tgtcctcctg gggttctttt tgccaacttt ccccacgtta 420
aaggtgaaca ttggttcttt catttgcttt ggaagtttta atctctaaca gtggacaaag 480
ttaccagtgc cttaaactct gttacacttt ttggaagtga aaactttgta gtatgatagg 540
ttattttgat gtaaagatgt tctggatacc attatatgtt ccccctgttt caaangctca 600
gattgtaata tgtaaatggt atgtcattcg ctactatgat ttaatttgaa atatggnctt 660
ttggttatga aaacttttgc agcacacttg aaaagctgnc tgtggatcat tgng 714

<210> 4476
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4476
ggttcancga atgcctgtgg aanccgccct tctctncagn agcccntcga tncgtnntga 60
actatcaact agatcnggga agatagaaca ggcnttttnn ncatngcctc gttnacaaag 120
ngtcatcacg aaaagtgttc ctctaggaag gcataatatg tggccngatg gatgtgatga 180
gtagattgta aaagggttgg gattctggca gaacangaan agatnactna attattggaa 240
tcaactgaga aaagagnnca ttagcatgcn ggctaataga ccctaatana acngggtgtg 300
aaaagatggg atctggacct agaggcagtc ttagagccat aatnctngat ttctncttnn 360
ngngaaagcg acaggtactt ntggnctgag gccataaatc agntntatcc taaatggaaa 420
actatatncc actggggatg gtaatcaccc tttngataag aaagggtaga anccacaatc 480
ttcaacagaa atggaactta tcaatntaat tnaagaatcc tcaacagtac anttttaagg 540
nnatggaacc ccctgtgnna ancccangtt ccnactgcca nngcctnanc aatcctatta 600
tnactgatta gcnnganaaa agaangcngc ancccnttnc naatttttcn tttancnncn 660
ggnantnccc ntgaaaggta ancccccttnt naaaggggga aattcnaccn nanggaggcn 720
nnnnggcnng gngaaattnn ccttgaaccc cccnaggcan aaangttgct tnttancccc 780
agancc 786

<210> 4477
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 4477
gcgntctaat gnnngctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
ggaagctccg agtacctgcg tgccctcttt gtctacgaga agggggctcg ggtgcttctg 120
gttccagaca ataccttccc cttgggctat tacctcatcc ctttcacagg gattgtggga 180
ctgctggttt tggccatggg agcagtaatg atagctcgtt gtatccagca ccggaaacgg 240
ctccagcgga atcgacttac caaagagcaa ctgaaacaga ttcctacaca tgactatcag 300
aagggagacc agtatgatgt ctgtgccatt tgcctggatg aatatgagga tggggacaag 360
ctgcgggtac tcccctgtgc tcatgcctac cacagccgct gcgtggaccc ctgctcactc 420
agacccggaa gacctgcccc atttgcaagc agcctgttca tcggggtcct ggggacgaag 480
accaagagga agaaactcaa gggcaagagg agggtgatga aggggagcca agggaccacc 540
cttgctcaaa aaggacccca cttttgggtt ctagccccac tctttccacc ttctttgggt 600
cctttagccc cagctnccct ttggtttttc ctggggcctt tnaacagatc ccccactgtc 660
cccttccttt tnccctgtaa tcctggncta ataacccccc acaacttaca cctttggggg 720
acc 723

<210> 4478
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 4478
naatagcagc tcttgttctt tttgcggatc cctcgattcg aattcggcac gaggctgtcc 60
actccagttg cccttggcta agtttagcct aacacacagg gttttgaccc atagttctaa 120
aatacacaaa ttttgagact acagcacttc tttggaaaga ggaagaatgc aaagttcagt 180
atttcaatac tttgtatttt acttgaaatt acccttagta gcatcttttt tttcctgtct 240
gaaagctttt gtgtggatga gaagggacat ttcatttcct cccttaacaa agtgtcattc 300
tgaggttctc atgtgtgttt ttggaaatag agatactggt tttgtagagt ttgcctttgg 360
gtatgttntc tttttttctt aaatctccaa ggaagagaac tgactaaaat agtaggaaca 420
tgaaagtatt aaatgccaat taatttgttg tagtaaagta tcttcattag cgttatactc 480
catcatatct ggtgtaaact gctcacagaa aaccctatga aaccaaaggg ggaccattca 540
ggtctaaaaa gcgacaggtc ccgagactgg gtctgtcacc tgggcatttt caaagaggac 600
attttggaag aatttgcata ttcagatttt taaaatgcac ttaacatact tcattacaga 660
attcttgggt agggangatg ggataggcca nggatgggat ggaatcagtc tgcctgggaa 720
cttaatnccg aatcatttan ccttctggat taacccttgg ncng 764

<210> 4479
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 4479

gaggaaatca gtacgctgag gggccaagtg ggaggccagg tcaagtgtgg aggtggattc 60
cgctccgggc accgatctcg ccaagatcct gagtgacatg cgaagccaat atgaggtcat 120
ggccgagcag aaccggaagg atgctgaagc ctggttcacc agccggactg aagaattgaa 180
ccgggaggtc gctggccaca cggagcagct ccagatgagc aggtccgagg ttactgacct 240
gcggcgcacc cttcagggtc ttgagattga gctgcagtca cagctgagca tgaaagctgc 300
cttggaagac acactggcag aaacggaggc gcgctttgga gcccagctgg cgcatatcca 360
ggcgctgatc agcggtattg aagcccactg ggcgatgtgc gagctgatag tgagcggcag 420
aatcaggagt accagcggct catggacatc aagtcgcggc tggagcagga gattgccacc 480
taccgcacct gctcgaggga caggaagatc actacaacaa tttgtctgcc tncaaggtcc 540
tcttgaggca gcangctctg gggcttnttg ctgtcctttt ggagggtgtc ttcttgggta 600
naagggatgg ggaaaggaaa gggacccttа ccccccggnt ntttttcttg accttgccaa 660
ttaaaaaatt tttggtncca agggaaaaaa aaaaaaaaaa aaaactccan ncctnttaaa 720
actattagtg aggtcgtatt accttggaat ccnganattg ataagaatcn nttgatgant 780
tttgggncaa accnccactt tnaatgcccn ggaaaaaaaa tgctttnttt gggnaa 836

<210> 4480
<211> 1174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1174)
<223> n = A,T,C or G

<400> 4480
ttttttnccc tttnaaaaaa antttggggc cccnttttтt nttttтcctt naaaaanttt 60
nggggncccc ttttttttтt nnttnnnntg ggncntatng ggnaaattcc ccccccnaat 120
tcctgttaat tttttccggg cccgggaaaa aaggtttccn ttttcngggg gtttcccccc 180
ncgggccnaa cntttccggg tttttccntt tcgggaaatt tcctttccgg ggggttnccg 240
ggaaaccccn ttttncccaa aaaggttttc ccccaagnaa attccccggg caaaccggna 300
aaaanggggt tccccnaaaa ggntttcccc aaaagggttc ccccttтnng gnttncgggg 360
ggttcctttt nccaaagaaa tcctttcngg tttttccggn cngggggttc ccaaaggggt 420
tcncccnggg gttcttttgg ggtnccaaag ggnaagttcc ctttтccccc aaagtggttc 480
ccaaaaagaa agggggaaat cncnaantcc aaagnggtcg ccgatcgaag agtnccccca 540
agtctcctga agaggaagga gcggtgtcct cttaagaaaa tgatgtatcg gcaagcagtg 600
taaacggagg acttggggaa aaaggaccac atagtccatc gaagaagagt ncttggaaca 660
agcaactggc tattgaaaag gttattttgt aacatttgtc taacttttta cttgtttaag 720
cttttgcctn agttggcaaa cttcatttta tgtgccattt tgttgctggt attcaaattt 780
cttgtaattt agtgagggtg aacgactttn agatttcatt attggatttg gatatttgag 840
ggtaaaaatt tcattttggt atatagtgct gacttttttt gtttgaaatt naaacangaa 900
ttgggtaacc taaattttgt ngggncttcc tggacttttt naagggaaaa acgttgttgg 960
ccaggnccnt ttctacaacn aggccntaaa angcttgttc aaagaagatt ttggacntcn 1020
gggganttтg gnccntttaa ntttcctttt aaaaatttaa aaaaaccctt tccaaaaaag 1080
tttnggtggg taaaaatttg gngatattgg ggttantttt tacccttttc nnnaatcttt 1140
taaaatnngg ggtaattttt gggaaccccc aacn 1174

<210> 4481
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 4481
nctnacacng nncagatngc accaccttat ggnactncac acatntngng nntaattgcc 60
tnnaatttgn nnaangggat ngcctagtgn tncntgnctn cagaagggaa agtggnntan 120
atagaaaang acanccnngg ctatatacac ttaanngngt natagaannn ggctactgaa 180
gtcnnngact tntannattn aaancctaaa tcacttnttg tnggacggtt ttcatntacc 240
tgccanatat acagcccann accnatngnt ggngtgaggn atnnntgtgc cgggnttctn 300
tntnanttct aacacccnna gttgccataa anntactccg gnntattttg nntgctcnca 360
aacttgattt ttttttttctt aaccaccgct tganttagtg gtcctcnatt nnggntnnag 420
aaggatnccc acntgaaagg ngatnaactg gtcgnnccan aacanttgtg tggntctctg 480
tcacttttca agnccatnta gtttnctaan anccgcgggg tattccnctt tccnngccta 540
tttttttttnc cntganaaca ttcngtnant ttanaatcng ggggaangac ccccttttnaa 600
naaactgngc ccctaantgt tggtttncac ttncncggac gnnttntttt ccaaaaaagn 660
ttgctttccc cncnttccan aaaggaacna attnttctta aanaancttc tnntcncctc 720
ggggaagaag gcccaagngc ctttgggaaa ccncaagggg gacccccnnc cntggacaac 780
tnannaacnn nttccnggng cccaaacctc ttnanttggc ntnncccngg tccttanaac 840
ananaaangg gcgganntnt 860

<210> 4482
<211> 1407
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1407)
<223> n = A,T,C or G

<400> 4482
ntttccaaaa tagcttgggn aaactccnag agcnatttag nganactttg aaanccttg 60
gaaannccna annattnnaa aanaanacng nnannnttn nncaganaan nnancanaaa 120
nnnnacnnng ggtttttct aaanaacncn cnangataca aatgagaaga naatnnaaaa 180
aaaaagannn nnntnannaa ttnnatnaaa nacngagtgn aanngaaacg cnnnaaaaaa 240
aaaacanata ttaaanaaan tttannnaaa naagngnaaa annacacatn ntcnaaaanc 300
nananantnn aancnanana nntntatatc anctanntna ntannnaaac ntatnatnaa 360
nttntanata ncnanatgna nnaaacagna acnnatannn nnaanaatgn atatgtnnta 420
acnatataan tntnttagan aganatgata nntntaaatn nnnnactata tanataagaa 480
tatatnacag agcncctnca canatgatac actgancnna tnntanantc aanngtggac 540
tntnnganta taananggan nacanactag acnatnnntn gaaaaganaa atngnggana 600
canannagnt tacganatna nanacagncn natanncnan ntntgtcana natanatagt 660
ancnancaaa gaanatggan nnnacgacan ntnccgtaca tcnagacgnt cttactatac 720
atacnagagn gagancacnn ncnacactnt gcntnnnaac atntgtanna nntanatana 780
tanaatacac acnagccnnc atatattaca cgnagantga gnncnctacg tanantatat 840
atanncatcn ngaananatn tnacangtat acncgtanac ntacagagtc atnacacgta 900
antctagtna tctnttnang aacantntta anangatatn attnnaaang atatnagant 960
ctacgtangc gcgnaantna atntacacat cnanatatag acnanacgtg atntnanana 1020
tganatacta tganaacnnn tcnnaacact nacatatnta tanaaataca taagagtana 1080
catncacaan cacatacaga gananaanna cacanaanan atacataatn aananantca 1140
tgantanact taatcacgna aaanttanna agcnattnaa cganngaaca ngntacntat 1200
acggntanaa tacncataaa ntancancta nanaannaaa gnnnnnntnn cacanannac 1260
tnaancatga cgatanataa cangnatctc aatantnaga cntatgaaca aaantagacg 1320
aanagtaata tatatcnnta gatnantana nnaacgagac cactgaacnt ntnnanatat 1380
ntaanacatn aactacaata ncacacc 1407

<210> 4483
<211> 755
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4483
gcgacgcgcc ganggnaaaa ccccnaggcg gannncaagg acgcggagnc ggcacgaggn 60
gagagagatc angccgcacg ggccncttna nnnccccccn cgncgnaann cagcaggcgg 120
gnccagtgtg cnctgcatcc ncacccgnga ggccgacgac actatcannc ccacnnatag 180
gnggaggaga cagaggcaca gagcgcccaa agccccacag cnggcgagcg gcagggcnag 240
cgagcgangn ccactagacn ggngacagac gcagaagccg cgcannncac ccccgggaac 300
nggaagacaa cnccngacga gcgagaccca ggagaacgca cagncnagcc agaaaangnc 360
nngcaaccgc anacangcan cngacagaaa ngcgacngcc cacggaaaaa gcgagcaacg 420
gaacnaagag accaacnagc ngccgggggc aagggaancg ggcancnngg cgncanacna 480
agaccgaanc gggaagccgg acccaacccc aaaacggcca aaggggacan accacaaaca 540
gggnanccca aaaacaccaa anncnannca caanccgaag gaaaaggccg aaaccaaggc 600
ccgaggncan ggngagcacc aacngaagcc aaaccgggnc agannncaaac ccgnaancac 660
ccaggaggca ncaggccggc cccngggggа nccaggcaag gnncccgggn aaaancccca 720
gnnccnngcc cccnggnncc angggggaaa ccccg 755

<210> 4484
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1273)
<223> n = A,T,C or G

<400> 4484
anggnnnnnn nnnnnnnnnn nnagtttnnn nnnnnnnntt tttttncccn aaaaaaattn 60
gggcccttтn nttttccaaa aaaatggggc ccttttтggg ggncaaattt ttttncagan 120
nnncnnnang ttttttggaa aaannccccc ttttttgggg naaaacnnnn nnnggnnnnn 180
nnnnnnnnnn nnnangnnng gggnnnnana nnnnggnnnn nnangggnnn nnnattnttt 240
ngnannnggn nnnnntnnna ngngnnnnnn tnnnanannn tnnnnnngnn nnnnnggggng 300
nnnnttnnnt nnangggngg ggnannnnng nanannnnnn ggnnggggnnn nnnnngnngg 360
ggannnnnan atannnnnan nngngnnnnn nnnanntnnn ngaatggnna annnnnnnta 420
aggggnaacn nnngngcnna aaannannan gaggggagga angnacngaa ancnnagagg 480
tanngaanaa aatcgcacgg gaacntggga aacnaaanna tcnannnctt aacnaanatn 540
taaagnaaca naaagcnnng nancanngnn tgnnctgtta gnagatctcn ngnaacaatt 600
tntaaangga tnaaatctnn angnaagagn agctnngaan ngnanangaa aangaannnn 660
naaacngang annacanata aacnaagngn aaggtnnctg gantanaaga ggatnaagaa 720
cgtngaaanc annaancana nanaactnga tgcccanctg agnttnnaac nnattatnnc 780
aangaaaant gncntacatc anattgggaa natctaagcn tcanaaaana attnnagnan 840
agnatncctn ngtatanaaa ctnngatnct nngnacgaag ctataanaat aannggaann 900
nnncataann gnannaanna aataatntat nntggtnngn gncntatann taagnaangg 960
catacaagat natataagan aagntactat naanatncnt ngggaagnga ntcnacacac 1020
tantntntnc ccnntggang nnatnagatn anncnanttn ngnntancnc nnctgtcatn 1080
ntnaaagaaa ngttnanaca ganatcctcg anatananaa agncaaagac anaggnanna 1140
caaacttngc nnannncaaa ngtcacttcg tantnnacat ngnaatanca natnatnnnn 1200
anacnncgna angcacaaaa ngtananana catnnataaa aannntngnat gntcgacngn 1260
agaangctcc ncn 1273

<210> 4485
<211> 1240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1240)
<223> n = A,T,C or G

<400> 4485
agggnnnnnn nnnnnnnnnn nnngagggtn gnnnnnnnnn nntttttttt ncccnaaaaa 60
aantgggncc ccctttnnnn tgccaaaaaa aaatngcccc cnttttgggg gcnaaaanat 120
cngggcccaa ancccccaan gcnntttann aanccggnng gnttttcccc tngggtnggg 180
ccccagggna aaannggaaa aaaggtntna aaaaaaaatn acctntgggc ctttaaaagg 240
gaaaaaaggg ggggnagggg ggggggnggt tgggggggga aagggggggt ngggtnangg 300
gggaagggaa gggggnaaag gggggnaggg gggaaaaacn gnnnnnnnng ncgggggaaa 360
naangcnnnn cnannnnnnn aaannnnnnc nnnncnnccc nnnnnnncca nnnannnnag 420
agccncnggn nnnnnanaan cacannnnag gccgcccngc nnacgnaagg ggccngggca 480
ngaaaaanga aaacagcnan ncanncncnt gantgcatnc cgcactgaaa gganggncaa 540
acacnggang aggnnnnnnt ccnaagannc aagggcaaat naaggaccnt gggnncnntn 600
ggacacntaa agnaantgna ncggatgnct nccanatgac agagangact gggnngcang 660
ggnnatgatn aaaagtaacc canngaagaa acgngnnnna nnaccngata anncgntngc 720
aanctngana acggcngaac cnnnnncacn agcannnnnc ncnangcana anaancnata 780
ngaaaannngg gnnntanagg gggggntncn cacanaaaan ggacntatgn ganagcnggn 840
caccanannc naaancnaaa ngggggnant gaacnatang ggggcnggnn nnanaggggc 900
nanngngnan canatanann ccntngnggg ggcnagtaan ananccngga gcncggncan 960
ccanaaannn ccgccanaan ccaggcannc aannnnccnn gngannncca gccnatnnca 1020
nganggantn aaanaggnan cgngcaaaga gccnacgana gcaanngnna cnatnnantc 1080
anngaaacgg cnnaaacnnn agagncgaat cancgacacg ggcaaacant naatagacaa 1140
ncacaannca ngtnngngag aagtaacncc ggctncatnc aaaacnnccn cgcntaccca 1200
aanngnacnt ccannnnnnn aanaaanacn gtgcncgacc 1240

<210> 4486
<211> 1444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1444)
<223> n = A,T,C or G

<400> 4486
nnanaanana ntaantnant nanannannn nganaannna nnaanannnn annncnnnnn 60
annnnaanan naannatnnn anganannan aaaananata aanannaann anaanaaang 120
anannnnann nagangnnan nnaaannatc naannannna nngannaagn nannnncnna 180
tannaagagn aagggnnatn annaaagggg gagcnnaaan angnganngn ggaanatngg 240
angnannnan tnaaaannnn ananananan ggggagagtt cctaaaggtt gggnaaaaac 300
ncacnncnca aaaaaagacg agnaatgggc antggannaa aactatcact aangnnacca 360
nnncacaant nannnggtnn caacactaan nnantnnnan tnctangnga nganattaan 420
cnntnnnnnn nttnnnaatc tancatcncn cantanntan cnnnatnaan ntcnnancta 480
ancannnnan nnagannncn attgaaaaat tanaatatnc acnatancaa annaacancn 540
antaatnnaa naannaannn naaganannng ccaancatcn anagncnana annacaatcg 600
naacntaanc ancnattant tatntnncaa anganattaa nnacnngctn tatntaaaac 660
tacatantct naanncnaat antatntaat nnatntanac acanatcana gnagnaaaan 720

nagntaanaa acntctnnga ctantaanat atctaactnc acaaaagata aaatcannac 780
gtatacgant tatnganann actcnacaaa ntctatnann aaangnntca canagtancn 840
tnaanaanan tnnaacatna gagcatngcc acaangtata nnaatataaa ntagtancac 900
antatnnctc annnaacata tnnatanngn tatnntggag ctanannagt ctnannnnan 960
agacacatnn ncanaatann tatatnnaaa nanaacaata ngtncntgat nnannncnac 1020
ncacncacan atacantnca tnaanacatt nacacaannt annanaatca canctaacat 1080
ctcatnnata cnannntcct tcacatannn tcnnactatn tantcactnn aaaaacataa 1140
nannanggac aactnnacnc nctaatntac canatnncat anangatana tagancnana 1200
acaaanatta gaantanata naaaatttaa acgantcata naaatattnn aannanacac 1260
atancncanc aatannaact acnattanat catnacanaa ntantcgacc ataaananac 1320
ataaatanta tnannaanat nannntaagg ccanncanat taaatcacat atatntatat 1380
anatnanaat gncagaagat atananncna taactaaaan tanacatnta atantcncta 1440
tnng 1444

<210> 4487
<211> 1390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1390)
<223> n = A,T,C or G

<400> 4487
ggnnnnnnnn nnnnnnngna nggtttnnnn nnnncccctt ttttttgcc naaaaaaaaa 60
ttngcccccc ttttnnttgc cctaaaaaaa ttgggncccc ttttggggnn aaaantttt 120
ttcccgnnnn gnnnnaaann ttttttnnna aannnnnnnn tttttnnnnn nnnannnnnn 180
agggnnnngn ncnnnnnnnc ttnnnnnnnn nnnnntnnnn nnnnnnnnnn nntggnnnat 240
tttttttnn nnnnngncta tnggnnngna nannnnnnnn nnnnnnannn nnnnnnnngn 300
gggggganant ntntattnta nnnngnannn tnnnngaggg nnnnnnnnta ntnggnngnc 360
ganngnnnng atnaannntg gcnntgnngg nnnnanatat nanatnannt nngncannna 420
atnngnnnan nnnnnnannag ggggggcggc annnacaanc anttaagcta anaaattncn 480
antnanntgc tgaantgaan gaacatncan annttaacan nnctgnangg ctanntgaag 540
ncaanatggc ttcaannaan gcntnntang gacttanggn tacnggntat naggnacctn 600
cttanntnnt nctaaccnta tctngaacgg nctncacctc nnaaattgna ctantatnnt 660
aaaaannatc atnatnanat ntnngganaa ngctgtcaaa aantnnnnna ancnnnnngg 720
anannngtat ctanntnnac ntggaatgnc ntaaacctat aaaaaannan gnnataaaan 780
ntcaacnnan annnanacnt aaatntanac cntntaaagc ncntanacnn atttcgagnn 840
cctngacaat anttttaann tcatacaaat gtgnngggan antncntata cacgngggta 900
nantgnacnn nnnatcttgn ggtanaagnn tnctanagcg ntatntnntt agnggnnaan 960
atantntntn gaggtatcat gagnntaact ctcnnatnna nntcgatnta cctcacgtng 1020
tgtgnatatn nntncantnn atctctanat ncntatanat atcgcanaan atntacanca 1080
cnnnngtnaa tatantnnnt annntntacn ggantngagc tctacagatg ttntcganna 1140
anattttang anaaaaatag gtacanatan ntgngggnac tnataaaacn nganggnnnn 1200
tnntttnnaa aaggnnnnac agnactttcn atnaatagga tataactcca ngagcnactt 1260
tancccanag atcatntcat acgncgngna annnnnncta ncataagnct nttgagccna 1320
tacnngctnt atancnacan gnatannnca tnnggaaagn actctatnan gatnnanann 1380
cgcncanacn 1390

<210> 4488
<211> 960
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(960)
<223> n = A,T,C or G

<400> 4488
ttctaatngc tngctctcgc tctcttggag gntccctcga ttcgaattcg gcacgaggct 60
cgtgggaggc tgaggcagga gaatctcttg aacctaggag gcagatnttg cagtgagcca 120
agattgtgcc agcctgggcg acagggtgag gctcttgtct caaaaaaaaa agtccacatc 180
ttcatgaacc ctnagactct ggagttgggg tgtcggcttt tttagcccag cttttgtggg 240
aattgccttt tgacctatta aagaangaaa gtggggtaat gggagtncca gccactcaag 300
agactnggat atccccccccc aaaatgggtt gggttaccna gcttttgnnc ccentnggaa 360
aaatgaaaat ctnaaacctn tntcanctgg gnttttnncn tttgccaaan ttcatttttng 420
ngtttttaaa nttttttctt aattnaccan ttaaaactcc cttatttttc ccatggttct 480
tncaaggggc cccttggggt ttnaacanga acnacccagc tttnganttt ttaanaagcc 540
angaccattn tgggcggaaa ngaaaaaacc aatggggcaa tttggaaatn ggtgnccnga 600
agtncccnnn accaaaatng tttaatttta attattaccn cccattccna aaatttttna 660
aggaanaaaa aantggnaan tttccttttt angggtttcn aaaaccccctg ggaaattnga 720
tttttaaang ccncnaaatt taaaaaccct ggtttgccaa angttccaaa naaaaatnac 780
atnttacnat cctcttcata cctaatcnct cnactacctc aatncttnnt ncanatctnt 840
caactnttna nnattnccat tctngatatc canntnanat aacnnatnnc ncntanaaan 900
ntnnttatct nanataatnn ttctgcnatt cnntctcatc cctctnatnc tcnnnntnct 960

<210> 4489
<211> 1024
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 4489
aatncnaggc tctcgttctt tttgcaggat ccctcgattc gattcggccg aggattccga 60
gtgtttacta agcctgttga ccctgatgag gttcctggtt atgtcactgn aataaagcaa 120
ccaatggacc tttcatctgt aatcagtaaa attgatctac acaagtatct gactgtgaaa 180
gactatttga gagatattga tctaatctgt agtaatgcct tngaattcaa tccagataga 240
gatnctggag atcgncttat taggcataga gcctgtgctt taangagana ctggctatnc 300
cnntaattta aagaaaaacc ttttngaaac cttttncngc tnnttngnan gaaantttcn 360
ggaatntttn aaanaaaaaa angnttgnnn ncgttccccc naaaaaattn ccccccgnn 420
ttttaactna ccnctggtgg attgggcccn aaangcccaa aaatttnccc ctcctttggg 480
ttggggnngg atttaaaaag gattccntga nccccccgna ggcccngnaa attggganaa 540
aaggctttan aggaacaccc ccggggttaa ccttnccctg gtggggnctt ttggccaaan 600
cnancntttc cttnggcttt caaaattttg taaangaaag gggganaaaaa attttctngc 660
ccaaanaaaa agggttccaa aaaaaccttg gggntgacct ttttaanggg nccacccccn 720
ttttnttaaa aaaaaaagcc cnnaaanggg ggaaaggaaa tttttttnaa ccaaggggggg 780
cccaaaangg ggattgggna tttaggnccc cccggaaaat tggcccentt ngggaattcc 840
ncccaaaaaa atttggnnna aagttggant tccccccang gggaaaacct tcanggaccc 900
caaaggtggt tagaatccat tnatgggggga cccggaaaac ncnnggagaa gtctttcggg 960
ngggaagaaa attnanaaaa ccgccaaant gcccntttta aaagcaaact tggaattggg 1020
aaaa 1024

<210> 4490
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

<400> 4490
gnnnnnntnn nnntttcaaa tgcttngcan tcgcttggnn gcaggatccc ttnggaagcc 60
nttggacgac acgtggcgtn ccgctgaatt naagcatatt agtcagcgga ggaaaagaaa 120
ctaaccctct agttttaatt ggacacttct ttgctgnngc aatctatgcc gngtatnnnn 180
gctntaagtc agaaccttgg attacaaaac ctcgagcncc cccagnagtg gtgctgtatt 240
gtcaaagcgt gntctgtaat atttcctcta atttactcag aaatgaagta tatgggtcat 300
taagcttaaa ggggaaccat ttgtgaatga atatttggaa cttaccaagt cctaagagac 360
ttttggaaga ggatatatat agcatagtac cataccactt ataaagngga aactcttgga 420
ccaagatttg gattaanttg gttttgaagn tttttggata taaatatgta aatacatgct 480
ttaatttgca atttaaaatg aaggggntaa ataagttaga canttaaaag aaatgattgg 540
taccataaat tagtgctaan gctgaggaga actacaggnn ttcctttgga ttaaggattt 600
gagangagtt ggtggggcat gcaaattaaa atggaagaan ggaaaaaana aanaaaaaaa 660
aaacctcgga gncctctnga aacccattag cgggggcngn nttaccnnng aancccngna 720
catnggtnaa ggaannccan tggnanggaa nttnnggggc aaaaaccncc caaccntgga 780
aangccanng gggaaaaaaa aaaggccttn aanttnnggg gnaaannncg ggcc 834

<210> 4491
<211> 940
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(940)
<223> n = A,T,C or G

<400> 4491
gtaggcccgg nttaagtttt acnnttnaaa ttttcagcca cngantggtt ccntnncgnc 60
cgggnttctt ggagggtttt ttntggattt tctnttttcc tnncnaccat tttcattncc 120
ttcatnattt cngngcccnt tacntttaaa ggttntaccg tccggtatng cntaatggaa 180
ggggtaaaat cnggnnaatt catggnttgg ccattctggc nctgngtncc ccntncnnan 240
aggncttnac cnaaccttga tggggncntc tacttccccc ctaagctttn ttgtgccacc 300
tngttgnttc ttaggtacaa aactattcca aatggtacct gncctggatc cntnggccaa 360
tggggaccnc atgggtaaga ttctgggtnt ttttaaccat naaaaaagng ccattaaana 420
tcccggntna agattncaaa atgntattgg gggcttccat gaatgggact tgnggactgg 480
aaattctctg gggantcaat gnaataatgg tnaatgaatg tgaagacctn anaccntgca 540
ntacttggan acttcttana cacttgtgcc aatttnggat attacctana atttatttta 600
aaaatgggtt tttcntttcc ttttaagtaa attaaaattt aacccctta ggcctttacc 660
tggnnaaacc ttnttttttt ttacccttcc anttaaaacc ctttaaaaaa antttttaa 720
aaantttttnt ttggggaccn tnttttttg gttaaaaaan aaaattttta gccnttttn 780
ancccccccc ctnntngaaa aaaannnttn ggnaaacttc ccnggggngnc ctttttaaaa 840
aacctttag ngggggggnc cgaattttac ccgtgggaaa ccccncnncc cttttatnaa 900
agaaancccn tttggatgga agnttttggg nncaaaaccc 940

<210> 4492
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(840)
<223> n = A,T,C or G

<400> 4492
taatanctng gctatngttc tctttgcagg atccctcgat tcgacaccca atggcgggtn 60
acgccggtgc anaggggggg cccgggggcc ctggtggccc tgggatgggg aaccgcngtg 120
gcttccgcgg aggtttcggc agtggcatcc ggggccgggg tcgcggccgt ggacggggcc 180
cggggcccna gccccngact tncngaggca aagccnagga taangagtgg atgcccctca 240
ccaanttgng cccttggtca aggacatgaa gatcaagttc ctggaggaga tctatctctt 300
cttcctgcct attaggaatc agagancatt tgantttttc tngggggcct ttttcaaaga 360
ttaaggtttt naaaaaattt nccaatncnn aaacanaccc ttccggcaac gcaccangtt 420
naaggcattt gttgctatnc gggactaaca atggccacct cnggtctggg tgtaaatgct 480
ccaaggaagt ggnccaccgg catncgtggg ggcattattc tggccaaanc tcttccattc 540
ntccccctgc cncaaaaggc ttacttgggg ggaacaanat tnggcaancc ccaaaanttg 600
tnccttttgca aaggtgaaca aggnccattt tcgggntntt gtggcttggg ttacccccctt 660
aatnncttng gaaccccaan gggcaacttg ggcattntan ttttcccgta acctngtggc 720
ccttaaaaaa aaacttnttt cattnantgg cttggggatt ccaatgnant ggcttacaaa 780
ctttaaacnc ccgggggctt tcaannttgn tcaaaccctt tngggnaaaa ttttgnccnt 840

<210> 4493
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4493
cnttttttgaa ancccttggc tacttgctct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagccaa cgtgttaggc ctncnnngca cgnnnctnaa gctgnttctg aatgagaccn 120
agncncntga anttncacaa gacatccccg ngaagacttt gaatatgaan actgngtgtg 180
tcnatgngtt acnaacaaca ntatacttct nncntgtnct natcaatgnn natngggnaa 240
cccttcccta attacacctn tnccctacac atacntnccc atnnacacac acntgaacac 300
actgangatg tnccctttaa gtgtgngtnn aatntgctgc nngnattgaa attnaaatgg 360
gattgatnan tcaagtgact tgagacctga cagcatcttt acactnaanc ttagacannt 420
atgcnctcat gtgggcagca ngttacaatg gtacttnagc ccacagtnta ttgctatact 480
tgagttctta actcanaaca tatattntga tttgaatggc atantgtata tatnatttca 540
tgcnctttta aaattatctn anaccncttt natganatgg gcagnatgat aantgtctaa 600
cacctgggat ttaactggat aattttgctn gaatctttta ngttttganc tnttcaggac 660
nagttaacag acctcanant gttccaaagg cttaaattgn naactcnaag ccctttttna 720
aaattnatgg agtccaannt tacctgggan ccaggacant 760

<210> 4494
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4494
tnanngtana agacnncgng naaagcccat cagccggaan gcaaaggncg cgggtggccc 60

caagagnggg aggagtgggc tgacagaagg cccnnntccc anccgcgcac nggcngaccc 120
ccaggggcta ggatacngga gatgaggaac ngganaaggg gcncaaagag cacanntgac 180
tggnagagga cacagagctg ncctncaagc anangaacga agnncncata ccccnggaac 240
ctnccccnct ccaggctcac accncnagct ccancaanga nacctnangc gacaacannn 300
aagnnccctn ccccaaccta gnccnncagc ccnaaangaa ngaacacaga tgaanagccc 360
tgaagacanc nggngnccac aggnggngcc cgangcnccg ggtgaaagtn gaaganngac 420
cagtaagagg gaagaaagaa tggctcctcc ctcanttcag agaanacatc ctagtcacaa 480
gngcccctaa ngcacncaag gtctnngana gctacattcc ctcactganc ccagnagaaa 540
nacactacca actgangcac canctaggat taacaacnag ccaagcctcc ccttnccttt 600
cncaaggaaa cntcncccca caagggccnc cccaatccag aaaatgccta taaanccctg 660
gccaacttcc ggggaaaggg gaccnccnng aagaaacaaa ttnaaaaana aaaacnaccg 720
ntaataagna accggggnga aaaaaggncn aacccnccaa agggcccccg ggcaaaaaaa 780
atccccaagg ccg 793

<210> 4495
<211> 1487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1487)
<223> n = A,T,C or G

<400> 4495
agggggaggg gnnttttttan cncncccccc ttagggngga aaaaaaancc cccnttttttg 60
gggagaaaaa aaggnccccc naanntangg gggaganatg nnngaagagg gnnannnggn 120
aaagcanacc naaagngggg anannnncng nnaaaaaaan gcgnggncaa gacagnaagg 180
ggggncgaga gagnnngcng gggaganana aggggaggnt ntntgagnna anggccgaat 240
ngacgaaggt ncggatgggg gncaannang ggnganaggg gaaaggngna anggnntacn 300
ngngantggn aaangnnnat nnggggggana aaggngantg agncgggcaa aannantann 360
ncggatangg gnataggtng antgangtgg angntancnn agataggcgn agannngaaa 420
ntgagnatnn tgnnacacna tggggnataa ggcnnnnnann gaangganca ggangangaa 480
ngggcatant agggcgaang aagaannnnn gntaggatgg nngnaaaana aaantgntnn 540
ngaaagagaa nntgangnaa gtgncggaga aggacgaaga ataancnatg cggaagnann 600
aaggngnang tnnaaaaggn cangaannca gaacatngan gncgaaaaag cacaggnnnn 660
anggaagngg gtgcnaaggn gnaanaagag ctatnagggg gaaaggaagn ggntgnggga 720
annngaagan aaggggaggn aagcaaggaa acgatgnnan aagaanaggn taaacgcaag 780
naggtatnaa naaaganaca ancgangtga naggggaagg gngggncaca atgaangang 840
ngaatggnta ggacgcanna agacntagan ganagncaaa gacgtagngn caaagganga 900
nannnacgcn agngnggaga cgtaagggnn angngtnagn cnaanagata nggannnnga 960
aaanagggng aggagangta gaaagncgaa cagnnnnang ngagngtggg ngtaganaga 1020
ntnnggaaaa aaggggacgc gtanganaac gnangacgca angaggaacg aagcnaaana 1080
gagnnaggag nananaagcg aggaganaan gatnagggag agntgagana naacgaatgg 1140
ncganaagag agagnaggtn ngcanngagn agaagancga nggagganna gantgacgng 1200
nagnngagag aantacacnt atnaggnnng agaagataaa ngcngagaag atnganngng 1260
angaganacg anagnnatgn aganagnnaa nntagnagag agagagngng ngagagaaaa 1320
angtgagagg agaggnaaga ngaancgnga gnggacagga ngagagnnnt atgnnnggnn 1380
anggganagt gnntntcntg ngcnacannc nnatnnggac nacgagatgt gcanaganan 1440
gnngngnaga ngnngnntag atagaganna nagggnataa gagacng 1487

<210> 4496
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4496
tnnaggttng nnntgtnggg cctnttnncn tngttgtaan cgctggctng ctcgcancan 60
nctngctgnn gcgaattcgg cacgaggtgc attgnggcca atggtggcnt ntgtagttcc 120
tgaacatcag ctgggaactg catatggctt catgcagtcc attcagaatc ttgggtnggc 180
catcattncc atcattgntg gtatgatact ggattctcng gggtatttgt ttttggaagt 240
gtncttaatt gcctgtgntt ctttgtcact tttatctgtg gtcttactct attnggtgaa 300
tcgtgcccag ggtgggaacc taaattatnc tgcaagacat agggaagaaa taaaattttc 360
ccatactgaa tganangtnc aaatgaatgt gncatgagaa tgggcttaac acatcgttgg 420
tttgaaaact tncattttta aaaatttaga gtttagtcat tagaaaaaat aatggactgg 480
aaagtnatat gtatatccaa atatacctat ttcaaagtgt atttgtgagg cctgttntag 540
cctgtgtctt gtgtattgng tgtcgctaaa ganttntact tttacnnngc tcatcaacaa 600
tgaaagggtt tgaaaattgc tgtggaacat ccacgtganc tttttngaaa gacagtnaaa 660
aaatggnaaa cgtttggagc tttctnttga gataatctac atttaggnaa tataatctta 720
agggatacag ccctttncct ttattcttat nncangaaaa aaaaanct 768

<210> 4497
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 4497
gngnctttan atancttgct cttgttcttt ntgcaggatc cctcgattcg agcggccatg 60
gccaacttgg aggtgaagaa agcattcatg ggaccactga agaaagaccg aattgcaaag 120
gaagaaggag cttaatgcca ggaacagatt ttgcagttgg tggggtctca ataaaagtta 180
ttttccactg aaaaaaaaaa aaaaaaaact cgagcctcta gaactatagt gagtcgtatt 240
acgtagatcc agacatgata agatacattg atgagtttgg acaaaccaca actagaatgc 300
agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta 360
taagctgcaa taaacaagtt aacaacaaca attgcattca ttttatgttt caggttcang 420
gggaggtgtg ggaggttttt taattcgcgg ccgcggcgcc aatgcattgg gcccggtacc 480
cagcttttgt tccctttagt gagggttaat tgcgcgcttg gcgtaatcat ggtcatagct 540
gtttcctgtg tgaaattgtt atccgctcac aattcccaca acatacgagc cgggagcata 600
aagtgtaaag cctggggtgc ctaatgagtg agctaactca cattaattgc gttgcgctca 660
ctgcccgctt tccantcggg aaacctgtcg tgccactgca ttaatgaatc ggccaacn 718

<210> 4498
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4498
gnagnccggt tcnnangcnt nggctnnatc caatgctggc taaagttcna ananctggca 60

acnccaggan ncangcgttg cgaattcggc acgaggagga attacaggta gcaaattatg 120
gagttggagg acagtatgaa ccccattttg actttgcacg gaaagatgag ccagatgctt 180
tcaaagagct ggggacagga aatagaattg ctacatggct gtttnatatg agtgatgtgt 240
ctgcaggagg agccactgtt tttcctgaag ttggagctag tgtttggccc aaaaaaggaa 300
ctgctgtttt ctggtataat ctgttgccag tgggagaagg agattatagt acacggcatg 360
cagcctgtcc agtgctagtt gcaacaaatg ggtatccaat aaatggctcc atgaacgtgg 420
acaagaattc gaagaccttg tacgttgtca gaattggaat gacaaacagg cttccctttt 480
tctcctatng gtgnactctt atgtgctgat atnccatttc ctagtcttaa ctttcaggag 540
tttacaatng ctaacactnc atgatngatt cantcatgaa cctcatccat gttcatctgn 600
ggcaattgct taccttgggg gntcttttaa aaagtaccac gaaatcatca tattgcatta 660
aaacccttaa aagttctggt gggnatcaca gaagacaagg ccnaanttna aagnggagga 720
attttattat ttaaaagaac cttttgggtn ggatnaaaan 760

<210> 4499
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 4499
ttaagntttt tttggttggn ntttcnaatn ttgccanaaa gctgnctact ngtnctttcc 60
gcannatncn ntcgattcga attcnccacg agctgatagg tgccnccntt aagacttttc 120
atagancnta ngncggancc nncaccttct cnnntgaang atactnaccc agggnaatgg 180
tgnatgctgt gaacanantg gngaaccnct cantntgnta anattactna ctaanctcaa 240
aagttaagct nnancncaca cnnntatcct acctcntncn ctgagnntca ngttncacac 300
aaaaggnctn aangccntng atcnacctna ttatggacnt gntcatcnna ancctaatat 360
nctnctcngt acngtnnata tttncnacnn agcattcnct atcttncatc cnntnnccaa 420
nctggncnct ancttactac ttgcacctcn ctgtacccaa cntttccatc cattgnntnn 480
cctatcaaac tccttcantt atgnccttna nctcncgtaa anacnnatgc nnatcttgag 540
tncanacttt tnttgcgccg cngtngctcn ntttctttta ccnttggaac ccgnataanc 600
atgnntttta gaanaatnan caccnggnac cttntnancn ctanatatgc nctnnntant 660
gctntgactn ntaaactann ctcnaanngn ncttanancc ttatnaantn nncccttnat 720
natagtntca ttaanggtan tccntttncg gatccattta ncccctttncc atttttgnnc 780
ctacntcatt taacnttnn 799

<210> 4500
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 4500
ggtgnnttcc ccctttgaaa ccctttanac aagctacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag ctnttntccc cctatnaaat ttgcaacaat anagggtgga 120
gggtaatctn tnctntccta tactgccaaa gaatgtgagg aagaaatggg actctttggt 180
tatttattga tgcgactgta aattggnnca ntatttctgg agggcaattc ggtaaaatgc 240
atcaaaagac ttaaaaatac ggacgnactt tgtgctgnga actntacatc tagcanattt 300
ctctttaaaa ccatatcaga gatgcataca aagaattata tatnaagaan ggtgtntaat 360

aatgatagct atantaatna ataattgana caatctgaat cccttgcaat nggaggnnaa 420
ttatgtctta gntataatna ganngtgaat canccaactg aaaatnctnt ttgcatatnt 480
caatgtncta aaaagacacn gttgctctat atatgaagtg aanaaangat atggnagcat 540
tntatagtac tagntntgct ntaaantgct nngtaaatat acaaaannnc tagaaagaaa 600
tatatatanc ctngtnattg tattttgggg gagggatcct gggataantn nntatgntcn 660
tngaatcnct tctggngtct tcacattttt ctaccannga atttaatcna atagtaaagt 720
tgttggnaaa aantcaaagn tnggatttag aaagatncnn ttcttgaaaa nacctgcttt 780
tggtaaatga aanc 794

<210> 4501
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4501
tggtttttta ggtttggntt tcnaatnngn ctaangctgg gctcttgttc ttttngcagg 60
ancctcgat tcgaattcgg cacgagatga gaaccagaac aagtctggca gcgaggccgg 120
cagtccccgg aggccacnaa gacagcggtc agatcaggac tcagacagtg accagccatc 180
cagaaagaga aggccctncg gttctgagca gtctgacaat gaatctgtgc agtcagggag 240
aagccactca ggagtttctg agaacgactc tcgcccanct tctccaagtg ccgaatcaga 300
tcacgaatcg gagagaggat ctgataatga gggttctggc caaggctctg gaaatgaatn 360
ggaaccagag ggatccaaca atgaggcctc anatagaggc tcanaacatg ggtcagatga 420
tagtgactag gttttatttc atcaataagc ttcatctctg gaggaaactt ttttaatata 480
tgaaagctgt gatcaaaatg tttcacatgt ttagtcaatt gtgaaatttt tcttaangca 540
attntctttt ctatcanttt gtatattact aancccaag agacattttc tgtgctagna 600
gtccaatatt ttgagtctct cntgcanatg agacttattc ttttgnngta caatttcccc 660
tatcatatgt gaaaaactgc tntntcaaat ttancccttа tgctanantn attcctacna 720
nannttctnc ctgntanctg tngctacaan nttntattnt ntttttnnt 769

<210> 4502
<211> 1338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1338)
<223> n = A,T,C or G

<400> 4502
agggnngntc tttccacccc ctttgtttgg aaaacccccn ttttgaanta ccaagcctna 60
ctttggtgtn ctttttttgg ncanggnaat cncccaattc cgncatctnc ggnaganagn 120
tcccnacaca ctagccagna cacanatctc atcaccaata acnngttttt tatcantatc 180
nncncanncn ntcnncncga ntntncgnng tangntgtcg acaanttntn tncncntnta 240
aannnnncnn tntactatna tcnatngtca tcntcancna ntnttcntnn ctancgnann 300
nnntncnctt nnctantctn actnngnnnc annntnnnnan atnnnnnctn ctannaacan 360
cacnnngnta tntnacnnnt ntnacnnttg ncnctnannt nnnantncta tncanttncn 420
ncattaacat nnncccnata ncaannntna ccnatcanat acnttttnnn ganacnnann 480
nancnntctn cttnccnnnt ncctaacnnt annnantctn cngnnntttn aanncttnnn 540
tnactnncac tactnataca ttnntntann ggntccanna aactnnagtn nnnccntana 600
ctgatnnnna tnnnntnctt cnnctattnc nnnngtantt nanacnnacn atcatnnctt 660

ttcatnncnc nanttncgnn aatcatntgt antntaanan naantcctan nntcgncnct 720
cttcncttnc tcgnnnntnt atncactnnn atnanntnac taccactnct ntatntcata 780
ccagantata natnttnaaa tcnnntnntc ncnnancnnt ctctcncnan gcnntacgac 840
nnnnantcan tttngtncan tgaactaant aaaantgtct nttctatatc nncagncnat 900
nntntnataa atactctctc atnnatnntn atnacacata tntntncnca ttctcctatn 960
atctgnatat nntcgtcncn ntctcngana cnnncactct atgatatnnt ntacncacta 1020
tatntacnan ngtatgntan gnnacatana angcttaaac tnnanangna tacgacttca 1080
ntatcncata taacncctcg ntatgcanan aatcgnactg ttaatgactn gtatntcgat 1140
acncctctan angcntnngt atacntntng gtcnncanan cttcatntac nctngtantt 1200
atgntatata tangcacnga nnncnngnag anatcnanta cacccttata nnttacnana 1260
nntatatntc taatnngncc tctntnactc tcnacgntan gnnnnactgn tatnttcaca 1320
cntaantatt ataatncg 1338

<210> 4503
<211> 884
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(884)
<223> n = A,T,C or G

<400> 4503
cncnntctna tgngggnang tnggtctntc ctacctcttt nagganaccc tctcgcctaa 60
nancnnggct ggggcgaatt cggcacnagg gaatggatat tnggggngga gantanntnt 120
nnattncctt taggatcngg cactgtggag gaactttgga aattgtnacn tgctcacatg 180
ttgnacatgt gtntcggnan gcnncacctt ncacctatcc aggangcnca nggcngatta 240
tcaataacaa taacagacga cttgcccaag tctggatgga tgaattcang aatnatcntc 300
tatatnattg ctccatgngn tacaaaggtc ncattatnna tatatatcnn cnnnanatgg 360
acttanacac naacntcaat gcnaaccttt tanntgcanc ctncanactn tanntnctga 420
ncntntantn ccacnncnnt ntanctcana gggaganana caaatnnttn tagcnnttcn 480
aannctacat atcccagnnt cnaaaagagn ntgnctannc tggaattntt taatggccan 540
nggtctgggg ngtaaatcan ngatcantcn ttataactgc ctacnctnna cnttcncaac 600
attatgaacc ntttgctnnn cgaantgnnt tcccaanncn ttaaatcgng nccctntcac 660
cnaatggcnt caaanatgcc caancnancn cttnaaaaac gnnctncccc anacttttg 720
gngcanttnt tgacccccca ctnggaantn atttancatc ccccnagtct acccccntttn 780
ttggaaaccc nngcnaaatn caatntggnc cccttnnnna acttnnacac cccccccncn 840
aaancaantg natttnnncc cccnngctct tnccnccnac nnnt 884

<210> 4504
<211> 1050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1050)
<223> n = A,T,C or G

<400> 4504
tgggtggctn gggggnnnnn nnggnngttt ttcttnnntt ngtntgggng gnccttttac 60
tcgcccctaa natcaganat tggggtnngg gggggggntg gctcgntacc tntgnnttct 120
ctnagaatna gtgtnnttgc tnnntngtct ggggnatttc nccnnttttt ttctnggggg 180
gntntnnnnc ntnggggggg ntntcntgng ggcncnntgn ttgctancct nnnntngtnt 240
cnatgntntn cnttgntntc nnactttntn ttgtnattnc ttatncactc tctncnttnc 300

natatctcat gttgttgnct ttcattttnc ncnaagttcc cnntgntcna tntttnttat 360
ncnccnnntt tntgctntcc ttttntnnta nagtgncact ntctngttnt tncncntntt 420
tacnnanntt ncttnntant tttnccnttt tntttccnnn ngctgtnnan tngggtncnt 480
cngcnttctt ctcccgntct ttctcaatcg ttcctnnctt nttctncntt gngnccctgt 540
tnnatttttnt tnntntnccg anctcnttac ntccntcctn gtaattntcc ctnctaatcg 600
tntgcgcnnt ntcccttnat tnntctttng ngatncnttg gnatctcnnt tccctangtc 660
tatntgctnt ttgttccnta nangcncnta ttntgtgncc tctcncgntt gnggttctct 720
gtttgtnnng cnncctgtcc tcttaaatnt tgtcctntgn ttncanngnn cntttntang 780
gtctntngnc ccttnttnac cnactttgtn atntatccgt cnntcggtna gttcnncnna 840
tgtcgttttt ntngcnctan tgtncctgct tctcntnntg nnnctcnnnt cntcggtntc 900
nctatgnngc tatgttnnnt tntccntntc tttccattnc ngcgnnaccc ccttttntct 960
actnttnatc ttctnatnac ctnttntnnn ttcntnttag nnttntnncn atcntctngn 1020
tgttttnctc tcnnnccctt ctnntgngnc 1050

<210> 4505
<211> 1421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1421)
<223> n = A,T,C or G

<400> 4505
nttgnattgg gcggtngagg gntgaagggc ccctttttct tttttcctta aaatggcttn 60
gtggagcanc tctnnnntnn cctctganac atcagaanat atggggnctn cggngcnncn 120
nnntaccacc ncantncnat gctagctncc nncgnccnca antctncnng acccnncgnn 180
cgcctctttt gttntcngan tnnnaacctg tnnancccan ntnactctan nncntnnngn 240
ctntgngcag ctggannnnn ncnacnnnna ancnngcact agnactncca ntnantgnat 300
ntctnagacn cnnncnctna ttcnnttgnt ctcaagtcna tncntcncnc cccncnncca 360
accacccncn ancacctgnn gcccccacnn catncccnca ncactancan ntcctaaccc 420
tcancntnnc ncacncgacn nnctncacat ncntntcngc ctcctnccnc acatnntcct 480
acntttncat nccntcccaa naacttntnc tnntcccnac aaacacngcn nnnnnncgct 540
ctcnntacnc acnncctnnn cnntantcnn tcganttccc cataatnctn tnnancnngn 600
ttccncnctn nattccctct ccctagnact nctctcctcc ntcnttatca atcnnnccca 660
nccccatcat cccctcnnnn cccctcactt ccttcntcac tcngacactc tctntntatc 720
nncacnacnt anagctcata tnnccactcn cantatnnat cccttcctcn ctactcnnta 780
tatctcnaca cttcnntctc ncacntacct nngcgntcnc ttnctcncac nannntncat 840
ttctncactn cantntccta ttcntcttnn nnncnanatc tcacnnnctc ttctcgcncc 900
tgtcnacann ttcncntncn cactncctcg nnnatnnnnc tncnntntct cnntntnact 960
catntntcat atacnctatc tantatctnt ncnnctcnnt ntntctttcc ncactccntg 1020
cnacccctca tcnactcncn cntanctcac anntcnctca cnctcancnn ccncacctat 1080
atcactncca tntctctnct cacgtttaca ctactcacac tcnacntnnc atcactcntn 1140
nttcnncncn tangtcncnn ntactntatc cactctntct cacatctcnn ctacncanac 1200
ntccncacna tcactcntct acncnctnta nctnattacc nntcactctc ccctcannac 1260
cctcntccgc tctnctcata tctccnnngn ctcatnttct acatntttca ctntatangc 1320
tcctctcact nnnnnccnca ctatacgtat atcgaanaca acgtatntna aacccnactn 1380
ntatctanac tctctccnnc tntcccacat tntaccttcc t 1421

<210> 4506
<211> 952
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(952)
<223> n = A,T,C or G

<400> 4506
nctttttttct atagngcnnt tnttggggtc tttctttcca nanancgtgt nnctcctcct 60
cncctaaana gnnaggctgt ggagnncaga ccnccnatat gacacnntan atncttaata 120
annnntgatt ntntgccaga ngcnctctgc antgnnacng tnnggggngg gtgaacacac 180
nctcntgcac ggntatcnag ancagncttn actnatnctg gactacaatn atgtgagata 240
acacanacat tanntnnaan nnananactn tattcnttnt tnactaganc gntcctncga 300
tnggaatncc ctcctcctna ngaaactagc atggatgttc acattcaagt gtggggatnn 360
ttatcaattt gctatttnat aaaanatacc aanntntncc ctntncaana taattnncnt 420
cngatatatg gtccatccat ttantgaaan gctnttcncc ctttcaaaan gatacnnatn 480
angncanncc cngtngcctt acttggctna ttaaacnnna natcantctt gnncagatng 540
gngtnttcca ccannntttt ncccnaagcc ttannntacc taacctcnct gntcctccaa 600
gctnctaccc tttccaaccc tcacgcnctn tcncaaaacg tccctttnnc tactctcnnt 660
ntttcgaann tcccnaattn taccccattn cccnttcccc nctagcccnt naattntanc 720
cntttncctt tatcntcnnc tncacttttc gtnctccnct nccctcatac cacttttttct 780
nnnatcncca ccccgncnnt cactactcat cagccccctc aactnctnnc ncatnanatt 840
ttnaccncnt cantcccttt ctntnnccnc tctntntttt ctcgnacanc ctccactcnc 900
ntctatcngn cnttttccnn nncntntctc cgannccnntt nctcctccca ct 952

<210> 4507
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4507
nagttttttt tggtgggntt ttncaattcc ctccttccag ccaggatctc ntnctntcct 60
naanaaaagg ntgtggcgaa ttcggcacga ggtgagcccc acaggaataa aaaacactgg 120
gaaggggtaa ccccctcacc cccgggagtg gcccaggggg agagaggcta cctganggga 180
angaagcaca aaanggaccc gctgcagact cagggcaaan ggaatgccat cngngctggg 240
acctgtgagc actacangag gaaacgcaag cntggtggna ctggttccag ncacacaggc 300
aaagggcaaa agggttggac actaanccnc aaagntactt gggttcctcc ttcttctnnt 360
ttgccttttn ctgctnctnn tncatganct ccaagtccct ntgnttgcgg gcggcagcan 420
aaagcccgtc atttcggcgc tttcccttaa ccnantcgnt ctgcttttte atattcttnt 480
ggcggtcaan ctcacgctgg ttaccgcggt tnatggctac ngcagcggnt ccaacctgct 540
ccgttacgtn ccctttgttc tgtcnnacnt tncangtccc nccccttntn ncaacgtacc 600
cacagtcctt ccttttctcc ccgccccttc gcgccccgnn agcccngntc cccatttgna 660
caataaaaaa gcacctntga ttccacgnct tcnngccttg aatcccctng tctnttaaan 720
ngncnnnaag ntcccncaat cctnnaaccn ccnncatctg ntgaancccn ngnccttttcc 780
cntnngnnt 789

<210> 4508
<211> 1454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1454)

<223> n = A,T,C or G

<400> 4508

aggggggnng ggggnnnttt ttnggggncc ncccccccct ttgtnntggg gnaaaaaaaa 60
cccccccttt tttnggggggg ggaaaaaaaa nggggccnnc cgggttngng gggaaagggg 120
gntggcngnn ggngggggnt cgnggggnng ngngnngngg tgttgnggng gggggggggnn 180
gtgtngnggt nggtggnnna ggnnnngggag gtgnnggggn ngggaccncg gnggggnggng 240
agngggnggn nntgtngngt ggtttttttt tncgngngnn gggggnnnna ggggaggggg 300
acgggggggng tgnggtnggc gngntnngtg gnggggggggg gnngtntggn tggggcntgg 360
gtcgtgnggg ngcgngtggg ngncggcggn gantggngtt ggcngtngng ggggtgcncg 420
ncgcnngngg nagnggggcg tgggcnnngg cngncgngca cgnggggggc gtggggcngg 480
gggncggnng tggtgnnggg ggcgagnggg tgggggggggg gngnagnggg agnaggnggg 540
ggnnggttga gggagagggg tggggnggng gnnnttntgn gggggatgtt ngggggggcga 600
nngcgnnggg ngggggtggn tgtgggnnnn gggagngnga gtggnggntg ggnggtnngg 660
gtgnggnggg gggtggtgtg gtgagcnggc gagnggtgng tgtgngnggg gnggnnnggg 720
gtgngggctg cgtgacgntn ngngagaggg tggngaggng ggngngagtg gtnangtgtg 780
gngacgtggt gtgtgggtgt nngtntggnt tcncgagnng ngggnngtga gncgngcntg 840
gngnntgtgt ngtggagcgt cngngcgtgg nggngngngg cngncggngg tgggannatg 900
ggngacgngg tggtnngngg gtgtgngcgc gnnggtgncg gggacgtggn nganggggtga 960
gcgncggggg gaagggtggt gagttgtgan ngngnggana tgngannnng tgtggtgtng 1020
tngngaatgg gcgancgnat ggngtgcggc gcngtgnggg gcgtgtgngg nnnntagggt 1080
gnccgaggat ggggnngngn nggtgcgggg gtgtgggtgt ggtggnagng cngacngcng 1140
gtgnttngng ngngngggct ggtcncgtgt ggggggacgc ggaggtgnng atgcnntgtn 1200
tgcgtggcgg ggnnngngcg gngcgaggng gcgnanagtg gggggtggnt ggttgtgngg 1260
gnggtgnggg ggggnggngg gnntgtgcgg gggngcgggg ngcggcgtng gtggtcgggg 1320
ggggggggatg gggncgngtg gcggggngnn nnggagtgnc gacgnnggggg gcgggnggan 1380
gggggtnggg gtgtgngtgg gtgtgggcgc gngcngnggg ngnggagcgn ngggngtcng 1440
ggnggangggg tccg 1454

<210> 4509
<211> 895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(895)
<223> n = A,T,C or G

<400> 4509

tttctaatta tcanggngnt cgnnactnnc nctananana taggccttgg ngaattcggc 60
acgagaactt cntnaantgg tgtnntncac cnttngcaaa caggntntna agatgtgcnc 120
tttgggnntg ctntttggnn acatacatgn ncnttacngn tatctntang nnaactcnan 180
aactntctng aatttgncna cnntgcnatn tattgtgtga agcgctgcac tanctcacgt 240
ttaccantaa nggtnccatt nccccatttc attatntncc acttataagg ctcaaaagaa 300
nttgtcccca ttccggccca anacacnctn tttagnntga atggntgaat tggcaaanca 360
tgaannтcaa accnattanc cgnaactggg cancnatccn caanggcctt cntacctgga 420
ncttgttnaa ggtgggaanc cnttccttag gttccaaaan ttgtancatt ttacccttgg 480
cnnggtcatt aatttnattc ataacnaagn ggtcnatttt nttncttnat gaccccatcn 540
gtgaaaaaat tncctaatcc antaacccca ancentgctc nttaattcca agtccntcng 600
ccntnanang aattcncctt nncnanaann ctnngatctn ntnnnttnca agcangnanc 660
nnggccnngc nttngggnga anaaatnccc ttgnttnaan cacanttcna ncccaaggtn 720
tncaaaaann ntcctgnaaa tcttntttgg cnnnannggt cttttacccn tancccnttc 780
ccaattggga atcacttgca antnganccn ngtgccntta gantttggnn nnaaatnggn 840
ctaaacctcn ttggnnntnt tctctnntcc gcnnnggaca atccttnncn anacc 895

<210> 4510
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4510
tggtnnnnnn naggttgggn ttttcaattt tntctanacn ccngnctctc gttctttccg 60
caacaancnn gcggntcgaa ttcggcacga ggnnncccgc nngatcagnt nttctnnnac 120
tcantaanna cttctgggtn acnggatcaa attgaatctg cntaggctgc tgtatntgga 180
ggannccngt tcgcngnant aaaanctgnn catnnngang nctgancnnt tnccnnaaag 240
gntangtcca ntgnnnctga tcancnncaa ntacncagnc aganatccaa anaccagtna 300
tatatgtncc nttgctcagg ggtgtggncc ccaatttcna tngagntcna cngcnnnnct 360
cnngaactnc ntcncnactt cttncanntn gtcnngnaan ncnttnntnc atctnagctg 420
gcacatgaga gtacccntct gctatgccag aagtatgaca ccaccaggtn atagttccta 480
cgaccnttac cactgtgact gattgagtgg tgtgagaatg agngactncc atnngattnc 540
ncatttncca tccatctagg ngccactctn tnngcatnga ttnctccctg gcnaccnaac 600
tctnngantn ggatgacttn tcntnagant ngattcttaa natcnngaan ttgatgatnc 660
tacttatacn gnnattttgn ccctncngna aangcattga agtnggttan ntaaaatagn 720
naacnacccc anttgccaat ttnccaaaac cnccaaagcc tnaccccgng angggnnnn 779

<210> 4511
<211> 10
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = A,T,C or G

<400> 4511
nnnnnnnnnn 10

<210> 4512
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4512
ngtntatagc ttnctaatgc ttcntancga attcggancg agagaagccn tgagcagcaa 60
agtctntcgc gacaccctgt acgaggcggt gcgggaagtc ctgcacggga nccagcgcaa 120
gcgccgcaag ttcctggaaa cggtggagtt gcagatcagc ttgaagaact ntgatcccca 180
naaggacaag cgcttttcgg gcaccgtcag gcttaagtcc actccccgcc ctaagttctc 240
tgtgtgtgtc ctgggggacc agcagcactg tgacgaggct aaggccgtgg atatccccca 300
catggacatc gaggcgctga aaaaactcaa caggaataaa aactggtcaa gaagcttggc 360
caagaagtat gatgcgtttt tggcctcaga gtcttttgat caagcagatt ccacgaatcc 420

tcggcccagg tttaaataag gcaggaaagt tccctttcct gtnacacaca acgaaacatg 480
gtggccaaag tggatgangt gaagtncaca atcaagttnc aaatgaagaa ggtgttatgt 540
ctggctgtan cttgttggtc acgttgaaga tgacnngacg atgaancttg gggtataaca 600
ttcacctggc tgtcaacttc ttggnggtca attgcntcaa agaaaaaact tgggcagaaa 660
tgttccnggc cttatnttnt caagaaccnc catggggcna agccccaacg ccctttnttt 720
aaaggcncat ttggaattaa attcntnttt ncccg 755

<210> 4513
<211> 1166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1166)
<223> n = A,T,C or G

<400> 4513
ggagnttacc ccttnnngaa acccctttat acangctact tgttcttttt gcaggatccc 60
atcgattcga attcggcacg aggctacttg ggaggcnaga gttttngaga atggccngaa 120
cccangaggc cgctggatnc gggngaaggg ctgttgngga tantntanga tcttgntgaa 180
tcccactcca ngananctan nttnatnnga ccttntcnta nnnttantgn ttncatatnt 240
nactcaanat ngcaattgga tntattnatg cnncnanntc acttatcacc tngatcatnt 300
ggaaacnaat aannatctcn annangatcn gtcanttnta atantgngga tcaacnntnc 360
ctctcntnnn gggaatntna ncntggtact nacccnnttt nntaanacca tcttnnccat 420
tnacnnncna nngcnannan annanatnta attnaattnn ntntanccaa gatccatcna 480
cgttangaat tnttccccat ngnggaattn gcaanaacaa tntcnnganc taanaacaat 540
tcngccnntn nacaaatcnn ntnnanncan nanncgccan tntaatgntc aantncaaan 600
cngcccngca cgnanagatn natnannnct ctnantctct ntnanccanc ccatacnnat 660
tcgatancna tnannacntg gacntnctct nnatcgtnnn nacgtcatcn ctaatancct 720
ctcgtcatac gcnntatgac nngncctcta acgcacnaat angngcgata tgatcnanat 780
attaagtctn tantagtcgc ancnctanan nacnatggcg nnatcnantt naatgtatgc 840
gnccangtaa nctncgcgtn cncatagntn nanncnctnc tccnnannat gancnngtaa 900
natgtntacn gnactntctc acgnnattnt cntatanagc cgcgcanatn cnancaantn 960
nantanntcn tatnangatn attacntcgc ttntncnacc ncnaatacnc ngnatnnana 1020
acatcngcnt ntgnngtctg ngntgannaa ctcncannna catntcnatn acacnncgta 1080
nnnnanctac cagctnntac nntaatgatc tcannnnncn cacatnanat ntatcatntg 1140
acntnctacc attnacnnag ngaccg 1166

<210> 4514
<211> 1185
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1185)
<223> n = A,T,C or G

<400> 4514
ggnnnnnggg gggnnnnnnn nnngnggggn gnnngngngg nnnnggtttt nggggggggg 60
gctnttggtt gggaaaaaaa ccccccnttt tnggggggaaa aaaannntggg cccnnnnnnn 120
nnnnnggggg gnnnnnnnnn nngggggggng ggggnnnnnn nnnngnnnnn nnnccnntgg 180
ggggggggnn nnnannggggg gggnnnnnnn cccccnnnnn ngggggggggg gnnccnnnnn 240
naannggggg gnnccnnncn nttttttttt ttgggggnnn ccnannnggg ggggnntnnn 300
ncccnnnggg gganancntt tnnnnnnnng gggggggggn nnnnggggnn nnnnnnnnnn 360

nnnggggggg gnnnnngnnn nngntnnnnn nnnnnggggn nnnnnnnggg ngnnnnccnn 420
nttntgnnna nnncccnnnn nnnnnnnnnn gnntgnntng nnaaannnnn ntgggggnnn 480
ngggnaacnt tnngggggnn gggngnnnaa nnnnnnnnnt tnnntnnaaa aagggggggn 540
taggctnggg gggggnttaa aannnggggng ggnggggggg ggnnnnnntg ggncgggnna 600
annnnnccnn tttnggggggg nngggnggag ggggnnnggg gggnnntnan gggggggggn 660
ngnnnnnngn ngggggnnng gggggggnnn gnngnnngnn gggggnaaac gggggggggg 720
ggggggncgg gnnnnnggnn nngggggggg gggggngggn annggttggg accggngggg 780
gggggnggng nggggccggg nnnggacnnn ggntnnaggn gggggcnggg nnnggggncn 840
gtttgnnana aaaaaannna aangtggggg cntntgggac nntgggggggg ggggggnttn 900
cggggggggn cccggggcnn gggggnnngg gggnncnnnt ggggngggggg ggntnggggg 960
gnnananncgn nngnntnggg naaggggnng gggggggnaa aaaaaanggg gggnnngnnn 1020
nnnggggggg gggaaaannn ngggggggga ngggggnnnn nggggggggn nnannnnngg 1080
ggggnnnnnc ccnnnnnnnn nnggggngggg ggggnnngnn nnnnnncnng ggggnnnnnn 1140
nnnngnnnnn gnnnnnnnng gggggggggn nnnnnnnttt tnngn 1185

<210> 4515
<211> 1142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1142)
<223> n = A,T,C or G

<400> 4515
ccncanggggg cccnaacaan agggnccncc nncttcntgg gncaggggga aanccccttt 60
ttggccnaaa aaacngccct ttgggggggg aaaggnnggg ccgggnnccn nggggcccan 120
gggggggnccc canaaaaaaa acnnnnnnccc cccncntncc cccctnnnnc cccnccnnnn 180
aaannaaaaa agggggaacc cancnaaggg gggggccaan angggggggga aaantntaaa 240
agggggggcn cccccaaaac cngggggaaa aaaannnccc caaggggggga cccaaaaaaa 300
nnnnnccnaa acccccntgg ggaacccaat ancccccgggg naaaaccccg gggaaaannng 360
nnnnaaaann ccngggcccn aaaaaggggg ccccccccnaa annntnnccc acaaaaatna 420
aaaaggggcc acccnttncc cgggaggnaa nntccaaggg gggggacaag ggnnantttn 480
gccgggggga aaaagggant ccacccccccc ccnaggaaat caaggggnng cggggaaana 540
gganggcntn acccaaaacc cccgggggna cgggngccng ccaangaaaa agagaangna 600
ntntnnaaac ccgggggana aagngnaanc ncgncgnnan nggaagnggg ggngcccccc 660
ccaaancaaa angnccccnn agggggcccn naacnggnaa cncnnggggn nnaaaggggg 720
gccnaaaagg ccccgggggcc ccaaaanancc anacccnnag nnngnnaaac aaannnccaa 780
acccctgggc ntntgggggg nggcaaaacn aaccccccgg angggggaaa aaaaaatang 840
ggggnaaaaa ggaaaccaaa anctggggcc ngggcnggna aanggncgta acccccccggg 900
aaaaccccaa ncangncngg gggaaanaac aaggcnatgn ngcccaccgg cggccccang 960
ccccaancac ccnnntagnn tnctcccccn ngaanaaann acncgcatcc cgggaaccca 1020
aaanngggaa nagccnncgg gggccaaggg gnncancggn nangcnccnn ccncccgggg 1080
gncannnccn anacntnccg ggcnnnaacc ccccaaanga anccggggaa aaanaagggc 1140
cg 1142

<210> 4516
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4516
cacaccncaa angcacnnna aacnancacn angnccgaaa cgacccnnaa cgcgcgcgcc 60
acnncannnn gacgcggnng aannnnccgc gnaaaagacg nagcganaan caanacanag 120
cnnncacaaa ncaccncnca ccccccnccg agtntggaaa ccccnangca aanacccacc 180
ccacgnacgg cgagggaaac ccaaccgggg ccgcaatntc gncnacncng ggnagatanc 240
acnaaagnnn nnccaccact tnaattaaac ccagcaaaaa caccacacan ggacacaggg 300
gggggcncag gganggcnac ccgcannnna cccacanaca aaccggagnc gcgncgccac 360
annacacggn gcacnaanca acaccccaag anacnaaagc ccncnanggn aanagcccna 420
naacganncc ancnccanac aaccgaacac acnaacgcna cngaacaaaa accangcnac 480
agagcccanc gcanngnaag naaagcccac acaaanagca cgccngnaac nagaaagccc 540
aacagacnna caacagaacn nanaagacaa accccacggc ncnncaanag cccacganac 600
cacgnaancg nnacccccaa gcanaaagcg agaggaaccn nnncanaaag ncgcgaccgc 660
ngcggngnga nacaaggaaa ncaannaaaa aaangaganc nccncacnag cccaaanaan 720
cccgnnanaa ccgccnnccc g 741

<210> 4517
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4517
ggcanttgnt cttttgcnga tcnctcgttc gaggacnctc gagagttntc atgtactagn 60
atggtactgg ctgncnngcg aatatctnng accaattatn aaanaaatat gtgtagagta 120
ganataaant ggtaactagt nnnttatnag aggggaagtn ggntggnttt ataaattaaa 180
tgaacattta tgcggtcggt tatttnnacg taaaaatagn tgttatattc taggnaacag 240
aaatttagaa acctattttt ctgtagaaga aaggtgtcgc tatctgctnt tgatntctca 300
gatatttgct tctccttaga atgctatgan cagatntnta ttagaatgaa gttntctaaa 360
ggctttgatt ggcatgagct nnattactta ttngcttang ttaangatta gcccaataga 420
catattatct ttatggacca ttgcaaattt ntctaatntc taaccattnt taacctttta 480
tatatgaatn acnnaggaaa ccatnnnatt attataaagt ntattcctgg cncnntggaa 540
ngncactcaa tnangtattt gttaattgna gntaaatgat ccccagtnng agtagnnacc 600
tnncangttt ccnnggggaa tnctttntct accnaccgtg gggggnttac ctctnnaaag 660
attgtttttt nggttcccaa cttnaccgng gaaaantacc ttgggaaacc tggnccccct 720
nnagnanaat cntcgntttg ggcnccactg atc 753

<210> 4518
<211> 972
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(972)
<223> n = A,T,C or G

<400> 4518
nnnnactana nacatncaan tnnntcannn acnctcanan nnaacannna tacncncnnc 60
ananatnana natnncnttt caccacanan ctcactnccn tacacannct cnacnactnn 120
cnaagnggag ggaannntagn gantannaga gganatngaa angcggcgca cantaatttn 180
taaaggnngg ntctntaant ncttggntat cgncctcat gnaggnaccc atcgcannca 240
ctnngatcnc cncacagang ttacatannc actgttgcac cagcncagta actaggtatn 300

tnacacctac annactcaca ngtgcacggn tntanngncn acntntaact gctcttcatg 360
cttncanggc cctatnnang aaanccagan atnacannnc ttntactatn acttaccaca 420
canagngagg cnttngctnc ctaaacnnaa tntntatcan acaagcnntc catcaanatn 480
tctaantnna ngggctaata angaancaag tcnncgtgnt gtgtancctn ttctccctca 540
ncanatacaa tacaggagct gatatgcctg ggctcaccct gcttaanaac aaggnctcaa 600
cnatcngncc atacccctnn tattacccna gatgggaaac ctctgnanaa tgttgncact 660
ancctngact ctantctctn atatactgcn nctntatngt caatcncnat ntaaaccata 720
anggttcaat agcctataaa aagngcgccn gaaattagta tgngnnattn naggtnanaa 780
actcanntaa angcattcaa atcttcangc ctaccatgac cctatttctn cccactntaa 840
ccaanatgnt nactctcana tnggaggaca ncncctgca atnctctcac ctccccatnc 900
ctcaacatnc cacccangaa accanaatgt gntaancctc nttncaacaa aaatngnngn 960
ggtaagnaan cn 972

<210> 4519
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4519
tnagnttttt ttgtgggttt tctttttact aanngctggg ntatcgttct ttccgcagna 60
acccntcgat tcgaattcgg cacgagggga ggagaggcgc ggggagccag gcctcggggc 120
ctcggagcaa ccacccgagc agacggagta cacggagcag cggccccggc cccgccaacg 180
ctgccgccgg gatgctccag accttgtatg attacttctg gtgggaacgt ctgtggctgc 240
ctgtgaactt gacctgggcc gatctagaag accgagatgg acgtgtctac gccaaagcct 300
cagatctcta tatcacgctg cccctggcct tgctcttcct catcgttcga tacttctttg 360
agctgtacgt ggctacacca ctggctgccc tcttgaacat aaaggagaaa actcggctgc 420
gggcacctnc caacgccacc ttggaacatt tctacctgac cagtggcaag cagcccaagc 480
aggtggaagt agagcttttg tcccggcaga gcgggctctc tggccgccag gtagcgcgtt 540
ggttccgtcg ncgncgcaac caggaccggc ccagtctcct caagaagttc ccgagaagcc 600
anctngagat tcacatttta cctgattgcc tttattgccg gcatgncccg tcattgtgga 660
taaaccctgg ttctatgaca tgaagaaagt ttgggangga tantnccata cacaacacta 720
ttcctttccc agnatttggt actacttnat ttaacttnt 759

<210> 4520
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(841)
<223> n = A,T,C or G

<400> 4520
gttttttgn ncngnaaacc cttggcannn ncggancagc ggacncggtn ntcgnattng 60
gccgagggca ttgaaacctc cgttcatnat ttttcggagt taaanaggca gcantngcgn 120
gnntgtacac actnntanac aggnnnnnnn atngacttga cctnntngaa tctctaaatc 180
angttccata tggatcgaan gnccattatg cnattcanat gcngcccntt ctnanggngg 240
tgggnccntc nacccntngt gcncgtgcag aactgannnn gacggaccgc ctcantcnnc 300
ncnaacgtgc aanatgtatn nanncaggtg aaggggaaca ctaaccaagc attgaggtcn 360
naaaaacagg gatnnggtat agtganctnc ccnganagca aaagnanntc tgctcaccat 420

ttcccaggna gctnagaanc cgcngattcc tgaantcaga cacagaatna annctacccc 480
gnngcaggaa nctntcnntt gaaaattttc ctnacggngt cnttaccntc ttnggcttgg 540
ggantnantn gggcaccaag taaanntntt ntgcncaccn ntgggggnac cctttccatc 600
tgacccattc nnngctctgt aacttgacan gntttntttt ccgcnattgg gaaagntgna 660
ggggtgctan agccttaaaa atgnaanccc ctttttttte ttaaaaanaa aaaagtttgg 720
tccggctttt attcnattgg tngggatggn ggggggagga naaccannta aaggtttttt 780
ntcnngaatc cccnggggag tggnnccncc cgantttttt tgggttcaaa annctttccc 840
t 841

<210> 4521
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(938)
<223> n = A,T,C or G

<400> 4521
gnnncnnntt ctnnaagggg gggcaggggg ggtttccctt tctnacagcg agtgaggacg 60
tcnnantcgc ccnaaacana atagggcggg gnaatgcacc accagggaca ctcagncctc 120
cnancggcgg gcctngngng aagaagccan ngggctgggc tgatgnnaat ggtagnnnac 180
anngatccct gggggcatcn cngaccnnan catacnagtg gnannanccc ntnatnncct 240
tgnnaancnt nntgnaggan gcanttcact gctccaagaa cnctggtgcn aacttgacan 300
annggctcca tgccctgnag cccgcatgna tttgccggtn ncanacagag cacatccatn 360
ggggaaatgg gnactnatcn atntgnctng aaaagnagat gccncaatcc tgcacanccc 420
accactcccc atganacntc tgcnnggatc ttnagggacc ccccgtaact ggaaaacncg 480
nggccctgtc cccactntaa tgcacnangc acnccngagg ggnggncntc tcactgngcc 540
cttgctgncc acnacgccct ngaccgnncg ccacctgang ancgaaaccn nagccngcaa 600
ccccnngtnn cccancaccg gcancccatc cccaagcaan nncctncncc ccccccttta 660
nnnnccaaat cgntcccacc tnanntnacc nntcggcnaa agtccaccgt tccnnncana 720
gggcntnncn ccnganatgg cnnnatnnaa cacctngaan tctnngancn naacnnnnct 780
tccccaaana nctttnagcc cttngccacc ccnncctngg gggaancncn cctncggctc 840
aaagcctacc ttgnnaattn cggncaanna ggcccccngn ntnttccnnn catactngcn 900
tccccnnngg ggcccatnnc cgaccncaaa aggggcct 938

<210> 4522
<211> 1128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1128)
<223> n = A,T,C or G

<400> 4522
gctccacaga gcggntttct nacngcaacc ggacgccgng naacccccngg ngccgnaaag 60
gaagggnggg gcgnagggcg cncnncggcc gnccngaacg ggncacgana cagttttttt 120
ncnaacacng acnccgaaaa natgcnnnga gngctntncn antnnnancn nagagcgcca 180
nacgtngcac aaangcngnc ngccnagtgg cacccntnnc gacantcccc nagtntggag 240
acggncnaat gacnanaatn ggacccngnc nanngacncc ncacncacac cnnnagngnn 300
gacangangn gngcctaana agnanangcc cacnnnntgt gccacnntct angngnntnc 360
ccaggagncc ncanncgana cnaaaangcc ctnngggncc aacnggtggn accngccaan 420
ctngggnann cannaaggan gnntcggtaa ancctngnag gncngcagnn anacgtcacg 480

cgnggcctca ctnnacancc ctancancgt nccanntngg gntacactct ccaaacnaca 540
tgagtctcct cnccnaaant ctcgggggng nnncnncccc antcatacnc ancccncgna 600
aatnaataca ccncgctana tnccggcaan atctgcngcg acaagannna gaccncncta 660
cgactnntan ccannctann angggncaaa acggngcncn cncagnaaga cnccggcann 720
tncaanacan cncncattnn anannggctn actctnagaa nacntcctnn aanctcanct 780
cacccttncc ttgctntcac gnggcatnna cactacattn agngggntca cactcttcaa 840
aaggnctccc tggncncccn tngaaatgca ncnactcttc ncnanngnnt ntccnagcaa 900
accaanagnt caaaccncta accananctn cnntcccctg gcctggnccc ctttaaannt 960
gganaccant cncctatngn cnncggggaa aaacccncnt agcccacaaa annangctng 1020
gtgaagnnna atggaaagnc tatnctcaag naaatcccac ctatttaana ataancngnc 1080
cccgganccn aatntggccc cttaantncc actccntngn nacccggc 1128

<210> 4523
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(876)
<223> n = A,T,C or G

<400> 4523
gnattatngg cctaaatnnt tgaagnttgg tgatnctgcn tnggggatng tngttncngg 60
caagcccatg tgtgtacnaa agcttctccn actatncgcc ttgncggnca acaannttnn 120
ttgagataaa acaannactt tncgnagngt gtcaaatana gctgcggacn agaatgnnnt 180
tncanctgnc natgncncct gcatatgctc naaaagacnc nganagggan ntgnnttttc 240
tcctttgtnc cgtgcctcnn acttttagtc nctggnggaa gganccnacn cnatantgct 300
aaantgcatt ggcnanttga aggtnaggta gcaaacgact ncctanatga taanggtccn 360
gttannnaaa ncttcngtng gacncnangg tgnantnang gctcnnttng gccttanctt 420
nacgngctag nngnacntcc ganttattng gnncttcatn tcaggggntt gctttanngn 480
gacagntaga ccgaagattg gaaannngann ttggtggncc cattgnncnt actnnngttg 540
ttccgnnana nnctggnang nttgantngg tnggacnant ttgnacccnn ttggttttgn 600
gaccaatcng ngcaaacaat ggcaaaaatc cncttcnttt tcttnaaana nntaanaatt 660
cttanggttc ctgggggggcc tccctctttc tgcnccaacc tttcnccaat tannctttac 720
gntgggntnc tnttcaccaa aaaccnttgg gganggtccc aancnccnng gggaggncaa 780
aanaancccc cattggcccn ccnnacctat tttgccnngg tnnacgaann attctanctt 840
ttaannaann cnatnttttn atttnttttc ngaacc 876

<210> 4524
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 4524
gtgntttcta atgcttctaa tngcttggct actcgttctt tntgcaggat cccatcgatt 60
cgaattcggc acgaggannt ctntgctatn gaacagnggc tggtnnacac tnnggantta 120
nnnntgnacn ntannnattg nancanntan tactggnnnt ccntaatncn nttaatgtna 180
cntnttgcaa gnngnnctga tnaaatacac gacaggaggg aaanctantg cgtcataggc 240
acaggcagac ctaccgnnta aggagatnat ntnccnnang gntggctgtt gagnncatgc 300
aactctggna tgtatttccc tttataggac caccttgtnc atngtggata aagcccctaa 360

agnaggatgn naaagatgat cngatccaat acgttacnct gacannaaan nntgtnatac 420
ntcngctgan caatctntcc ancnnntnta atatcgtgna tcacctaggg tgtatgatcn 480
taggaactct gcncctncan tcnggactgt ccatcacnga ctnntgggct nctactgtac 540
antangcgna gaanancnnt cannctacan ntaaccagat tggtgctgnn anatggtant 600
gcnntttnan cncccacgac ncaataaagn ncnnctntnc cccanancct ntnnagggaa 660
gaaaggaatt ttncatagtg ggctcaatga angggtacc cttggncttt ntaaaaaacg 720
ttncatggnn cctaccttaa acctgngtna actnanancn nttngncata angggtctaa 780
cgnctatang gggnacnnat ttttnc 806

<210> 4525
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4525
ggnnttctaa tgctttctaa taccttggct ctngctcttt ctgcaggatc ccatcgattc 60
gaattcggca cgaggaaatg tgtatttcag tgacaatttc gtggtctttt tagaggtata 120
ttccaaaatt tccttgtatt tttaggttat gcaactaata aaaactacct tacattaatt 180
aattacagtt ttctacacat ggtaatacag gatatgctac tgatttagga agtttttaag 240
ttcatggtat tctcttgatt ccaacaaagt ttgattttct cttgtattac atttttttatt 300
tttcaaattg gatgataatt tcttggaaac atttttttatg ttttagtaaa cagtattttt 360
ttgttgtttc aaactgaagt ttactgagag atccatcaaa ttgaacaatc tgttgtaatt 420
taaaattttg gccacttttt tcagatttta catcattctt gctgaacttc aacttgaaat 480
tgtnttttttt tttctttttg gatgtgaagg tgaacattcc tgatttttng tctgatgtga 540
aaaagccttg gtattttaca ttttgaaaat tcaaanaagc ttaatataaa agtttgcatt 600
ctactcanga aaaagcatct tcttggatat gtcttaaaat gtatttctgt cctctataca 660
naaaagttct taaattgatt tttacagtct ggaatgcttg gatgntttaa aatantaaca 720
ttttatattt tttaaaagac aaancttata ttnatcctng 760

<210> 4526
<211> 1236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1236)
<223> n = A,T,C or G

<400> 4526
tttgttggng tttggntnng ggtgggggct tnttnttaan gnntgntnta aatcggtgng 60
anagncccta anatngaata gggttngggn ccatncnntt ntcntntacn nnnnncncnt 120
atgcggnnnn nngcctcann ngnacttttt tanatnattt tttnncctcg nnanngntnt 180
actcancgtn ntgttntgnt nctantccaa natacatgga tntgcccnnt actnnnnacn 240
ntacaggngc tngcccngnc nngttcnann nattancnna ccanntnntc ntnnttncng 300
anagagtnct gcnnttcntg aaatgttanc gccnctcgaa cacnntnnta tcnctanctn 360
gttctcttgt ctnntcctnt anatgantcn gancttttna atngagtncc taatctcnan 420
ngntcttttn gatcntntgg tctttgcnta ncttnnaacn tccttttgnt tangnanana 480
ancttcnta aattnannca anttnnnttc ctnnctaagn anngnncctt antnntntnc 540
ttnnantacc ctnancnttn ttcnancnna tcnttcncca cngtntntaa ntnnantnna 600
tttcnaantn cctnncntca acnacntcaa ntacancntc ctctcnanct atcacaannc 660

aanngncact aanncgtact atttctncta nggntccncg ctatttnttc cnacttnctn 720
ccaanannat annntanaan atnntccttc taacnttncg gctantctca tctctnnctt 780
anntnnnntc agcgacanat nnnncnctnc atatanatnn ctcangtann aanttctnta 840
tntntnccct nananacacn ntctntnnaa nttcttcnnt ntcttantnn natantttcn 900
ntntnttann natacnaact antntncntn nttntnatnt nnnatatcca cctntannnn 960
cantntncna tanntctnat tnaatcncnt tctacancct annnnntcnn ccntttnnta 1020
ttcnctttct gngnaatata tcnatattct nctntannna atttntttct ntcnctctnc 1080
antataatat tttnggggnn tntctnatna tntnctctnt aatttttncn nnntncnntt 1140
annaaacctt ggngaaatta atctcntant catntatnct nnnggnnatg tacacccaan 1200
ttnggttnan nttntnttct tcantnntaa nnngnn 1236

<210> 4527
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 4527
tgnttctaat anttgctact tgttcttttt gcaggatccc ttttgacgnc tttggcacga 60
gaaagaaagg gctcgtgaca gagaaagaag aaagagaagt cgttcacgaa gtagacactc 120
aagccgaaca tcagacagaa gatgcagcag gtctcgggac cacaaaaggt cacgaagtag 180
agaaagaagg cggagcagaa gtagagatcg acgaagaagc agaagccatg atcgatcaga 240
aagaaaacac agatctcgaa gtcgggatcg aagaagatca aaaagccggg atcgaaagtc 300
atataagcac aggagcaaaa gtcgggacag agaacaagat agaaaatcca aggagaaaga 360
aaagagggga tctgatgata aaaaaagtag tgtgaagtcc ggtagtcgag aaaagcagag 420
tgaagacaca aacactgaat cgaaggaaag tgatactaag aatgaggtca atgggaccag 480
tgaagacatt aaatctgaag gtgacactca gtccaattaa aactgatctg ataagacctc 540
agatcagaca gaggactact gttcgaagat ttttggaaga atactgagaa cggcataaag 600
tgaagatcga catttaaaaa atgaggtgaa agaaagctnt tgtggcatag aaaaagtntt 660
aagctcaant agtttttta ttattattat tattaaaagt tattcaggac tgatgtgact 720
ncngatttna gaacatgtgg taatagtnta nt 752

<210> 4528
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 4528
tgnttctaat anttgctact tgttcttttt gcaggatccc ttttgacgnc tttggcacga 60
gaaagaaagg gctcgtgaca gagaaagaag aaagagaagt cgttcacgaa gtagacactc 120
aagccgaaca tcagacagaa gatgcagcag gtctcgggac cacaaaaggt cacgaagtag 180
agaaagaagg cggagcagaa gtagagatcg acgaagaagc agaagccatg atcgatcaga 240
aagaaaacac agatctcgaa gtcgggatcg aagaagatca aaaagccggg atcgaaagtc 300
atataagcac aggagcaaaa gtcgggacag agaacaagat agaaaatcca aggagaaaga 360
aaagagggga tctgatgata aaaaaagtag tgtgaagtcc ggtagtcgag aaaagcagag 420
tgaagacaca aacactgaat cgaaggaaag tgatactaag aatgaggtca atgggaccag 480
tgaagacatt aaatctgaag gtgacactca gtccaattaa aactgatctg ataagacctc 540

agatcagaca gaggactact gttcgaagat ttttggaaga atactgagaa cggcataaag 600
tgaagatcga catttaaaaa atgaggtgaa agaaagctnt tgtggcatag aaaaagtntt 660
aagctcaant agtttttta ttattattat tattaaaagt tattcaggac tgatgtgact 720
ncngatttna gaacatgtgg taatagtnta nt 752

<210> 4529
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1017)
<223> n = A,T,C or G

<400> 4529
gntttcgaat gctgggagag ccgatngngg ctggnnngcg cccaannaag ccctttggga 60
aaganccgng cgngttgggn gagnngccan ggggnagnaa aggannnngn gnggaggngn 120
gggggngccn cngtttagng acagacncng gggagaaaac gggggcgcga gcncggagag 180
cggggngann atgnagggga ncggnnagnn nnnacagcng aaagggncng naaggnggag 240
nntaaggggn ncnggncncn anacncgagn gtangggcnn gncagagccg cngaaganag 300
cganncggga ggcncgggnn gnggggggca tggccgngnn nnngnggnag ccnagtnagc 360
gggnagaggg nangggcgcg gggggagnng acgnggggan gccnngcgga nggaatagna 420
gggggagggc nngngagggg gncggngagg gggannccnn gcgnnggggn nagnngacgn 480
ganacgagng nggccgggga ncgggaggnn gggggnccnn ggggccggna cngggganggg 540
gaggngngng gggangggan gggggggcan ccggnacngg nnggggngng gggggcaggn 600
ggnangaggc gngaggnccg cgggngnnng ggggaanngg gangnggggg ggnccnnggg 660
nggngnggga gngagagggg ganagggggg ngagccnggg nnnncagggn gnanagggnn 720
ggngnnnagg nggcgnnggg gaggagngng ggagnganaa aagnganngn cggggnnnnc 780
gggggngnng gagancagnn gggggggcng cgngaaggaa agggcggnnn agaggngcgc 840
ngggggggncn ncggggagnn cnggacncnn ggnggggcnn annganaagg gnnggggngn 900
ggnnggannn gnnggncggg gngnncgcgg ngngnggggg ggnggnggga acncnggnag 960
ngnnngnggg ggcncagnga ggggnnacac ncncgggggg nnagnnnnnc gggcgcg 1017

<210> 4530
<211> 810
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(810)
<223> n = A,T,C or G

<400> 4530
ggaaaggggg ngnnntttct aaaggngctt ttcaaatnct tggctactcg nctctangta 60
ggatcccatc gatgcggaat tgggccacna ngnnaggnag ggnntgcang ctgggngtnt 120
cactgataca ngcacgcgng tatgcaaagg aaggaaggga gcttaatgcc angaacagat 180
nttgcagttg gtggggtctc aataaangtt attttccact gaaaaaaaaa naanaaaaac 240
tngggcctct agaactatag cgagtcgtat tacgtanatc canacatgat aagatacatt 300
gatgagtttg gacaaaccac aactanaatg caangaaaaa aatgctttat ttgtnaaatn 360
ngtgatgcta ttgctttatt tgnaaccatt ataagctgca ataaacaagt taacaacaac 420
anttgcattc attttatgtt tcaggttcan ggggaggtgt gggaggtttt taaattcgcg 480
gcccgcggcg ccaatgcatn gggcccggta cccagctttt gttcccttta gtgagggtta 540
aattgccgcg cttggcgtaa tcatggtcat angctgnttc ctgtgtgaaa ttggttatcc 600
cgcttcacaa ttttcacacc anccattacc gagcccggga agccataaaa gtggtnaaag 660

ccctgggggg tgcccttaaa ttgaagtgaa gcttaacntc cacaatttaa atttgccgtt 720
tgcngcttna acttggcccc gtttttccaa ttcggggaaa aaccttgtnc gtnncccaac 780
ctgcctttna attgnaatcc nggccnnacc 810

<210> 4531
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

<400> 4531
ntgngggggt gagggtctac natnnagngg ggctncncnt gctctccgna ncagnccggc 60
ggngncgaat tcggcacgag ccaagnaata cctnggtaaa tnttctaacc tnatantgta 120
tncagggttn atggctcatt tagnttgaga gtgttaagag actggagttt taatccaata 180
ngngtgcctt ttggttctca gatatacata caagctgtga ttgtttagat gtttccatct 240
ttttatatat gcatatacat attattattg gtgttnttta ttttnaggaa ctgaaagaaa 300
atggtgaatt gctgcctatn ctgagaggag aaaattaata aatcttaaac ttggtgccca 360
actattgtna gaaatatcta attacattgg gagcagntca tgatntagtc ctcagaaatg 420
gactaggaat agaaaattcc tgctntctca gatacatgtt ctgtgtattt ncaatgtcgn 480
gctaaatnaa tgtatgttac attttttttc ccnccanaaa aaataannaa aaaactcnga 540
gcctcttana nctatagcga gtcgtattnc ggnacnatcc agacatgata agataccntt 600
gatnagtntg gnccaaccnn acctagaatg caantgnaaa aaangcctta tttcccgnaa 660
attttgngan cgcntnttng cnnnaatttn ntaacccntt tttaannccg ccaaattaan 720
ccnantttna cccaacnnnn ccnaatttgg cnattcccnt ntctnacngn ttttccaagg 780
cttccaannn ggtcggnaag ntctttnnga aant 814

<210> 4532
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4532
ngaagngnnn nnnnnnngtn ggctntctaa tnctngcnaa nngctggtct actngnnntn 60
tccncantat ccctnctaca cgaatccngc acgagcnatg atgnanatcg anatnnactc 120
tngttgatgt atatatttta ttnacactgg aacagctcac ncnctcancn tcttgcctca 180
nnacctggat ngatnnccgg ccncatatga gcaacttcat tgcagaantc acctgtaggc 240
ctgacagcct naaanagtnc cctttattag anagtantnt gncnacttct gatctgtnat 300
ctttatgtna agcatgtnta ttntgnacan catatacttn gantnctctg ncctacngca 360
tattctaatg tncctangnn tataaattgg ngtgtccaga ncanccnnnt taaatttang 420
ccngttntat taataattga ncctagatct nntctaatcc taaaatnaat cnatgtattn 480
cctgacctgn tntttattca atctgtttat gggaaagcat catgcancct ttacaaatta 540
tntnntcacc tctncacngc nagctttctn nntcnnnnaa gtnngggcta tctgantatn 600
gtccgcatcc cttgacnnnc tagntntccn ttnaattatc nctggataca ctgtggngcc 660
tagttaaann nccatncctt tcnangtgga atngnggnaa agcgcctnnn ggggancatg 720
gantttcaca aagcctcgaa ngtcccacgc ctngacgaat gcaaattccn angnttgttt 780
nn 782

<210> 4533
<211> 867
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(867)
<223> n = A,T,C or G

<400> 4533
nttttcnnng ttgggngnnn ngnnggggtt tctaatgtng ctaatggccg tggctactcg 60
ttcttnccgc acgcagnncg gngnttcgaa ttcggcacga ggtcctnntn nttttnttng 120
nngctgggng gnaactctnt attnnantgt ccggnagaag gatgggngtg ngaacanggt 180
ggncnctgtg cnngctncag ctttcactcc ggnngggntc natgctgtcn nggnccgcac 240
gnactgccan gnncacannc ctggcctccc gaggcangca cagcaagtgt gacgggactg 300
gaagccnttt ncacgacctt gnatgngctg gtcacgtcac agtcantggn tgccactcta 360
caggctgttg gggatggntn ancaggggna cactgtgcat nactaacagn cacctgngta 420
tgtgntgcnt anatcccggg nctggnnnaa cctccngctg ntcccatgca ccacaagact 480
gccantgtng anttgcntga ntccttnctg cnnnttttcc ancnatgana anctcctccc 540
tgcggttcnc nggaccngtg naanantccc gaagcccctt ngcatggcnt nggnttgtgg 600
accnncccgg cctttnancn ggccntcncc ctanacggct tgntancccc nnttctacna 660
tcccnggctc nttcnncnnt ttcnttcata aaccgcctgc gtccttncac ngtcggnttn 720
ctcggggncc ntncctctcn ntggggngnt tccccnccct cctcaaccct ttngnccccc 780
tggattntac ctanngntcc cttnaaattc tnnnccaacg gccccnctnc ccnccgcccn 840
ngnctttncnc cgtntnactn acnncct 867

<210> 4534
<211> 1038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1038)
<223> n = A,T,C or G

<400> 4534
nccccttnct gtagnccnnn ccanngngnc tttctaatcn nggngnggcg ctgganatcc 60
naaanagacn ngccgggcna nttnggggcg aggngnggng ggggctgnnt tgnnctnnaa 120
antgnnngta tcagnacntt cnacgcntcn gancccgncn ccatantang ggccnngnan 180
accctggcca acanntngcn ccaccatgnc tnnnccccnc ttgacattnt nacnaccnnn 240
ctgaancnnt ccncnctncc ctaccctacc accncgtgct cnanntacan gcttnagnnn 300
ctncgcctag ncntgncnnc cntntatcnc nanagngact aactcnnntt nnaccagnan 360
nnnacnncnc nactctgcct nccatcggtn ancctanntc tactcnacga tacnncnttn 420
accntcatca catcattctc tccctgatnn ntnagtnncc caaactacnc gcccnacacg 480
nctgtgcntt ggtnccccaa acnncnncat gnccnnnaaa ntcttncncn cnctnngcca 540
nnccaccncc naaccctnac cntatttcct ntctccctnc naanaaacgt taaaccnccc 600
taaaanatnc cccctatccc cnnaaancnc ntaccacctc nncggcnccc acccccncct 660
cgnngacana anatctacct tccgncacna caaacccatc ctccanttnc ncncacnacn 720
aatntncaac tttanntcna acctnnnccn tnctanntcc cccttccnca nnccccccatt 780
tnccctttcaa aanctcccct ancccnaacn tctcccccctc ctaactaata tcntcctctt 840
gcacantcna ccntctaatc atcncaccac tnnncatnca ctccttcaat ataccntttc 900
tcttcnnaaa anttcncctn tncncanatt cctntcnntt ctaactctct cntctctctc 960
cctnnancac ntctctctca ncggtctatn ccacttcnct ntncnctact ctcntccnca 1020
nctccaaann ccacccct 1038

<210> 4535
<211> 932
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(932)
<223> n = A,T,C or G

<400> 4535
tccccaaaaa aagaatcatt nggttttgga aaagaatacn nantcagnaa ctnttcnggt 60
gtgtggtgaa aatgtcaccg tgtgtggnat accctatctc ctggctacaa gacctgattg 120
aaaangaaca gtgtccttac accagtggaa natgagtgca tcaaagactt tgatgaaang 180
gantntcang agttgnatga gctgcagaag aagttaaata ttaacatttc cctggaccat 240
aagagacctt tgattaaagt tttngggaat tancnttaga tgtgatgcag gctanagatg 300
aaattgaggc cgatgatcaa gagaagatnt gattggccaa aagaaccagg aatcccggnc 360
cagattcgtn ttnantgant ttataggnat ggcancnttn atggacnaat aaacacttct 420
tcatttgttt nttaacnaaa ntgtnccnn ttttgaaact cnttngggat gccanagggg 480
aggnnaaacn ntaagnectg tttcccccaa aaccngnant anancggtnn gtganaatat 540
ntataattgg tngtcctttg nnttctcttc nngngngngc anaaananat tntttggncn 600
ntgcgntgtg ngcncccttt cnaaaatctt ttgattngcg gagngngnna nnnnctctaa 660
ntgnntttcc gtccctttga cncngaannt ttgtgggnnt ttgggggcca ttatnataan 720
ttttttntna gntcggtggn aaaaatagnt cnccttctng nnaaaanata cnttccttna 780
ggntntnaaa aacccnannt aagnnngcgg ttanaaannt gtnaannact agagnntnnn 840
gnatnctttnt tgttntatnt annnnnnngn ttngncnggn tnaaanttnn gccnctncnn 900
attttantnt tatntaatcc ttntnnggan nn 932

<210> 4536
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(836)
<223> n = A,T,C or G

<400> 4536
atacactgac cttgcccgct catctgcgag atgaccctgc aggaatacca ctatgtccag 60
gagaaggctt ccaagctagc tgctgcctgg cttactcctg gccctctaca tgaagaagct 120
cggatactgg gttcccttcc tggagcatta cagtggctac agtatctctg agcttcaccc 180
cttggtcaga cagctgaaca aactgctgac tttcanttct tacgatagtc tcaaggctgt 240
gtattacaag tattctcacc cggtcttctt tgaagtcgcc aaaatncctg ccttggatat 300
gttgaagctg gaggagattt tgaactgtga ttgtgaggct cacggcctgg tactctacan 360
cagccacagg gctaagcatg catgttaaca gggtatattt attctatgtt cgaatttgtc 420
ttttgatcgc tcanattcat tttnccttta nttgcttttc ccaaactgnn aatggtataa 480
atatctatgt ngcttggttt tatgaaagga aannaaattg gcanatttga ctncaaattt 540
aattanaaaa ttnatgggtt attggttaaa aaaaaaaaaa aaaaaaaaaa ctcgancct 600
tttaaaacta taaagaggtc gnaatanccg ggggngggcng gaccatggan aacaaacatt 660
tncctgaagn tncgggccaa accncaacgt ngnatggcaa tngnaaaaaa aannccttnt 720
tttgggaaaa nttggggang caaatgcttt tattgccanc nttttnaaac tgccaataaa 780
caagtttacc ccccncaatn gctttcantt tatgttttnn ggtccngggg gagggn 836

<210> 4537
<211> 1039

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1039)
<223> n = A,T,C or G

<400> 4537
atggnnnnnn nnnnnnttttt ttttggaaaa aaannnnccc ccctttttttt ncctnaaaaa 60
attgggccnt tttggggcaa aaantttngg ccctncttcn tnctttggnn tnttgnnnat 120
nccccnatt cgggnatttt nccggaaaat ttccggggcc naccggnagg gggnattagg 180
ccctttnana nagncccaaa nggtntntta cccaaagggn tataattttt aaagnnatgg 240
gggnaccagg gtgtntngcc ccaatttagg aaagggaaat tttntctnaa atnaagttgg 300
gggtntannt ggccangtgg ttacctnggg gcattnggna aatatnttct tgggaacttg 360
aggtntaaac tggaanggga gnagccctna aacctatagt aacttcannt ccccacaagt 420
atactagaat tngtgcatcc tcgatttata ttgcaagngt ntcaaangtg tcactgnnac 480
acaaatagaa acactgccaa cttggtgtaa cttaagctnn catttaacta aaacattntt 540
ttcttgcaaa acttatttat tcatgatcaa ttttntggtt atntattata ctttgattcc 600
taaattagtn catccttgaa tctatgaaac tggtgcagtc attatgcccn naaatnntct 660
naaaatatat taatgggtca ccttnctgnt caaaggggtg gtgcaanggn cttgcagcat 720
tnttacatnt tgtgctttgn tangaaaatg taaactctna ggctccacaa nttnactttg 780
ctgcattttt taacaaanaa tccccaangg gatatgtaat gctcataana aatttgggac 840
anctgggttc nantggaaaa angggntctn aagggnatgg cataaacttg gtggtnccgg 900
tnanggnttt naaggccttt tccaacttta nannnntttc tgattttgga antnttccan 960
tnggntntaa naacctnnnt tatatatcna anattagggg cctttnaaaa aaanncttat 1020
ttnngctagn aaaccntnc 1039

<210> 4538
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(743)
<223> n = A,T,C or G

<400> 4538
ctnnncctcc ttgatccntt cctnctttga anncatnngc tacttgttct ttttgcagga 60
tcccatcgat tcgaattcgg cacgaggctg acctacatca gaagctgctg gatgcagnaa 120
agtgaaaaca gaccaaaaca acacngggcg aatcttnaca ccattntggg tgccnnatnt 180
nnccnnngat atttgcttgc tnagctctac tcctccaaga nannangnnt caaacnctnc 240
agcangntag agcanntnaa gaccgcntnt nctnacctnc tnaagannct ctgngaggan 300
cgcaatcctt tngtggaana tagaatcaac agaccacact gcnctctgga ccatgngctc 360
tcaaangngc tagaaggtgc tgacctttтn agactcttgc agaagaggcg angtggtgng 420
anaccctnna ggaanacttt cccgaactag accncnnctt ncngaacnng ntcaactgtt 480
ggggnngaaa ncntgtgann tgtngncctt cngagagacg gcatattcta tgatggcnga 540
cttnatnctt ctgcggaacc anactngacn tactgaaaga aanctganac caagcgtctt 600
ccttaaggac ccttatatcc agacnatcct ttggataata ccnctnggcc aaaacctnnt 660
aactntgcat acaatcngga tggcaacatt tgaactggng gccttnanna ccnttaccgg 720
cttttcncat tatgnaagag ntn 743

<210> 4539
<211> 849
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

<400> 4539
cccnctattg ccnncnacat ggggnttttc caccccgntc acgtggtggn cgcccanncg 60
nacnagcang agcctacnan tcggaacata tcgcctttat ngtctttaac anaganntnn 120
ntnnntagnt cnattcantt atnacccagc agatccttaa tnnaggcccn tatattnctt 180
acctnattag aactntnnnc aaanntcaac tgnntnacct taatgnntng nagcacntnt 240
nacagnngna cttaaaactn tanaatntcn tnagnnncng ttattctcca ctgaaggnct 300
ntccactgtn caccatttca ngcatcatca ctatgattct ttcancanga ctntggcncg 360
gnttgncact gatctntnnc cnaatggcna acnagctgna tnntcnnttg gnctcnctta 420
taggaacnan caacactagc ctactgnatc atgatntccg anaactgaac catgaacact 480
gccatctnnc catgntacct gcatnaagaa nttcacntca ctctgaaaca tannatgact 540
gacntgganc tnactaattn ctgagaactg nnnntcaaan nacccactta atngggntca 600
ncatnttgnn acncttgnaa tntaanntna nnnaaagacc nnnnttgant ngcccncatt 660
ttannttngn ccataataan ngngccacnn ncctnaannt cttcaancan gnaaaagntt 720
ngcaacttnt tacnacctct ncttccccnc tnnatctaan atncnnnata taccacttan 780
cccagaatan ctacncccaa nccanncant caccncccca cnattttatc tcacanttcc 840
ncantccct 849

<210> 4540
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 4540
gnnnnnncnn cnnntgggng nttgtggggg ntttnnaatg ttgcnaaaan gcctggctac 60
tcgttctttc cgcaananncc ntcggttcga attcggcacg agggagacca tgcaaagcct 120
gaacgaccgc ctggcctctt acctggacag agtgaggagc ctggagaccg agaaccggag 180
gctggagagc aaaatccggg agcacttgga gaagaaggga ccccaggtca gagactggag 240
ccattacttc aagatcatcg aggacctgag ggctcagatc ttcgcaaata ctgtggacaa 300
tgcccgcatc gttctgcaga ttgacaatgc ccgtcttgct gctgatgact ttagagtcaa 360
gtatgagaca nagctggcca tgcgccagtc tgtggagaac gacatccatg ggctccgcaa 420
ggtcattgat gacaccaata tcacacgact gcagctggag acagagatcg aggctctcaa 480
ggaggagctg ctcttcatga agaagaacca cgaagaggaa gtnaaaggcc tacaagccca 540
gattgccagc tctgggttga ccgtggaggt agatgccccc aaatctcagg acctnccaag 600
atcatggcng acatccnggc ccaatatgac gagctggctc ngaagaaccg anaggagcta 660
gacaagtact ggtctcagca gatttgagga gagcaccacc agtggttacc acacagtctg 720
ctgagggttg gagctgctga gacacgcttc acagagcttg ngacgtncag tccaatc 777

<210> 4541
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(890)
<223> n = A,T,C or G

<400> 4541
anttttanct tgaccccttc aannangatg aacataaagc tcttacgttc ttgaaaggat 60
naaacacaag aataagatgg ggtnccagtg accagctcct ctacctgggg tcatggagga 120
ccgaagaccc tccaaccttg atgcctgtaa ggacaggcgc tnctgtaagg gatcaggtgt 180
aaagaatctg gccatagctc ctgtacaaag cctctttgtc tgaagtactt gggtgctctt 240
tgacggcaag agggaacaca acctgtccgt ggctgcttgg acctcaccac gggggctcaa 300
gtggacataa catctatttg acaggccctg gcantcacca ntggggtgtg tgtggcagtn 360
gctgtggggt gtgagaatga ctgccaacag gcacttctca acaaatgacc tngctgtttn 420
acattggccc tgaaccaggg angaaagnag agggaccaat tggaagcctt tgttnccanc 480
atttccttct taaaaaaggg gaganacaat tttaaaggca cngttgttat ggaatttggg 540
aattaaaagc aggaggcttc aaagggtggg tttcttgann tnaaaggaac acaancccgn 600
nggggggttt tgnnggggttc nacccannag nccttcccct ggggcangan ancacncaat 660
ttngtnncct nattgccatc nnatttattt gccccctttt ttnantannt tggttnccca 720
agaaattaaa tnnntggtnt tattaaattc attttgttng ctttnttttt tggttcggga 780
aagntntttg cntananacc ccccccaaaa gaataattga attgggggtn ccccttgcan 840
cctatttgat ttnttttaan gccctgtnaa aaangncttc cccancccnt 890

<210> 4542
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4542
ngggntccnt tttngaaagg nctctctttn aagacccttg ctacttgntc ttttngcagg 60
natcccatcg antcgaattc ggnncgaggn tggccaggan ggtctnaatc ctgancctca 120
ngaggnggng gantgagttn nagaanngcc tgtcgnangg agatttgggt agaagccctc 180
atgctgagct ttgtgtccct ggtgatgttg gaacattaat gatggaacat ggccaaactt 240
cagtcatgat cctgaaacca tggcttcagg atcatgactg acgtcatggt ttcttccctg 300
ccagaaatga aggttcagtt atgaggcaac cctctagtaa ggcattgtaa aagttactgg 360
atttggttta ataaaagttg aaataaagtn anataanatn aaanaaaaaa ctngagcctn 420
tanaactata gngagtcnta ttacntacta tccagacatg ataagataca ttgatgagtt 480
ttggacaaac cacaactaga aatgcagtga aaaaaangct ttatttgtga aatattgtga 540
tgcctattgc cttnatttgt acncattntt aagctgccat anacaagtta tncaaccacc 600
nanttgcntt catttttatg ttttcatngt ncatgnngga ggntttgggt aggtttttta 660
atttcncngc ctntngctcc cantngnatt ngggccccgg ntcccnanct tttngttccc 720
tttacttgng ggggtaaatg ccncccttg gngnnannna tggnnctacc 770

<210> 4543
<211> 861
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(861)
<223> n = A,T,C or G

<400> 4543

tngntntnnn naaagnngnt ctnctctana gntgannntg ntgntgaacc cactntcccg 60
cannaancnn gcgngncgaa ttcggcacga gcctantacn gtagncttgg agcatcacga 120
ttttttnnna ngcntgcatc agtatactgg aggacctnct ngcnctgcng gacanagacg 180
tccnacagaa tnnngaaaac ngtgctcagg actanannct gaccaacacn cgtgcacana 240
agcaaggaan tagggcngga nancnantnc ngnggcntnc agctctgncn cgcannatnn 300
gntanctnnt gacttancgt ganancaatg aaggnnctna accaaagtnc ccanggggac 360
atnganaaat agcacnangg gccttgtatn ggacnntacn cnntnccnaa cntggntncg 420
gggntgnnac cntgggaaag gagccttctg catnnncnnn cgccntaccc atgancnccn 480
ctntaccang gctntgcccc ctgagccaan cncgctgggt ntgctgcnaa ngnaanaanc 540
nanntctnca gatatggacn taaccntgca aatntanaan ncttgccaat ttcnattttg 600
ccangatccg ncnannccac aatncctcct nnaanagaat ccnccacncc ccncnagaac 660
ctcngnaaaa cattnnggnc nccncctnng nagctacaat tnnctctcan cctagganca 720
cncnntcgct atgcncccnn cttaccaanc ctanttcnnt cgnancttac ccnnnnttac 780
ccntnnggca tttcccccnn accnttgnat ttnannnatt tcccttcnng ganatgcaat 840
tctcntgngc acccaacaac c 861

<210> 4544
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 4544
tgtgngtgct taagcagatt gctatgatgc atgtccataa aacagntttc tttctgttct 60
attgtggagt ttttctgggg ctggaaaaca ttcttttgtt atttccaaac actgtctata 120
attaccagac atgatataaa cacataaggt gccaactgga atttactcta gaggggactt 180
tccctctcag acttccagtc aactcacact tgtgcaacaa agtgcatgct gtcccctaaa 240
tatgcaagca gaactgtgtt tctgcctatt tggtatctat agtcctctac agtcacttct 300
agagagacta aaccaaattt ctaccaactt cacagggcaa caatcaatag ttttatctca 360
atgactcttg tatcttcaga ccttaaactg attcagagac catggggccc acaaacctaa 420
tcaagagtaa cgttttcatt gagtacacat ttcagacatg agaatcttca ctttcccctt 480
ttttctcttg gtaaaatgtt cacaaaatgt gcaggtaaca cctgctggtt actncagcca 540
ttcgggcccc taaatctgca gctcttcatt ttggatctag gtcttgagaa tttgggaaat 600
agaaaaattt ttatctaaaa atgcaagtct tttgggttat caaactcaga cattgaaaag 660
aaaagngcag ttacgccttt ctnctcnttg aaanatgnat tcatctnttg gaactgggtc 720
acttttggcc ncaagttgat gtntattaaa ctggatattc cacattggac actggatctt 780
atccctaaac cataatgana tatgtccaat cnt 813

<210> 4545
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(960)
<223> n = A,T,C or G

<400> 4545
tgggttttca ggngcccctt tnanacggnn gcggcctttc gcctnnncgn aanagcccgn 60
gcgattcgna gacngcnnga naagtgncnn angtnncttn ntnatggtga ggactttatg 120
nanctgangn cantncnngn cntgantatt ntcnncnnnt ggnaagatng cacgtgtntt 180

ancctgatgc cagntggngn tatcccntnc ncnnnttntt nnttcacggn gaacnnnata 240
natngannag aatggnatca gagaaggata ctcactntgc tctcacngat tagcggcgat 300
tngcntgatc ncngctgnca tgnaacccnt atctctgngn ttcangcgac tgannggtga 360
ncaccncccn nctagntgnn acnnatnnca ctcctnngac tntccngcaa cntnttntnn 420
ctntnagngn gtnncngnnn ttncaccgnn nnnnccncnn ttngnncnca tnctttttnac 480
cccnnttggc nccacannan ctnccttttgc cataaannct ttnntntacc atganngnga 540
ttncncnctt ttngnctnna tcncntntna attcaatncn tanncnntta tccnnccntt 600
tttcnttgnt ccnttttnct gngnantngn ctgggaantt ttggtntccn cctanntnga 660
antcngcctt aanatccttt gggtggacnt tgggcangnt tcttctnggg gaatcccttt 720
ttnatggaat tggccttnaa ggccnnttgg tcttccttgg caaccntngg ggtnggccnt 780
aaaatgggcc cctnaanttn tttanaatnc nncnnnnantt actnttttcn ncctccaacc 840
nntttacccg gttgggctct taacccccag gntgggaatt tcaaaatttt taaggnttcc 900
ccatttnttg gaaaacctta ntttngggac cccccatttn gggctnccna ttttnggaat 960

<210> 4546
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 4546
tnttnttgga aaagggcagt gtctctaaac ccaggcaaac ggtaaatgtg gggcatanca 60
agagggccgg gtagtggcca cttncccatc atgctcgntt ctcattttgt gttttttagt 120
agaaaaacac agggtgttct tttgcccaga cattaatctt tagaatgcct gtnttttcta 180
atgttgggat ttctttcaca accacccacc ttaatatttc cattgngact caganaatca 240
gacttcattc gattctntag agaactataa atactgttgt cagtagaagt gaantcttgc 300
ttatgtaatc ctaattcaga atgtgttctc agaagaggta ggcnnggacc ananctgggc 360
nagaccacag gcagaggcca aatccnnccc cctgccgnta gnagctaata tnagttttac 420
acccacttgt tcatgtattt tccctggcta cttgtgggca gcaatgccag agtcaagtca 480
tcataacaga nacagaatgg cctggaagct ggatttacta tttcaacttt tacattaaaa 540
cttgatgacc cctgtgctag acaggcagct catttctgcn ggtaaaatta tatttcatct 600
tccaactttt catttccaaa atttgaacct atattactgg aggccccttа cnnaagntaa 660
anttttcatt nttcttttgg ggggaaannc tncagaaaaa nccctnngcc cntttaaaaa 720
cttnnatgng ggtnnnttac ccntgtccca cnctggaagg tccntngggg nttngggcaa 780
ancccacna nnngtgcccn gaaaaaatgc tttttt 816

<210> 4547
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4547
taggagtctg aaggcctcgc tgctttctgt gatggctttg cagtaagtgc cgcctggcct 60
gcatgcattg gctaacaggc tgcagaatgg cacngaagga ctcgctcgag attgtcatgg 120
ccagagatca taggtcactt naggtagcaa gacccctgnc aaactgggca cttggcctat 180
gtactgattt gtgggatggt ggcaggggtg tggggtcctt caccctgcct gaattctctt 240
tggcttctgt gctctgtatg ctgctgtccc caagggctct ttcttattat ggcagngagt 300

ggggattggt cctactttct ttctctggaa anggaaagcc tccaagactc catgtgcttg 360
ggcagcttga gaaggcgttc ancaccacgc ctagcaggca gaccttgaag cctcaccttt 420
antntatctg caagaggtat tcanttcctg gcacaaggga ctaggggcat gtanagtata 480
tgacgaggca atatggctgt gcnggacctt catttaactt caattaatag ggaaaaatta 540
ttatactcta tagatcctga aagggttcta agattaaaan catccttatt aaaatcttct 600
aaanaantct ggaaagaaac acctaatcta naaaaggctt gttnaaaaan ccacagngat 660
gggttnttaa gaagcaaacn ccncagcatt tccatttaag taaaaactaa ccaaggcagc 720
ttttatttaa gaagngtccg gccttctaac cctgcacaag ccnatgagga catatggaaa 780
atttt 785

<210> 4548
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 4548
gngcagctct tgttcttana gncaggctac ttgttctttt tgcaggatcc catcgattcg 60
aattcggccc nagctgtgng ggacacattc nnactgcggc aggacntgtn tgctgnctna 120
tcacnttgac ttgtaatagc attaatnntc aagcgattga tntatnataa nngncattct 180
agcatngtnc atggcngann ncntcctggn anatgntaac ggtcttgcna nctgatncct 240
ctatctgnac tgggtctctg gcangggcct gatgnatngt anatactcgn tangtatcnn 300
ttnngttntc nggggntctn tcatgnnngn natnnnagca cccangaggn actacactnn 360
caagaaaaaa tggtngnctn ntacngagct gtnaagaacn ntggaacntg ctatcctgan 420
gccnctnaac ttcatcatgg gatgcctanc ttgtatnnat gttncnttnt gnntaacccc 480
atgatctgan tntggacact aagancnntg tcatnggctg aggnggctnt gaagngnact 540
cntaattatg acnctgggat ntaaacggtg ctcacattgt cttgnanggn anttttтcaa 600
aaanggattt ncgccttttg gncccntggg aatttaatag gcaanaagtt ttggccntaa 660
ttgccanang anganancct ggantgctaa ngaacggcnc tnttgcctcn nggatggncc 720
cctaacttna aggg 734

<210> 4549
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(621)
<223> n = A,T,C or G

<400> 4549
tgnngggcna ganacccgnt ngggctgcaa gggccggctt gacccnacgn atnccggggc 60
ananatgcct gtcnagncnn caaaggaagg ttgtnncgct ttacgcctat tggtggaaaa 120
aancccnttn tngaaggtct atcctcaaan ngcnnntngc gttcncccga ctggccgttt 180
atncaccnct ggnnaagagg ganttnattn nacccgctct tttttanaag annnnaaagg 240
ttcngcatnn tggggcnnnn gnncacactg gctttgaana gcnanagctg agtgacatcc 300
acccagatnc aaaatggtna catgtcaact gtggccgaaa acgnggccgc actgncccat 360
ccgctcttcn ggagnttgtn ggccctttat ncgcacnaaa ttgcagcctg ccggatactg 420
tattcacaca ggctntgagg ggggagggat tgttntcaga atgcattaag cgcnttnaat 480
agcctgcntc ngttgctttg tcaantggtc ttnacatgaa tgcccgtccc ctgaatatcn 540
ngtaatcatc tatcnnacct gggatcgcaa nncgttaaaa canaagggca agtgacggng 600

gtcgtactgn gnaagagctc c 621

<210> 4550
<211> 971
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(971)
<223> n = A,T,C or G

<400> 4550
nccnctttntn tntagggngn tngtgggggt tttcnaatnt nngctaatgc tgggctcntg 60
nnctttntgc aggtatccca tcgattcgag ngatgcactg ngantacacg cnctaaaaat 120
cgcagtcctg gccanaagac gttatggnca ttgtgaggga ctgggggnnt tggtcctntt 180
tnaggggctg tnnggactca aatcggtgnc tggtttcaca catatgtgtt ggtttgtggt 240
ncaacttctt tatctganaa cnccagtgat aaancattga tgntactgac caatctaaac 300
taccatcttg anagagtngc anctgaaant gatgcgatag gcgtgncaag tatctgatna 360
cttctttnan gcatacgnna naantgtatg ccngttacnc ttgnangata cctntgctnt 420
nacaggntca gtatntatca gtnngnacac aaacacatga acacattcng atanggctta 480
tttcacacag ttgaagttga tgatcntccc ctggagtgct ctgntanata tgncncngcc 540
tntangggna aaanaacccc acactgcttc tntgaccacc ccnagcntnt ntnncnntan 600
taatatttcn tncannngng naacgtnnnc naccgcctnn aatncctnnc cntcgnaggn 660
naaaanccca nttnaananc gncattnnnt tgcactcccc ctcnnnnact caactnaccn 720
acactgggcn caannccctn gnnncacaac cnctttntnt tntctcacng ggaatcggca 780
atnctgcact ttcctatccc tggncttaaa aaanattana tctccggnct ctatcnnttg 840
taagntcacn antcntcctc nntancaaan cnanacnncn annttttnnc aaatccttcn 900
tnncnccnca nnncnnggng cacantntnn cngtgncnna actcntnggg gcnnatntnt 960
cncnccnctn t 971

<210> 4551
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4551
tttgaaaacc cnttttnttt naatcctttt ctttcaaatg gttctngttc tttttgcagg 60
atcccatcga ttcgccaatg gatgcaggna aaactgagat gggatttccc cacgttgccc 120
aggctggtct cctgagctca aagcaatcca gattgctggg attacagctg tgagccaccg 180
tgcctggctg agatgacttt taaaaaaaga cttctctaaa gtagaaggaa gggtggaatt 240
gtatgcacaa gaagaaaaaa acctggaaga aaaacatact aaagaggctg gagtgcaatg 300
gcgcgatctt ggctcaccgc aacctccgcc tcccgggttc aagtgattct cctgcctcag 360
cctcccaggt agctgggatt acaagcatgg gccaccacnc ctggctaatt ttgtattttt 420
agtagagacg gagtttctcc atgttggtca ggctggtctc gaactaccga cctcaggtga 480
tccacccacc tcggcctccc acagtgctgg gattacaagc atgagccacc gcgcccggcc 540
tncctgttcc agttttctat aatctgttca tattatattc tgggtatatg tgggtggtgt 600
gattatccat gtggtcttat tttcacattc tttgcattaa ctataatgtc ttaatgnttt 660
aagataaagt ttcattctac aaagatgtat tgtaccaata acctgggtat tcaggttacc 720
aatcttaaaa aaaacttant tcattttnaa aattaaacnt taaaatttnc caattccatt 780
tnaacattaa n 791

<210> 4552
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4552
tcnttcagtt attcgttcag ctccttgntc tttttgcagg atccctcgat tcgctcagct 60
cttccggagg ctgaggcagg agaatcgctt gaacccagga ggcagaggtt gcagtgagcc 120
gaggttgcgc cactgcactc cagcctgggt gaccgagtaa gactgtctca aaaaaaaaaa 180
aaaaagaaaa gaaattgtcc tttggttgcc ttagttccag agttgaatga atgtacacat 240
tcngtagtgg ggggggcaga ccggataccc cttccttgtc tggttccttt gaaaaaggac 300
ctccaccttt caaaggtact taaagccatc ttttacagat tgcttgtaat gtaagggaaa 360
agaagtcatt gtnctttggg attggattgg agggnaaaat catcaaccac tagccccctt 420
ttcaaaatca gcgaagatat ttngatgatt aagtgattca ttgggtatgt tctggctact 480
gatgttactg aaatctgcaa tcgngtatgn tttttaatta gttgcttttg tatttgaatt 540
tatgacattt cgaagtttct gngcttaact ctttttaatt aattttctgc acgtngcttt 600
tttctctttg gttttaattc catacagagt attcaattct tgaaaacaca ttaaaaataa 660
tttgcttgca aaaaaaaaaa aaaaaaaaaa ctcgaacctt tanaactata gtgagtcgtn 720
ttaccgtana tcccagaccn tngtaaaatt aaaaaaaaaa t 761

<210> 4553
<211> 1281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1281)
<223> n = A,T,C or G

<400> 4553
atttttttaaa ntttnggggn naaaaatttt ttctttttttt tgggtccnaa anattctttc 60
cggnccattg gccccccttgg gcccnagggg nttnccggga aaccttccnt tnaggnnnng 120
ggggaaatcc ccccccgggg ggnggtttaa ccccnggaaa ggccctncgg gnaaaaattt 180
tccgaccccc nttaatnaag nttnttttttt ttcnntttnn tttaacaaaa ttttccnact 240
tggggncccg gttccggttt ttttaaacna aaacggntcc gggnggaact tgggggaaaa 300
aaaccccntn gggnggttta ccccaaactt taaaatnggn ccttnggcaa gcaacaattc 360
ccctttttcng ccagcttggg cggtaaaaaa cgaaaaaggc ccgnanccga atcgcctttc 420
caaacagtgg ccaancctng aatgggaaan ggnccccccc tgtaccngna ccataanccg 480
ncgggggtgg tgggggtaac ccccaaccgt gaacngttaa nntggcaagc ggccctangg 540
cccgttcctt tcngtttctt tccttccttt tttcggcaac gntanccggc ntttccccnt 600
caagnattta aatcgggggc tccntttang ggttcngaat taagtggctt taacnggcaa 660
cctcgaaccc caaaaaactt ggatttangg gnggaatggg gttcaacggt aantgggggc 720
caatcggncc cttggaataa gaacggggtt ttttttnggcc ccttttggaa ccggnttngg 780
gaaagtnccc aacgggtaac ctttttaaaa taaagtnggg gaaccttcct ttgggttttc 840
ccaaaaacct tgggnaaacc naaaccaacn tttnaaancc cccttaatcn tttggggggn 900
ccttaatttc nttttttggg naaattttna aaatnaaaaa ggggggggaaa attttttttgg 960
gnccccgnaa aatttttccn ggggnccccct naaatttggg gggggtttaa aaaaaaaaaa 1020
aaatgggnaa agnccttggg aaantttttt aaaaaccnaa aaaaaaaaaa attnttgaaa 1080
aaccggcccc ggaaaaantt ttttttnaaa aaccccaaaa aaaaaattng gtttttnaaa 1140
acccgggccc tttttaaaac naaaattttt tttccccctn gggaaanggn cccngggggn 1200

aaaaattttt tttttnnatt tcnccccntt ttttnaaaaa aaaaaaaggg ggggggnccc 1260
cccccanaaa aaantttttt t 1281

<210> 4554
<211> 916
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(916)
<223> n = A,T,C or G

<400> 4554
tttgaaanca tcanctctng ttctttntgc aggatcccat cgattcgcag aaagggaaaa 60
tatgaagtgc gtgctggggt ttgctatcgt atccacaggc atcacggcag tgctgctcgc 120
cttgattttt gttctcagaa agagaataaa attgacagtt gancttttncc aatcacaaat 180
aaagccatca gcagggctcc ctnnctgctg taccaccccn gngaaaattn gccaccctaa 240
ttttnttctg gntcctttgg nnggntgncn gctgaccctg ggaactgaag ganctgccca 300
tnttatgnan ggcgnccaag tgggaatata acccctttnc ggcattcggg ccatgtggcc 360
gtaccnttaa tttggcctca atctggacta gngaaattat ccttggcgng ccaacaaaat 420
gactataact tggggcagtn ggtncttggt tcntttcaac canaagtnaa aaattaatcc 480
tccggaatca atcccatcct tttccgggct ctcttccaat tcttntttct ttntaaccat 540
caaaggggaa ccatttgtgg aaaangggnc aatttttnaa ncctcttggg gggggaggga 600
tttccgaaga aatcaattgg gcaatggtta ccattgccna aaaacgccan cttggnaaaa 660
gnaaacaaag caattggntg gccantttgn tccccaangg taacccttgg ttttccccga 720
atggcctggc cttaccttgg nttgggattt cttnggggng gtccctttgg aaccaaaaaa 780
aaacccctng ggnttcccaa tttnttnnaa acccccgna aattggcccn ttntttaccc 840
tttaccaaaa cctnggggtt ttttttttnaa aatgggggggg gggggaaaan ccccccccaaa 900
aaaggggggna aaaant 916

<210> 4555
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4555
gngtctccct ttntttgaca tcnnttggct ctcgctcttt ttgcaggatc ccatcgattc 60
gaattcggca cgagacctga gctagggttg cagcagaaat tgagttgcag cttgcccttg 120
tccagaccta ttttctgctt gcgtttttga aacaggaggt gcacgtacca cccaattatc 180
tatggcagca tgcatgtata ggccgaacta ttatcagctc tgatgtttca gagagaagac 240
ctcagaaacc gaaagaaaac caccaccctc ctattgtgtc tgaagtttca cgtgtgttta 300
tgaaatctaa tgggaaatgg atcacacgat ttctttaagg gaattaaaaa aaataaaaga 360
attacggctt ttacagcaac aatacgatta tcttatagga aaaaaaaaat cattgtaaag 420
tatcaagaca atacgagtaa atgaaaaggc tgttaaagta gatgacatca tgtgttagcc 480
tgttcctaat cccctagaat tgtaatgtgt gggatataaa ttantttta ttattctctt 540
aaaaatcaaa gatgatctct atcactttgc cacctgtttg atgtgcantg gaaactggtt 600
aagccagttg ttcatacttc gtttacaaat tattaagata ncttntttan ggatantttt 660
ggtaccatat ttgtgaaaat tttttgnaaa atgccttgnt aatgnggntt tttnaccncn 720
cnaagttatt ttgtttgcaa aacttnaatg gnccattttc cctttaanaa tnggtttnca 780
ccntattttn t 791

<210> 4556
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4556
ttntcnnaac cttcaactcc cgtgctnatg caagatccca tccnattcga annnggcacg 60
aganacnctt aantatacgc tacggtntgt gtgtggtgct nnatacncac catgttactt 120
aatcnctttg gtaccnnttn cnttttgntg gatccaaant gnaaaccgat gtntgntacc 180
ngnccnnatg gtnttaacac tttttaaant gananacatt ggatcttaaa accctaagct 240
attgcacanc ngcatttcac nnccgacgaa gcccggtatc ccctanacgn tggggcactt 300
tccntaaatt gaagntgnca atnntatgcc ggnntcnaga tataangtgc acncccaaaa 360
acgctttcng ncttgtaaac tcaacngcat agttangcnn gnncntgncc gcnccacatg 420
gtgaaacatt ttncttnacc aagantaaat gnccanggtg cntnttaggn acacttactt 480
tctccggnac atccaattaa cgntatttgc ccgntgctgt gcctgggnag tttttatttt 540
atttatttgg ggttgnaaaa gcagnancag agggagctca atctngtttg aaaccnacgn 600
agtgctncca ttgatacgta natnaatnaa ccgccnggng gnnttttttct ttttttggn 660
cctggaaaat gctgatnccc tttgacaana aaggnananc ccccctagcc nactaanngt 720
cncccattn tttngggaaa naaaggggat aaanaacttc ccccccnngg nggggagct 779

<210> 4557
<211> 1259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1259)
<223> n = A,T,C or G

<400> 4557
tttggaaagc cccttggca gggtgcncca nctgntgnac acccgaaggc ncntcccagt 60
ttgggttann ggacncgcng ggngggcngn aaggggggaga gcnaaacggg gganagngtn 120
ttntttgngn ggcaggagca gggaanaggg gggggggggn atnangngcg gncnaaccgg 180
ggaggaggng gggggnngca ggncgnacga cngacganag ngggcnanna gnnnnggccn 240
gcagngnagg gangnggatn agnggnncgg ncgtgnnnng gagnggacgc gngcngantg 300
gacgatggag gccnnagncc agaggcngnn gnnagnnagg ggnnatgang cgcgacgann 360
gagcacnggn gcnnaggcng cgnngccgna ngngcgggga gaagcggngn gagacnnnag 420
gcggnnccan gngannngng gaaacagngg nnngnngagn gcgggnancg gatgnnncgg 480
nnggannggg nanggggnca ggcgnnnagn nnagcgaggg ngnngngagn gnaggaggga 540
nnaagcgcgg ngggncaagg acgnggacga ngatntagng ngggggagga gggganncgcg 600
nnacggnnac gngtncgagn aaaangacga gggntngngc ngtngggagc ggcgagggnc 660
naataggaga angggnntaa ggngngcaga cnncnanngn naggnnanga cnaancagng 720
nngtgncatg gcaganggnc gncangnggg ncgggggcan cagagacgcg atgagnggnn 780
anagancggn gacaggggggg ggangcaaac gcgggngagc annccagncg ngnngggggn 840
antngngnnc nggtnaggag nganngannng nngcatgagn ataggnnnga ganagngang 900
nnnggggggaa agggaccnta acnnngngnn gngcgngncn acgnggcngn gggggganccc 960
anggnnncnn ggagncaagg nngnncngna ncnggggggng cnagntnggg ngggngtngn 1020
nngcgatnag ggnncggccc ggngngcggnn gcngnatcng aacggacagg cgcngnanna 1080
ggngggcgcn agangngntg gagngncacn gcggngggna ncgngngnnc angatggcga 1140
ggggacgggt cgcgggnctg acgganagag gcngcnacgn nngaggcgtg aaagaantgn 1200

nggncgnggg acnncnanga gcaanggcag gagggcncgg cgngcggnng cngnggccg 1259

<210> 4558
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 4558
gatntaannt tcaccttntg actntntgca ggatcccatc gattcgaatt cggcacgagg 60
aaagagatct gacctaacca actttntctt gccttaactt ccaaactgcc cttagtcatt 120
gatggggcat gggccaacnn cnatngggan anatctttnt tcntcntgna atnatactcc 180
cctttccaaa actaaatgtc cttgangnna taacggaang cctcccatng ggtgnacaac 240
cgggncggna antgggctcn cnctgtggca tagcanaang ntccccggnc gtngtggtgn 300
acgntcnann tatccgcnan actcgccatt gcnctagcgn cnncnacttt ctttttatnn 360
nctaacattn tccttncggg aangcggttt tnccggcntt aagctnttaa ggatggangg 420
ggttnggttt ccgnnctnna cnctataaaa ctctnttaac tncaacacng tncnccgtng 480
ggacccccctc ccantaaagn ggggactgnt tcacagngan ggacccnttt tttncncncn 540
ncctaatnga ttttcncccc accttaatac agttaggaac ccctttttcct tattccatac 600
aagaactttt ttttaaaaaa acttggganc ctcttatcta cgccttgggn gggtcacatc 660
ttgtnaatcc ccaacatttn ggggaggcta nngncgggaa atatncctta agcttcaaga 720
gttcaagacc agcctgggga aacacttgga aaccgcttct ntcnctttac aatttcctga 780
tgccgggatt tttcttttng cccttct 807

<210> 4559
<211> 1070
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1070)
<223> n = A,T,C or G

<400> 4559
tatctatcnt cnncatacaa gctacttgca ngatccctcn attcgttgaa actgaaagcc 60
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ctgtttcatc acatatacac atatatatac ttatgtgggt atataggtcc tggtctcatt 180
gacttaagga ttttaagtgg tggtattggc catatnctgt gggggggaaa gctnagaacc 240
tcaatannct taatnaaata ggtggctatc atcngttcat ttaactcaag cccagaaaca 300
ccaaagaagt caccctcaat ttcttcccgc ancccacaa tttnaatcta atcggccatt 360
ttctttaaca nggttcccat ttttcccaaa aaatatnaac caatggaggt cccatcctaa 420
tttnctgggn ttcttaacaa gtccantcaa cccentaagg cnttaaagnc caccttacct 480
ttcaagttag gcccctcttn cccaatttaa gggcctttaa gtttcaactt tcccaagccc 540
cccttccctt tccnaagtng gttggnantt cnacnaccaa gatnccctttg gccaaggggt 600
aaggttccaa ttttangaaa aaaccaatta naccttttnaa gggccccccct gggtccaaat 660
ttggccttct tggcntttna aaaaaaattt ttgggtgggg gnggggggcnt tttcccccaa 720
ttccaattgg ccctttaang aaaaatnaaa aaaaatccct nggccttttt tcnntanttt 780
atttttaaa aaaanccaat tgggggcttt tttgggggng ggccttttttt aaccaaccaa 840
aantttttaa agttcccttc cccatttaat tcccctcntt ttttcnttaa gccccctggn 900
attccttgga aaaggggcca ccccatttcc ccaaaggttt tttantngtn ggaaccaaaa 960
aaaccaagcc aggtnggaaa accattgggg gggggggttt anttgnaaaa ccnccttacc 1020

cgggaggggg aaaancccc aaaaaccccc cccnttttt tttngggccc 1070

<210> 4560
<211> 1321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1321)
<223> n = A,T,C or G

<400> 4560
acgnaccttc ancttccgnc ttttgcagga tccctcgatt cgaattcggc acgagctaat 60
gcactgcaca gcatttgcat tttgcagatg agtatcatct gggaaaatct gtctcaagat 120
ctggccctcc cacggganta tgttggaagt aaccaagcct tgcccttaga ngatgcaacc 180
aaaatatttt tgggtggatg gggtggtggg aaaaaattct tgccaaaaaa gaaagggtgg 240
atccctggga aaccaattat ttcttctttc aaggggggaaa gggaagcctt ggcctggtgg 300
ttttttnggg aaatggtgga aaaagaacca aaaaacctta tttgaaaagc cattggttgg 360
aatggaaaaa ggtttcctta ggaaaaaaaa cccattggaa aaantttcca agccccccct 420
tanttgaaaa aattccgcca nccttggggt tacccancct tgggggggaaa aaaaattgga 480
aaaagaaaaa ccttttnaaa cccttanccc atttaaaaaa aaaaatttag gnaanggggg 540
gaanccaagg ttnccaaaaa aaaaccnttt tccaaccaaa gggggggggg ggggaaaaaa 600
aattcccaaa aggtttttna aaaaaatttt nccaaanaaa ggccctttgg gggaantttt 660
ttaaaggaaa ttgggaattg gnccccccat tttttccttt aaagnaaagn aaaaaggntt 720
ttttngggcc tttttttttcc tttncccccna aaattgggcc nttcctttaa nttggccccc 780
ctttttttcc tttgggttaa aaaaaaaacc cttgggggcc caaaantttt tttgggggggg 840
gaaaaaggcc caatttccaa ccnttggggg naattaaaaa aaatttttta aattttgggn 900
aaaattcctt taantttttcc aaaggttccc aaaatttttc cccttgggaa ggggccnttt 960
tttnaaaaaa aaagncctttg ggggggaaaa ggaaaaaagg gttggnaaaa aaccttantt 1020
cnttccaatt ggnaaaagaa aaagntttta nttgncccag aaaaaaaaat tccnggggtn 1080
ggaaaacctt cnttttggc cttccttaaa agggcccncc cccgttantt aaaaancctt 1140
tgggaggttt tccaaaacct tttcccctgg gaattnaccc tcccctggaa tttttcttac 1200
cctggggggn accaagnaaa aaaaaaancc ccttgggnaa nggggncctt ttttnccena 1260
attaaaaaac ccggnggggtc caaaatttcc cccnttttt ttaaaaacnc ccccccccct 1320
t 1321

<210> 4561
<211> 1253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1253)
<223> n = A,T,C or G

<400> 4561
ttttntacat acttgcttnn tacatcncag cactttgggn nctttttctct ccgagtcnga 60
ccgtgtgtgt gtgtgtgtgc gcgcgcgcgg cgttctgann cttcggtctt tgttccggac 120
ccggnctccg ccgcagccag cccacatgtc gggngatcaa agaaagcaaa aaagacgggt 180
atggctttcc aaggccgccc ggcttttccc ttccncccgc ccaacccnca acttggnacc 240
ggccncccct tacccccncc caaacccccc ccccaaaatt ttccccccncc nggcccaacc 300
tttnggggggg ttcccccccna acccccccttt tccccccccg gggttaaang gggggggggnc 360
ccgtttccag gggggnaagg ggnaaagggg aaagcttaaa aaaaaaaagt tttgggggggg 420
ggnccaaacc gggggaaggg gggggggaaaa agccccaaaa ggcaaangaa aaaaaaggaa 480

```
aggggccnt tccnttgggt ggggttgggg gaaaaaattt ttccccccc ggggggngc      540
ccaaagattc ccccntttnn ggccccccc ccggcccaaa tgccccccc cnttttttt      600
tccccaancc ccccccggg ccgggaaacn ttttttttgg gggggaaaaa ttnccttgg     660
ccggnccntt tccccttttg gggggggngg ttaccngccn ccggaccggc ccccccggn     720
ccggaaaaaa aagaaacccc ttttcccccc ggaaagncct tttcntttna aaaaggttng    780
gggggtttnc cccngggaaa ttcnttattt aaattcccca aagggnaacc ccaaaggggg    840
gaaccaangg gnaaaaaatt ccccccccct ttttttnttt ttnccccaa aaanaaaacc     900
nttttttttt nccaaaaaac cccccggccc ctttttnttc cttttcctgg tttaanggg     960
tnccttncgg ggaaaaccna aaaaattccg aaagnccttg aacnttcccc cccgttttcc   1020
ttggcccaaa aggttccttg gggtaccccc ttgggggggg nttttttggt ttnttttnttn   1080
ggggnaaaac cttttcccct tttggggaaa gtnggggggnc cnttttnaaa ttggaacccg   1140
ggacctttt tccnttttttg naagggnaaa aaacttggcc aaanttttnt ttcaaaaaaa    1200
acccnaaaaa cctttggggt nnaaaaaaan gggggggggga aaaaaaaaaa ana          1253
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<210> 4562
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4562

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tataattaan ttgnannccn ttnaactctt gttctttttg caggatccca tcgattcgaa     60
ttcggcacga ggtgaccctt cctgcccttc ttgagcagct tgtganccan aagatgtgcc     120
tggagagaaa gcctcatttg gggaagtgcn gnattcgaag ttctttattt tgaaaatgga     180
naacaaccct tctnacaaat cctgtctgcc cttccccctt tncaactaga atatcanntc     240
cnctgaacat gaagtnatnc acatttcatg gaaaactggn tgatgntnaa naaatcactt     300
ganggcaaac tttgtccttc angctgtggn tctctgaatn gtagagccng canatcctcc     360
antgtatgga ctgngcctta cttgcccatt gaatgctttc tatacatnaa nacttgganc     420
tctttacaga tgacantnnc cagtgnggaa gataaaagan nagaaaagac cnaaantgcg     480
ggnttgccac tctttttttgc catcaccgtg gggactgcaa angccaatgt tggngctggc     540
aaaaagccga angantaaag gtgctgnant gatgttagct gtgnccactg nggatttttc     600
caanaacatt tntanctata aanttcaaag naaaanaaaa aaananactc gaggcctntt     660
aaaactatat tnagtcnttt tacctnatnc anacttgata anatacattg atgantttgg     720
gcaaacccac aactagaaat tttcccaana ggggggggna                           760
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<210> 4563
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(890)
<223> n = A,T,C or G

<400> 4563

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tttttnnntt taaantttgn aaaattnntt ttttttacca ncccctttac tccnggtttc     60
ctttttttttt nggccanggg naatcccccc natnccggaa tttnccggaa aattttcccg     120
gtttgggcnt nggtccggca tatataaaaa ccagngngag nccccccnact atggannttn     180
tnccctngaa tataaaaaca acaatccggn gggggggaacg gaagnagcnt ggcaattngg     240
natcgtaata aaaatacggt antcttgaag ccccattgga tggtcncaan gggctggtgt     300
ggaagaacct tanttnagca agaatcccta aaanggggca canaaccttt gnaaaggana     360
```

aggangttnt nttttncaaa aaaaaaccca nactttggat gggcaaactt tnaaataang 420
ggatgaacaa tggnccaggg cccacccctg ggcttaaatt ancaaaacnt tggcctntgn 480
aaagncccng ttncccttgg gggcttctct tttccttcna tttntggaac ccannacttg 540
atgtcnttnc aatcgnaact ggtttaatgg cccnattcct acaaccgcna aaacttggtt 600
cctngaantg tantctgcng nnanaaaaac ncctccnnan tgaantggcc anaaangtan 660
tgatcataca caaananaca ccttnaaatt ntaaccatga acgcgattat attatgnana 720
ganntcnttc ggnnganatt atgtnaggga gccagantnc tcatgctngg aatagngacc 780
nacaaaacnt gntcgaggga cttattgana ttaatatgga agatacanng ttcntntacc 840
anganntggc cacanagaac aatcnatnga ccgaaaaatc cggggngggn 890

<210> 4564
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4564
tttgaaaacc cnttttnttt naatcctttt ctttcaaatg gttctngttc tttttgcagg 60
atcccatcga ttcgccaatg gatgcaggna aaactgagat gggatttccc cacgttgccc 120
aggctggtct cctgagctca aagcaatcca gattgctggg attacagctg tgagccaccg 180
tgcctggctg agatgacttt taaaaaaaga cttctctaaa gtagaaggaa gggtggaatt 240
gtatgcacaa gaagaaaaaa acctggaaga aaaacatact aaagaggctg gagtgcaatg 300
gcgcgatctt ggctcaccgc aacctccgcc tcccgggttc aagtgattct cctgcctcag 360
cctcccaggt agctgggatt acaagcatgg gccaccacnc ctggctaatt ttgtattttt 420
agtagagacg gagtttctcc atgttggtca ggctggtctc gaactaccga cctcaggtga 480
tccacccacc tcggcctccc acagtgctgg gattacaagc atgagccacc gcgcccggcc 540
tncctgttcc agttttctat aatctgttca tattatattc tgggtatatg tgggtggtgt 600
gattatccat gtggtcttat tttcacattc tttgcattaa ctataatgtc ttaatgnttt 660
aagataaagt ttcattctac aaagatgtat tgtaccaata acctgggtat tcaggttacc 720
aatcttaaaa aaaacttant tcattttnaa aattaaacnt taaaatttnc caattccatt 780
tnaacattaa n 791

<210> 4565
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4565
ttcatttaat cttncccttt ggatctntnt gcaggatccc atcgattcgt aattatannc 60
cctggagtta tgcagctaat taaaggtcaa acgcataact ttaaagacgc cttttcagga 120
agagattcaa gtnttacgcg ggtgccactg gctttttatt atggaatgta tgcatatgct 180
ggctggtntt acctnaacta tgttactgaa gaagtagaaa accctgaaaa aaccattccc 240
cttgcnntat gtatatccat ggccattgtc accattggct atgtgctgac aaatgtgggc 300
tactttacga ccattaatgc tgaggagctg ctgntttcaa atgcanntgg cagtgacctt 360
ttctgagcgg ctactgggaa atttctcatt agcagatccg atctttgttg ccctntcctg 420
cttgggctcc atnaacnggg gtgtgtgcng ctgtctccag gttattctat gttgccgtct 480
ctgagagggt naccttccan aaatnctctc catgattcat gtccgcaagc acactnctct 540

acantggtnt tgtttgcacc ctttgacaat gataatgctc ttntttggga gacctcgaca 600
gtcttttnaa tttactcaag gttgccaggt ggctttttat tgggctggca attgctgggc 660
ttgatttatc ttngatncaa atgccnanat atgcatcggt ccctttcaaa ggtgcccctg 720
ttcatcccac ttttnttttg ncttnnnttt tttnnncnnn t 761

<210> 4566
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4566
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caggnatccc atcgattcgc caatggatgc agggaaaact gagatgggat ttncccacgt 120
tgcccaggct ggtctcctga gctcaaagca atccagattg ctgggattac agctgtgagc 180
caccgtgcct ggctgagatg acttttaaaa aaagacttct ctaaagtaga aggaagggtg 240
gaattgtatg cacaagaaga aaaaaacctg gaagaaaaac atactaaaga ggctggagtg 300
caatggcgcg atcttggctc accgcaacct ccgcctcccg ggttcaagtg attctcctgc 360
ctcagcctcc caggtagctg ggattacaag catgggccac cacgcctggc taattttgta 420
tttttagtag agacggagtt tctccatgtt ggtcaggctg gtctcgaact accgacctca 480
ggtgatccac ccacctcggc ctnccacagt gctgggatta caagcatgag ccaccgcgcc 540
cggcctccct gttcagtttt ctataatctg ntcatattat attctgggta tatgtgggtg 600
gtgtgattat ccatgtgggc ttattttcac attctttgca ttaactataa tgtacttaat 660
ggttttaaga taaagttcat tctacaaaga tgtatgtnca atacctggtn tcaggtaaca 720
atctttaaaa aaaacttaat tcattttaaa aataaacatt aaaattncca ntccaattta 780
aacatnt 787

<210> 4567
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4567
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caggnatccc atcgattcgc caatggatgc agggaaaact gagatgggat ttncccacgt 120
tgcccaggct ggtctcctga gctcaaagca atccagattg ctgggattac agctgtgagc 180
caccgtgcct ggctgagatg acttttaaaa aaagacttct ctaaagtaga aggaagggtg 240
gaattgtatg cacaagaaga aaaaaacctg gaagaaaaac atactaaaga ggctggagtg 300
caatggcgcg atcttggctc accgcaacct ccgcctcccg ggttcaagtg attctcctgc 360
ctcagcctcc caggtagctg ggattacaag catgggccac cacgcctggc taattttgta 420
tttttagtag agacggagtt tctccatgtt ggtcaggctg gtctcgaact accgacctca 480
ggtgatccac ccacctcggc ctnccacagt gctgggatta caagcatgag ccaccgcgcc 540
cggcctccct gttcagtttt ctataatctg ntcatattat attctgggta tatgtgggtg 600
gtgtgattat ccatgtgggc ttattttcac attctttgca ttaactataa tgtacttaat 660
ggttttaaga taaagttcat tctacaaaga tgtatgtnca atacctggtn tcaggtaaca 720
atctttaaaa aaaacttaat tcattttaaa aataaacatt aaaattncca ntccaattta 780
aacatnt 787

<210> 4568
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 4568
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ttcggcacga ggaaggacaa aaatatggct atctgantag atgcagaaga ggcatttgac 120
aaaatctaaa atattaagta aagaagatta tattagtcca ttctgacatt actataaaga 180
actgtangag agcagcccca gtgcttatag ataaaactcc catctnccta ggacagagca 240
cctgggggga atgggcggct ctgggtgcag cttcngcaga cttaaatgtt cctgcctgcc 300
agctcttgaa gagagcagca gatcccccag cacagcgctc gagctctgct aagggatgga 360
ctgcctcctc aagtgggtcc ctgaccctca tgcctcctga ctgggagaca cctcccagca 420
agggttgaca gacacctcat acangaagag ctccgggtgg catctgccan gtgcccctct 480
gggacgaact tccanangaa ggaacangta gcaatctttg ctgttctgca gcctccgctg 540
gtgataccta ngcaaacagg gtctggagtg gacctccagc aaactagagc agaccttcan 600
cagangggcc tgactgttag aaggaaaact aatgaacaga aaggaatagc atcaacatca 660
acaaaaagga tgtccaccaa gagaccccat cctaaggtca cccaacatca aagaacaaag 720
atngagaaaa tccncgaagt ttgaaaaggg ggaaaagggg ga 762

<210> 4569
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4569
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cgttcgagtg caagctcccc atctttcgaa agtttccatg gcaatacanc taactgaaga 120
actaaaagcc agtgatgtac ttgccaggtt tctcagccaa gaaagtgggg ttgcccagac 180
tctcaagaaa ggagaagttt ttttgtatga aattggagga aatattgggg aacgctgcct 240
tgatgatgac acttacatga aggatttata tcagcttaac ccaaatgctg agtgggttat 300
aaagtcaaag ccattgtaga agacttaaca agctgcagat aaccatgtgg acttctgtca 360
taattcttgc tgagtcaaga gtgtaaataa aagaaatggc aggactcata ttattcantt 420
gtacccaagt atttaaaaat gactctctta agccttaaaa agtcatagat ntgtgctgct 480
gccagaatta tattaattat tattaatggt attattagaa aaaaaatttc tggagtgaga 540
agtaaaaagg cttaattagg ttgtgggcca ntttcatatg ctctggtgaa atgtgtccca 600
natgtnacat agttttttt ttaatatgtg gaaatgtctt ctcttcccat tcntttctcc 660
ctaaaaatcn tatattnctg gaaatataat gcctcttttt aanctcttnt taccttnnta 720
acattttacc ccttttccca gttanggntt gctttttgn ccaaaaagna tanccaaatt 780
ccnnc 785

<210> 4570
<211> 986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(986)
<223> n = A,T,C or G

<400> 4570
ccgnnnttttt tngnnnnttt ttgcaanttn ttggaaaaan ccccctttt taccaaanan 60
cctcnccttt gggtttgctt ttttttttngn ccaggggnaa tccccccccat gccggnattt 120
accgnnaaat ttnccggggg cccaccggaa ggggnnaaaa tgggggggccc caaaaaagnt 180
ttnatttaaa attttggggg tccnttttttc caaagnaatn ttttttttttc cnatttaatn 240
gggggggacca aagggaaaaa acctggcacc cccnaccgga aaatttttat tnaaaaaaaa 300
tcccccatgg gttgggggaa aaaaagggaa atttggaatc ccccanaaaa tccaaatggt 360
taacctttcc aaanaaaaaa atgggtaaga aaaaactttt attaaaaggg aagnaannat 420
ggnggcttta ttcttcttcg gatggaaaac tccantattt ttgggtggta nactctattt 480
aaacaatttc ggtcataaac acaaagacaa accatggggt caaaatgtgt cctttgcttn 540
taaattctgc cttcatttac ttgaatgacc tcagtgctta ggcagtggcc tgtgttttag 600
acctggtgat gacagctccc ctcacctang agctgagcac cccggccatc ttggtgacca 660
cagaaccaag gncacaggct tcanctggta cgccctgggg caggggagaa aattgtgctt 720
gcattcccaa gtctgctcca cctnctggtg aaggtctgtc gggcctggtc ctgtccttgg 780
agccaccagc atcctcagac aaagaatcta gacggngttg ccaatttatt aacagcaaat 840
aaccaattaa aatggagact attaaatact ttattttccc ncttanctna aaaancnaaa 900
ntttcccccg ncnannggng gggcanacct tanagnncca cnaantnngg nngcnggngg 960
gnanggnnnn naaaaaaaat nntcct 986

<210> 4571
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4571
ccgttnattt cgaantttgn aancccttta caanactact tgtgtgcttg ttgtggcagg 60
gnaatcccat acggatttcg gggaaattca aaaaaaccca aagnttaccc caggaaaatt 120
aatgggtggt tttntcttta aagnggtana aaaattggga aggggaaacc tgggtgggaa 180
aaaaaaaatt aaggaaaaag ggnggagggg ggggtaaaaa tccaattttc cnttaaaatc 240
cttaaaattt aacccctaa aagccattaa gnaatacctt ggggttaaaa taatcctttg 300
gggtattaat ggnttttttt cctggggtct tttggttttt angtctggca tgngattggt 360
tttaaccatc cttntattag ctctctnaat gctgcctatg gttatatttc catgntcnta 420
tattntactn ccatgtaata tatattatnc atattaccta tattgaaang gaaatgctta 480
tatattcatg tcaangtaat gntatcctct nctgntatga ttattatttg cctnaacatn 540
ttgattgatt tatntaaccc tgtgctanat tgggaactac ttctctncta tagaccttaa 600
nannaacatn gctttatcaa gattttattc agtgatattt taaatgattc tgcctgtagg 660
cttgccagac aaattagtgt ccaataatct aatgaatgtt gnaagtcatg tnggattatg 720
aattccatta ttttactaat ttacttgaaa aacatgattc aaaanattgt ttttgttgtt 780
tgggttaaaa aaaaaatnta aacc 804

<210> 4572
<211> 793
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4572
gtgaatcctt ttcnaatngc ttggctactc gctctttctg cangatccca tcgattcgaa 60
ttcggcacga gggcagctag agtcaggaaa atgaccctca tatgctnttn atctttgttt 120
cagttgtctg tcagggttga attaagaagc tactggttta ttcccaattg ttgatgcctt 180
taggtatgtt ggaatctttt tttttgccta ggaggggcca gtngaaaatc tgtgactcaa 240
gangcagtga acagaatact gntttctggg gaaaaattgg ttggctactt gatgttaatt 300
atggnacagt aacaggaaaa ggttgtgtnt gtgtttttaa gtaatgtctt tattctgctt 360
ttttgctgct ataagagttt tctgaaattt atattttaaa cttttcatgc actttactgt 420
ttctagtctc naaatgtgat attttnaatc aacaagaaat tttccattat gngaatgaaa 480
ttttaaaaga caatagccta tatttgtgtc tcactaatat ataaagtata ggtcaaattt 540
naattattta attagtttta aatatctcaa tttgtctnct ctttcaaacc tgacatnttc 600
ngctggtttn ttaagtccta aaatgatgca ttttaccttt nggncaattt caattgccta 660
antttcnntn ccatangtna aattaaannc anggcttatt attaangggt aatnattttc 720
ccccannagg ggtaaatttt taatgggnga ncaaagngtn gntggggatt gangtctttt 780
catnccangn ggg 793

<210> 4573
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 4573
annatcnctt ttnattcnat cagctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gtattcttct tctactggag aaggtaccga aaaagaattt gatcctctga 120
ttgcctaggg ttttgagaca tgagaaataa tgtctttgat ctggttttga gaaattattg 180
catattttat tttaagtgct tgctgcctct gcctttcccc ttttgctcct caaatatata 240
aagtaagtag cctgcctaca ggaggactgt taaaaatcat atcactagat taaatagaat 300
taaaaaagan acaggaagat tgaagatgta gnttaatata tgtatcatta ataatagaat 360
aaatacaaga acataatggg tgagaaattt atttcttaat aaaaatttct gagactagac 420
ctttcaacat ttagttatac atactttaat aaaaatctat catagtaaat ttataatttt 480
tggttgagta tgtgaataat ccttctgcgc attattggcc tgttataaat ctttcaatga 540
attgtgggtt ggagttaaat tcatattgtg ctgaatttac aaaatttaac agtttgctnt 600
aaacgtttta aaaattntct aacttagcac caaatccccc catacctttg tgtgtgtgtg 660
tgtgtgtgtg tgtgtgtatg cctgtggana aaaagtccng agatcttatt tctcatttaa 720
aaaangttag caaaaaaaaa aaatttttt ttttnc 756

<210> 4574
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

<400> 4574

atatncntna taanccttte aactacttgt tctttttgca ggatcccatc gattcgcaag 60
agcaagggtg gaggggggaca gattgtntng tccnttaaat gtgtgttgac acacatgggc 120
ttcgggttag ctggcctgac atggagatag antgccaatg ttcccaagcc cacagaatta 180
tggaggcctc acccncagta ttcacagctc tcaactggcc tttnanaatg gaaacctttt 240
ctgccntgga tatggcgctt cttctgggag aggagcanag ccacagagag gtaggaagtt 300
gaggcatagc aaagggaang cttcaganct taagcccngn tcatctcata tgtgttttct 360
angcctgngg ctgaaangaa gaggagtggg gcancctggg acggnaactg cctctntggg 420
ctccccactc ccatggaggg gctncataan ctttgctcct gggctgnatc ttganaagng 480
ggcanggtct tcccaccant ggcanggtgt gcagttgtgg tcccaagcct tggagggaat 540
ggggaatggg ctggcaccct gctcaaggaa agcanaagca cacangtgcc ccaacagggg 600
ancttcattg cccccaatan ttttaaaaaa ngcaacccat cacttaaggc ttgggtgccc 660
ttttcggnaa aaactaccaa acttggaanc ccctcccggc tttaangccc aacnaatttt 720
nccctggggn acnttccctt gggacccccc aagggntttc ctttaaccag gccaaaaaaa 780
aaaaaaaaaa ncccncccccc n 801

<210> 4575
<211> 895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(895)
<223> n = A,T,C or G

<400> 4575
cnttnttcna nttatccttc aactcttgtt ctttttgcag gatcccatcg attcgcagag 60
gctgaggtgg gaggatctct tgagcccagg aggttgaggc tgcaatgagt tgtgattgca 120
ccagngtact ctancctaga cancagagga ataacctgtn tcncacgata angannttca 180
tcanttannn ntnataanaa ttctntcagt gncnngaang nngacacngg anctccctna 240
ncangangga catnncnnca nggccatntt acgnntcang tgccatacat aaagngnatg 300
ntggnttgag nttacnacca cactacngaa anatttgcna nnanncttat gnnnnatnct 360
ttaatnttnt ccatgtnntg cttccacgca ttcagncnat ngtgtgggtc tnttaaatgn 420
ctgnctnatt tcttactcaa anggattacn ctanatncaa caattntttg aaatggggng 480
cttaatcgat tttaatgnga ggnnatttta cctnatggtc ttgganggcc acctggnttc 540
cttaaagtgg ccttttgatn nttttaaatt ccaaanttag gcccntttt aaaataaggt 600
cccaatggna aaaaantttc cttnnaactt ttaaacgttn nccttaattt ttcttaaagc 660
ccccctnaat ttnttcaccc cngaagggga anggnaaaat ttggggnngg cccatttttt 720
attttngggg aaacctggcc aagngggatt taanatcggg ggggaatccc ccncctttt 780
gggaccctgg agccaatttt ggcntttaac cnaaggtntt tatccgcccc acttttctcc 840
aaaaannnta ccccccacca ngtnttccca aancctgggg gttttttttt tntnn 895

<210> 4576
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4576
tatcnnttat tctntaaccc ttgttctttt tgcaggatcc ctcgattcgn tnatgtatna 60
actantcnna tatgttttnt ancatnctta ntatccttgc nngcattatg nggattcagg 120
gtcaacttnt cagactgnga gcctgagagt tnntctctaa gaggctccac acctttnttg 180

tctnttagat cgnggccaaa ntgagatgaa aactaactct tgagaaanaa aaaccancat 240
gcnttaactg atacaccgtg ttgncttgtt catncacagn nnatncagcg antaccaaca 300
tccacgntat gaaatgncnc cctangtntc ttattctagc aactgccngg caccacaacc 360
atggtaacnt tggggagacn naggtctttc gcttanagga tgacacgcca agtttaacga 420
cgcagttcct ctggaaagat gacntgtgaa taacagaccn caagggttgc ctctcgaccc 480
agcctgttca ngantcacaa gctctttaat gtcatgtaac nttccatatc atnttngagn 540
ggnncctgtg ngncacaccc tgtgaagngt gtatatgcnt cctncagtgc tggntgctta 600
attcttctgc attnaaatgt cctgaccatc ttgaaaacat cantganana ntcctgtgca 660
tgannggatn ctaagggcta tntatgatgc ntttttaaac tcaatgggng tttnncnaa 719

<210> 4577
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 4577
gagcccagaa tgaacatgcg gnccccccaa gttatcntgt gatcccaggg tttcaagata 60
gacttttgag ttttttcacag tctgtcttan ctcagcanga taacttggga cttcagaaac 120
agttggatct acaaagagaa gttctgcatt atagccagaa agcccaggaa aaattgcttg 180
tacagagaca aacagcattg cagcagcaga tacagaaaca tgaagagact ttgaaggatt 240
tctttaaaga cagtcagata agtaagccca cagttgaaaa tgatttaaaa acccanaaga 300
tggggcagct canagactgg tttcctaata cacaagacct agcnggaaat gatcaagaaa 360
atattaggca tgcanatagg aacaactctg atgataatca ttnggnttca gaagatacta 420
gtgccangct aagttggtga gcatctggga gaaagatctg gggagaagat cctncaaagc 480
cacctgtagc aaaagtcaaa tgtggtttgg accttaaaac ccngcattga acttaagtgc 540
ttttccaagg aagttanaag ttnccagcan attnggcagg aactttctat accttaggtn 600
aaacccaggg tattttntgg aagaacnnag tccccttgn naagtcttca attatatccc 660
cagtaaccaa nggtttnttt tngngaaccc cantggcccc ttgatcccgn ttcaaantgg 720
cttttc 726

<210> 4578
<211> 1071
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1071)
<223> n = A,T,C or G

<400> 4578
tttttnaaan aattncccaa tnnttttttgg tnaaaatttt tccnccnaan ttttccaagn 60
aacccttaac cttttgggtt tttgcctttt ttttttgggn cnaaggggnn aatccccccc 120
aattcccggg aattttnccc ggccnttcct tgggtttggg gggnaaggna atttgggggg 180
gggnaagggg gggggggggg ccccccttaat gggccnnntt tcaaattggg ccctttttttn 240
ctttgggtta aagnttgggc ccaaaaaaac ccccccccttt aaaaaccccc attgggttgg 300
cccccaagcc caaccttaaa gcctttaagg tngggaagga atccttaaac aaaggaatcc 360
aatccggncc cttccggccc cttcaatttt aaagtcaaaa anggcnttca aacctttctt 420
ggctttccac aaangtcaat ctttttttgg ttcacttctt ctggtnaaaa taaatcaaac 480
tcacgccctc aaagttcttg ttgtgggaag tttgagggtg acaaatattt caacaagaaa 540
tttgatgccc atatgggaaa atcccaagct agctttttgt ancaagttnc aaaaatcaaa 600

tatttcaaaa cagaatgaga agcttactat cgtggtggga agtacaaggc tttggtgtta 660
aacaatcctg agatggaatt tcatctcttc ctaaattaga agctgcanaa gacctagtca 720
aagtctgaac ccttatgagc tttcgtttcc tcagctgtaa gtggaactaa taacactgaa 780
tttgatgaag ttggttatga aggattaaat tggacaaaat gggaagtgtg tagcatctat 840
ggcacataga tgtaaaatta aataaagaat gggacanggt gctattnaaa aatatttacc 900
ttggcccggg gtggcaatgg gcntcatgcc tgtaaatccc aaaccagttt tggggaangg 960
cccaaaggcn gggtgggaat caacnttgag gggcccaagg naagttcaaa gaaccagctt 1020
tgggnccacc cattgggntg gaaaaccttc aaaattcccc ttttcccctt n 1071

<210> 4579
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1052)
<223> n = A,T,C or G

<400> 4579
tnttcatcag ctcttgtttt atgcggaccc tcgattcgaa ttcggcacga ggctttatgt 60
atcattaaat ttttctcata gttcagaaaa aatgtgccaa agggaaacta ttggctcctc 120
cttcaaaaac agtcttaatt aactttcatt atttanccgg attaaaacta nccagaagca 180
gggntcangg ggaaaattaa aatggatatn ggacccctaa attgtatcat tctgagttga 240
ttgngtgggt tattcattct ggaaacatgt tgatacttac agtcaaccac tgnttttga 300
taagtgatat tgattaaggt tgaatcttct ttgtaaataa gtatttaccc agttagcaaa 360
agtctgtgtt ttcaagaatt accagtgagc accaagaggg tgttcattaa aaatgggga 420
aattgaagtn cccacttccg gnnaagaaag ttggctttaa aaccttggac cacttggttt 480
ggaacaattt ttgggggcct tgggaatnaa aaaacccccc tggttggggn gggggggttt 540
ccttggttgg ccttgntggc cantttggc caagggnaat tggggttgna aagnccaaan 600
cccggttncc cccnttcntt cnaattggtt ggnaaccaaa ccccccccaac caaaggtttt 660
antttgcccc ccggggaaat gggttttggc ccccaaggaa attgnccccc ccccttaaa 720
gggggggna accaaagaaa agttccaaaa acccccccc cnaaaccttg gaaaggggaa 780
cccccacctt gggttnccc ttaaccaagg naaagntcca aggggaaaaa aataatttgg 840
gtaanggggg aaggaaaaaa aaaaaantta aacccaaccc aacccaaagg ggcccttggt 900
gggttaaatg ggtttaaaat taggnatgga naaattantt gggaaatant ggtattantt 960
naaatgggtt taaaaaaatt ggtacccttt gaatcaaaag gtacctttt ttattaaaac 1020
nttggnccct ttttttanng gnaaannttt tt 1052

<210> 4580
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4580
ttaatanatc cttgtattgg cngatccatc gattcgggcg aaaatcgaaa tcaagttatc 60
cgatattcca gaaggcaaga acatggcttt caaatggaga ggcaaacccc tgtttgtgcg 120
tcatagaacc cagaaggaaa ttgagcagga agctgcagtt gaattatcac agttgaggga 180
cccacagcat gatctagatc gagtaaagaa acctatcang ataacccatt caggtttctt 240
tactcgatct agatcatgta aagaaacctg aatgggttat cctgataggt gtttgcactc 300
atcttggctg tgtacccatt gcaaatgcag gagattttgg tggttattac tgcccttgcc 360

atgggtcaca ctatgatgca tctggcagga tcagattggg tcctgctcct ctcaaccttg 420
aagtccccac gtatgagttc accagtgacg atatggtgat tgttggttaa gagacttgga 480
ctcaagtcnt aggcttcttt cagtctttat gtcacctnag gagacttatt tgagangaac 540
cttctgtact tgaagttgat ttganatatg taagaattga tgatgtattt gcaancatta 600
atgtgaataa attgaattta atggntgaat actttcaggc attcacttaa taaagacact 660
ggttaaccac tgntatgctc aatcataccc nctaaaaggt acaaatggcc tttttaccta 720
atnctaattn aaaaattncc ngactggngg taaaaaaaaa a 761

<210> 4581
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 4581
nttnnnnant acnatnncan gcctntgtac tgcgangatc ccatcgattc gaattcggca 60
cgaggnaaag ccatctttgc attgatcctc atccgccttt ttgctcgccg cagccgcctn 120
cgncgcgcgc cttctncgcc gccgcggact ccggcagctt tatcgccaga gtccctgaac 180
tctcgctttc tttttaatcc cctgcatcgg atcaccggcg tgccccacca tgtcagacgc 240
agccgtagac accagctccg aaatcaccac caangactta aaggagaana aggaagttgt 300
ggaagaggca gaaaatggaa nagacgcccc tgctaacggg aatgctaatg aggaaaatgg 360
ggagcaggac gctgacaatn acgtagacga agaanaggaa ganggtgggg angaaganga 420
ggaggaanaa gaaggtgatg gtgaggaaga ggatggagat gaagatgatg aagctgagnc 480
agctaccggc aagccggcng ctgaagatga tgaggatgac gatgtcgata ccaataanca 540
gacnaccgac naggatgact agacagcntn naacgaaaag ntaaactaaa aaaaaaagcc 600
gcttnaccta tncaccctnc actgccgtct canaatctaa accttggncc cctttnaata 660
anaaaaggcc cgnccggnca acngtgggcc antgccaccc cgaagatgan acncgctttt 720
caacacccaa cccaaacctt gaggaatttg gaacaagggg atggaaaaaa gaacccnnnt 780

<210> 4582
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 4582
aanaatcctn cctcccgttt nnattcntat acaagctact tgttcttttt gcaggatccc 60
atcgattcga attcggcacg aggccttgag ggaattanac agattttctg ttttgaatag 120
ccaacacatg tttgaagtac tagctgccat gaatcaccga tctcttatac tcctggatga 180
atgcagtaag gnggtcctag ataatatcca tgggtgtcct ttaagaataa tgatcaacat 240
attgcagtcc tgcaaagacc tccagtacca taatttggat ctcttcaagg gacttgcaga 300
ttatgtggct gcaactttcg acatctggaa gttcagaaaa gttcttttta tcctcatttt 360
atttgaaaac cttggctttc gacctgttgg tttaatggac ctgtttatga agagaatagt 420
agaggatcct gaatccctaa acatgaaaaa cattctatct attcttcata cttactcttc 480
tctcaatcat gtctacaaat gccagaacaa agaacagttc gtggaagtta tggctagtgc 540
tctgactggt tatcttcaca ctatttcttc tgaaaactta ttggatgcag tatattcatt 600
ttgcttgatg aattactttc cctggctnct tttaatcagc ttctgcaaaa agacatcatc 660
agtgagctgc tgacatcaga tgacatgaag aatgcttnca agctgcatct tttggatact 720

gtctaaaact tgatgatacc ttggggnncc cctttn 756

<210> 4583
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 4583
cttnttacat ctctctcgtt ttattcgata ccnctacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag gagaacctaa caaatgaatg tggtgggtaa ggaagagaaa 120
gaagtnnaga tgaaatttcc actctgctgg ggaaactagg tagatagatg atcatgaaga 180
atctgaggaa gagcagaagt cgtacaggta agaatgaatg cattcattaa tttattcagc 240
aaaactgcct gaagaatacc atgtgcagca ctgcgggaca aaacagggct tgcattccca 300
ggctgtnctc ttgtgaggac aacangaagg aagttgagaa acacacaaga acaatgctaa 360
gatggggaaa ctccatacgc tgcgggagca catacagaca aagtccaggt agggctcccg 420
gagaaagtga catttctagt gattcttcaa gtatgagata gtcatccacg caaagagatg 480
gtagaaaagt gttttaagca aaacaacaaa atgtgcatag gctcagaggc ctatctgatt 540
ttctatggca ngctgggctt tcatcggcag anaggatggt cttantgaan gaagctttgt 600
tggttttgtt ttcgtttcgt ttgtttaaat ggtcatacaa agtttttatt ggctaccttg 660
cttcaagaaa aactgggcca atgatgaggt gatcatttct attaatagtt tcattacngt 720
cctgtgtcat tggggttaac ccaaaaaaat t 751

<210> 4584
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4584
aggancnntn aactcctgcc agtanagaan acaagctact ngnnctttt gcangatccc 60
atcgattcga attcggcacg aggtttngcc ttgtnggcca gactagtttt gaattcctag 120
cttcaagtga tccacctgcc tcgacctnac catcctagat tgtaaacctt gaaattttct 180
agagctgnct cccagtgacn ttaacttact gngtggatct gccttgctgc cctnactttt 240
catantctca ccccgncctc accacttcct tgncttcnnn tgnactggct tgtgtttaca 300
acatnggatt aacagctgna aggtcagcaa tgaattccca aatangcatt cagcacctat 360
tttcagccct tcttaatttt tctgngacat tcgtaccttt ntaaagntct tttcttggnt 420
ctgatgacct gagatatctt gattttccta cctcattggn atcctcaact ttcttcctct 480
ggctttgcca tnttgntcct ntctcctcgt attcattggg ggncccatct gccctctggg 540
aaagttcaac ananggtntc natacctact ccgcgnntnc aanggcccgc ctaatgaata 600
taaatgctcc anggcaccaa ancacaattc ntttacaatg caatccannc ccttctcctg 660
acttttcttg gcaattntac taacctaact cntggttggc ttcnaaaact ggntnaaaat 720
ggaanctacc tgctacccca aantggggaa agggccc 757

<210> 4585
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4585
ttatccnnta ccnaannaac ccttgcaaan ccgcgnccng ncggagacnc tagaggacnc 60
ccngntaccn anttnaatgg gcacnatagg gancctttna ccgatgangt gggcgccggt 120
ntacacccna tntactgtga ntatatngnn ttgtnncncg gnggcatcac agcattctnn 180
tcnactattt cggggccaaa ntgagacgtg gaactgannc cctcttacta caacacaact 240
tnnattcacn ncatcnangt cnntngccan agnngagggn gcatgaaaca ctnatcnnan 300
gattnncnat atganaccac gcggtaangt ttctgnngct nngacnnnac aggcnctcnt 360
tcaagtgctt ncaccagcag tngaagnnng gtgncccgcc tnctccgggn nggtgacnan 420
tccnncaatn ngnacacggg ttncctgtnn ntacnaganc actnacttca tgccagaacc 480
ngcatnnang nnntnatgnc gactctgtnc cttgttcacn atgtactaan ggcttntttt 540
acttgtcgnn gncncgtggg aacaatagtc ttnantntag gggataccnt tngtgnaaat 600
ancanccnat cccananntg aancntaacn tntccgggcc ttnannccan tccgggttaa 660
tnagcggaat ttgntggnng cactntnncc ccncacctag ttncaacgag ganctacccg 720
gggnttannc ccaggccttt cccagggctg aattncnaag gggggcttnt ggtaanncna 780
agggaggttt tccaaaactt cgatnnnggg gggngnaacc ccccn 825

<210> 4586
<211> 1546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1546)
<223> n = A,T,C or G

<400> 4586
ttttnggggg naatncanac ggnggganaa canccccttt ttttgggggg anaaaanccc 60
cccgcnnatn tntagcgnca gcanctcnac agtannnggt nngagcacat nnatncgagg 120
gagngnnntt gantntnncn cnctacgnag ntacntnagn acagngcacn ntnagntttg 180
tgnnnccgnt tttttttatg ncataagccn nccgcngana tacaatntgg cgcagacgnn 240
naggtgcggc ggnnnanagt gnccagnann aggcgcnggg gngcancagn cgcnagnanc 300
gcccanncnc cnnctannag nganancgna tcggnncgnn nagaggcant ngtcanncgn 360
cgcgagnnnn agnnnnnnnt nnncgangcc gacgaanana gnnaggngnc cnncnnnnag 420
ngnngnagnc anaaannnan tnncncaaaa naggnagnna gagnntgnna tanntgcgcn 480
cnngtganta nccnaagnnc nacntccncg gnncccgnnn ngancaggcn ncagaaggng 540
cccnanncnt nnataanana ctncnnnnct nacanaaggn acnnnnncng cacnntgnga 600
gaagangccn cngnnaggna cacccggann gnnnananaa agnccgggag canccaacng 660
nantncacnt cgnccncgag natgannngn nncngcnnat ntcnccnncn aacagcnntn 720
ncngactgaa gngtcngnna gccgataatn gaacngcnnc ntactgcnag ccgantgnnc 780
cccgcgatnn cgctanatnc gtntnnangc gnntcagngc gcnnnctcgn ncgnactnnc 840
catcacgcgc ntacantnat naccgcgang cgcgnangcg ccangnnnng canacacgac 900
ancgnngtnc acncgcgnnn gcgangganc cgncncgatn ganacgagag ctacangagt 960
atagcgacgt catancgnga gnganatgac gantgactnt agngcgnacn ncnnnngngc 1020
tncgacncga cactntgagn catcctngan nncgnnagcg antcntcgtg anacanacgc 1080
gcnantncnc acgngagann aganggcang cacgcnatcg ncgcagctac gancgnngat 1140
gagnnntngg angcgacgcn cgcntgcagc gcangngacg gncntgntgn gcgtngtgcn 1200
cnantangaa ncncagcgtt anancgngat gaaggannta tagacagnac cnactggcga 1260
cnaagcaaag cangatagac tgtgacgcat gacagacggt ngagggtnng atcgnncaca 1320
gcacgcgcgg ccacanacgt acnnnantag catcagannc nacagaacnc gacagannac 1380
agacanactt gcatngngng acgananaat antcncncca cgcacaganc agacgagtac 1440

gcatgagcgt ngngcnngtg annnananat gnagaggcan acnnagntnt nnanaancgc 1500
tgtnannnta cncagcgnnn gcaganngng cgcncacngn ngcnnt 1546

<210> 4587
<211> 1003
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1003)
<223> n = A,T,C or G

<400> 4587
ttttttgaa acctttnnnn ntngaatacc nanacaaact ctgnntgtct nngcgggatc 60
ccntcaagtc cnatncggcn cgagcncanc tttntnnann tgtcgcgtct gagcccatga 120
gncacgacnn cnttcnccgg cgcctgnatt gncatntctc ccaaatacgt ggctnntccn 180
cantnngaat natcgnnatt tttagtgcca gannattggc nataatgtnc nccntgagan 240
aaannctnct gncatgngaa accatcttna tacttgncgt nncnaaatnc attgtgannt 300
ntgaagggga acgggcnctn nnaaagngat gaatttcnna taacttnacn ggttnatnan 360
gaatgatttt gcncacancc ggaaaatcac cccactnntt tgnttcaaga ntgggcccct 420
aacgggaggg gtantagagg caaaccntct ttgcgggctn ttntatttcc tttnttcaaa 480
caccaatntt tgntgaanaa taacagtgtt ttnaattnaa ttaccaccgc ntncantgng 540
attntttgnc ccattncaaa ggntgggtca attcccctaa aanaattggg aaaanantaa 600
tttnccattt cnttttttccn ttnaaangaa accntnccnt gnanttaaaa aaanattctn 660
tntnnttccn caaatttttt nnttttnaaa ccnctnancg gctaaccagg nccgnttttc 720
ggtgnccctn tttattgttg gccanntaaa ncccctnttt aaaaaaattg gccttnaaaa 780
aatccttacc atttttnnna ancctaaaaa nggattaaac tttcaaancc gtnaantaaa 840
tttnnggggg ttcatntnnc tttgaactcc ccctgcntcc cntanaattn gaattgncac 900
attggtngna nccaaantat ggatntttca agannaanac tgggcttnca aatgnctttt 960
ttcancnaat nanntnatat tgccattttg nggccccccc cnt 1003

<210> 4588
<211> 997
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(997)
<223> n = A,T,C or G

<400> 4588
taganncctc tnctcttgaa gcccntccca ncnactcgaa ttcggcacga gcaaaaaaaa 60
ggcttttccc tgatttccag aatgtactgg gtggtgtcca tctggtcttg ggatggtgta 120
agcataagga tttattgaat gaaagtatga aagtgtggtt tttatttgaa agtcaaatat 180
ttggcagntg gtgttcattt attctataaa ctttcaaaac agatgacaag ttttaaggaa 240
atgggggccc taataccaaa tttggttgaa ttaaatgaaa ttcccaagat tcttttctaa 300
ccttttttctt ttttaaaaga caggggtctc acttctggtt gccccaggct gggaagtccc 360
aatgggtgcc aatccttggg caagactttg ccctgctaag ttttccctta aggctaaatg 420
gttaaattaa gtggggtttt tgtggaaatt tcntaagaag ccccatttaa agaagggtaa 480
gtttttttg ggaattaaac ctggtttttt ccattcttac ctttaatgga agcctggacc 540
tggtaagttt cnattcccac ctttaatgga aacctggnaa cctggttttt tccaatcccc 600
tccttttaat ggaanccctg gaacctgggt aaattggggg gaaaaaaaat ggggtgggtg 660
gtnggtncaa anaaaaaagg tttttaangg naatttgggg aaaagaaaaa attttccggg 720
ccttggtggc cnttttttccc caagggttaa accttaaaaa aacccaaaaa gaaaacctgg 780

gttnggnccc tttggggtgg ccccctttgg ntttngggaa aattcctttt tcccaagaaa 840
tccantggaa tncaagnaag aaaaaaaatn ggggtggcnt accaccttcc aacaattttt 900
taaaaaaaaa tggaccacnt ggaccncccc ctggaccatt aaaccttccc tttaaaattt 960
ancctaatng ggggaaaaat ttttttcccc ccttngg 997

<210> 4589
<211> 945
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(945)
<223> n = A,T,C or G

<400> 4589
ttcnatanca aagccttaac ctcnggtttt tttnttnaaa aggccccggg taatcccccc 60
aattcgggaa tttttccggc atancnacct tgcgttgang gnganagcna agtcgggttt 120
nggtngggna ccnntgcatg gnntaggcan nagnntangg caaatcatta tccgttnnnc 180
aanttgggac gncgcncccc cnaaaattng ggtttaacca ctttngngtn ggggcccntt 240
tccaaaggtg gntttcccga agggccnctt ttttaanngg gaannttngg aaaaccnttt 300
ttttttnggg ancaaanact tanaanngcn cgggggcttt ancccccntg gtnataggcn 360
ttttggaccc tncaagatgt tcaacgtgan tcntgccaaa ggtttggnna cttggtgcan 420
gggaaanaaa ttgaaccggc caatgnggat gccttgcact gaagaagnac ntcaattgct 480
ttggagtctg gagaaantgc attattattn gctacaaggt aancatnngn atggactgnt 540
catngctgtg natcgtntnt nataatancn gagccnaatg aannacactt ctantngttg 600
tactgnaata atagggttna ngntnntagg gcagnttgtg tcncaatcnc cntangggat 660
cnnatggtaa tgatggtatc tgnaancctg ncatactgct ttaannttnn gggggaaaac 720
nggctgagta cttgaagtgt aatgnttcnt tacntccagt agcnananac tggtatcatt 780
cagtttttnt cantagnttc nncaaggtaa ngnanaatgt ttttaagnaa aaatnnggct 840
tttttgttng gggggnanaa aantttcnaa gnaactcggt gcctacnnaa angtgcattn 900
ttttgtggaa aaacaanttt ttgccccgng aaaaancant ttttt 945

<210> 4590
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

<400> 4590
aatcatctct accgtttgan tgccngatcc ctcgattcga attcggcacg agggccaggc 60
tggtctcgaa cacctgacct caggtgatcc accctccttg gcctcccaaa gtgctgggat 120
tacaggcatg agccactgtg ccctgcctgt aatttttatt taatttttcc ggtgatggca 180
tgagtgaatg tccacattta aagttatttt ggttcacaca tggcctttgt ttattattta 240
tgagaaaaaa ttatagaaat aatttaaggg tggtacagaa atgcaaatct agaggactta 300
aaatgtacat gaaaactcca tttgatatga caaataattt acaggtcaaa tattttaata 360
tttatatata taatagatgc cagttagcac aattgacaag ttctctttta cagaaaaggc 420
cccaaaatgt cttctactga tgccagatca gttgattatc tagggataga tatctgaaat 480
aagctaggcc aatttgattt tctcactcag gaattatttt attgactaat tttattagtt 540
cattcagtca gcaagtattt attgaaggcc tgttacatgt ttggttgcta gagatcaatg 600
atggaaaaat tcanataaag tttctgcttc aaacaaagaa attaaattgg ctagacatgg 660
gaaaatagnt ggccttccca agangggaag gttctataca tttagtgctg ntaaggccta 720

taagaactnc ctctggattt tntccccccn ttgc 754

<210> 4591
<211> 1389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1389)
<223> n = A,T,C or G

<400> 4591
cttnncttgn tttnngccat cntcntccgt gtgcgtngcc gctgccnttn natnccnctg 60
tgtncacaan nctgttgtgt ctttacactg ctcnagtgaa tcggtnccgt ncttggatcg 120
ggnggacctc cttgggagat caatnccccc gtccttccta cactttgctt ctgtgaggaa 180
aagaatncca acctntccag ccctttttaag gttcccttca tgaccttnaa ccctaanccc 240
cccanaaana aanaaccaat ttnnttcaac ccgggaattt ttttgaaaaa aaattcnccg 300
ggnggtantt tngggaaatt ttgaacccaa aaccngaann gggaatttta attttttntt 360
tttgaaaaaa aaaaatgggg gttccccatt taggggtttc ccaaccccccc caattgggtt 420
ccccccttt ttcccttngg ggggananaa agggaaaggg aacnccnngg naaaggtttt 480
tggggaangg ncccaanccc aggganaan gggggggggt tnccctctan gggnnatttc 540
cttgggncca aaaaaccccc ccccattggt nccctttgg ggnaaaaaaa aaggggtaaa 600
gggngggccc aaacnaangg gggtttggcc nttntntatt nccnttccca aaanggtttt 660
taaaaacctt ttttccaana aanccccctt ttcccggggc cccntttctt ttttaaaagg 720
ggnttttttcc naaaaaaatt tggaattttt ttgnttttcc ccttgggtcc ccttgggggg 780
ttcccccctt tanncccggg caccnttttg ggcccnttng gggggggnaac cctttaacca 840
aggcccaaag gnccccnttt cntttnttttt aacccaannng gggggntttn ccccttttaaa 900
anccntttna aaaaccccct ttggaanttn ggngnnaaaa aaanaacccc ccnttnnttn 960
cctttaancc ccccccnttt aaanccaggg tcccntnccn ttaacctttt ngggnncctt 1020
tancctnggg nttaaaccct ttttcgggaa ttccaaattg gggnaaaaag gtgnggggggg 1080
ggcccntttg gcccccaact ttttgggaat tanggnaaaa cantttttc gtaaaagnaa 1140
ggcccaactt tgccttaaat tttttttttg gaaaaaaaaa gggaagggnt ttttgggaaa 1200
attaaattgg gnttaaaaaa naaataacna antttgggca aancnngggg gancnttttt 1260
tnaaaagttt ncnttttccc cnttttnccc ccanttccgn aaangggaaa gaagnaaatt 1320
tnccgggtnn tttatttccc cannccccccc nttttttttnn ggggggnaaa aaaaaatntt 1380
ttttccntt 1389

<210> 4592
<211> 955
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(955)
<223> n = A,T,C or G

<400> 4592
actttgatat tattaaaanc cctttncccc gatttttcta aatggnccac gggaatnccc 60
ccnattccgg aatttncggg gtgggaaccc tnggcccnag ccnttacccn angttgggtt 120
tttccccgga aaaaaaatgg gaaggggggnt tgtntgtaat ggtgtntccc ccaatttttg 180
gccaaagaaa gcccaagggg gaacaaagcc aaggttccaa ttccccccccc aattaaagcc 240
ccccttcct tggaaaaggg gaaaggggggg gaangggggn aatttgcctt ttaaaaaaaa 300
gccaangggc ccaagttttt cttggttcca aagttttctt tgaaccgttg gggccaaagg 360
tggcccaant tggcaaaact tttggttgcc cgggaangga agtctttaaa ggaaagtgcc 420

tggtcantaa attcaataan gggtccaaga accaaacaat cttggaatga aatgaaccca 480
cctggaaatg tgttgtggct gacccacaag gaaggtgaat cctcttgctt ggggtgctta 540
tggtgtcagg ttgcttnctt ccacatctct catttgctta aagcagctac aaaaggatcc 600
aaagactcat gagactaaaa atcattctga ggacaaagag acaaagatct gnctgtggtc 660
acactgtgag gcttgcttac actgatgttc tctatgggag gtcactgaag acattcagcc 720
ccacacgaga agatcagagc aacttggaaa ccccaaaggg agacacaccc tttaacactt 780
gccgtgctgt gcttgtgccc tgtccttnaa ggaaggaaaa gaccctatct cctctgggtt 840
ttgntggctt gacanttgca acttgatcat gcctttgact ncntcatctt nttaacaaga 900
aggaaagaac ttgtttttta ttcnaaaccc ttttnaattt nngggggggg ttccc 955

<210> 4593
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 4593
nnaaaacccc ttngnngnna cnnctttga atnccctttg cnactngctc tttntgcnng 60
gatcccatcg attcgctaac aagcgattnt aaaccaccta tgagtatctc ttntagggct 120
ttcttaanta catgttngna tatactgtat nntagccana ntaattttnn atctgatcag 180
gtagtngcta aaattagaaa aaaacaaant agatgcttaa agaatttgca tccatttttg 240
agtctaaatc ttttaaaata tactgagatc cacatctagt gaaatgtcag tgtcaaaata 300
ttatagatta tagctaaaat ccagattaat actcattngg ggtttttat agtggaactt 360
catagtnata caaaangcag atngtcttcc tgtctccgct gctnccacag taggtattga 420
aactggtnaa atcagntctt ngatagtgtg tgtatataag aaaanataga tacncacatt 480
ctttttttctc agtcaacaca ttgattgaac actctggcaa agatgctgng gtggatgagg 540
ttggagttcn aaagaagaag canagcgctg gcctgccttg aaagaaccga agtctttcnc 600
attcacttct ntagaaagct gccaagacag angcagaaag aaatggatga taggtctgct 660
aagcacactt ctggntctct tagaacttag aagtgnttct aagagaacan aagnctaacg 720
agaaacagtt cntngtngaa tcaacaatct ttnggntgga accccnttgg cnttttttt 780

<210> 4594
<211> 902
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(902)
<223> n = A,T,C or G

<400> 4594
ctttttttcca aaaaccccct taccttggtt ttttttttaaa tggtcccggn antnccncca 60
ttgcgcnatt tnccgnaaaa tttncgggnc caccggaagg aaaattagcc catgggaagc 120
ccggtnccag gaaaaaacca gggnccaggn aatttccaaa aaatccctgg tttantcccc 180
aaagnaatgg cccaaggtng ggtttaatgg tnacctccnt aaagcccttc caagtttttc 240
cantccaatc cttgggaata ataacaatat tggggtacct taatccttaa caangggggn 300
tggtggaata acctataacc ttaattaatg gtattntgag gggcattagc naaagcattt 360
nggcacatac tagtgcccaa nggtgtnctc atttgctgtg ctacatggnt acccctttct 420
ntccctgana aatctcagga tttgggcaca ctgcactact catntaacnt aaaataaaca 480
naggccgncc ngtggctcac tctgtatcca cacttgggat gtgacgcgcg atcacaaggn 540
angagatcna gacatctact atctgngana ccngtcttct aaaaatcaaa aantaccggc 600

cggtggcggc acctgtntnn cactctntgg agactgaggc angagaatgg ngtgacnccn 660
naggcggact tgcagtgagc cgagataagt gctactgcag tncgggnctg ggtgaangag 720
caaagactnc gncttcanaa nttaaantna gtcananccc aaaattaagc aaggttggac 780
ccccanttan ttaaaaaaan ttcccgggtt naaaatttgg gaaagccttt tnccaagttc 840
nttnttaaat ccccaattta ntttaaagcc ccccttngg gggttttaaa aaanncccaa 900
ag 902

<210> 4595
<211> 891
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(891)
<223> n = A,T,C or G

<400> 4595
ccnnttttn ttgnattttt tcccannttc ccccntttac cttngggttt ttctttttt 60
tnggccaagg ggtaatnccc cccnattccg gaattttncc ggcaaatttt cggtngccaa 120
ccggaaagcg aanttnctta gacgtgggga aaaaagnccc tttgncntac ccccccnann 180
tanagnnggg tnggggncca aaccaaagtc aanggggta ccnactttgn nnaacctngc 240
ctgggaatng aaacccgggt ttcntnggtt ttccnattcc ccccattttc ccgntntttn 300
atttttnaat cggaaaattt gntaaaaacn cggcggtggt atttaccngn ccctttttt 360
cantcggatt ttnnaaaaaa anaagaggag tggcaaagga aacccctttc tacacataac 420
tgaangccac cagtgattca gtnccagaga ggaggggcnt nncatantta tattcatcna 480
tgcagcagga ttttcgngta aaaaaatcgt tatcaggcta cacacatgga ggaggctgnn 540
ntcgcatggt gaaataccac actngatatc cactgnatct tgacctactc ggccgacnng 600
catnaggtat anntgtcnct ntnttttttct ttcctttgat ntttncngtg tcgnttagaa 660
caaagctcaa tctntcatnt angntcantg cntngtcnca atttnagttt aacttgttgc 720
cntgatcttn ccaggnttaa gcnaattttt gggcctttag ccctcncaaa ttacnctttg 780
gactacacgg cntttaaccc agccttgccc tgggcntgaa ttcctgngat ccttttnggt 840
aanaaaaatg gggggtttcc aaccattttt gggtttttt ttnggggggg g 891

<210> 4596
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 4596
cannnncgtc gannannnan nccnaannaa anannnatna angnncnnna nannnncacn 60
nnntcatngt naccttgaan ccttcaactc ttgcgtctcg angnnccaag nancgnanng 120
gaacgagcca annttnacg ggcnancntg cancccaccc aagacannna tnggcaanng 180
ggcaannaa cggagtncan nnaactnaaa cnggntgcca nagataccgg cntntgccan 240
agaantnngc tgngcaattg atganaaant atgagnagcc cncctcgatc gggganggcna 300
cangggccgn aannggnctn acnctgngca gngcatnatg agcggcaaaa ngngnagctt 360
gaanncanna tananngata ctcnagcngg angccgggag tgaannacnc nanngctata 420
taacctaacn ttnaacnaga tgggncaaca atgccnanaa cagggncacn ntangaaang 480
ttggggacgc ccccatccgg gaccangaca catgagntac tncntcaang acanagatca 540
acacangggn gaanacanca cacactgcnn taacngaagc atgaanggaa atgtggcctt 600
tcacnaaaag cgnacaangg attgctagat tgaanacaac cttaaccctn ctntagcact 660

tggcgattnn nntntacggg aaanggnncg caaangaggc tnctnntgng aaaaaaaggn 720
ccnntctcag ggaaactttt tccccgngna acccccagca ttgtggnccg ggcaccccna 780
gggttanttc ctacaaaagt nccgnnggcc ccccccccccc cnccnnct 828

<210> 4597
<211> 1395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1395)
<223> n = A,T,C or G

<400> 4597
acccccaacc nncgccccnn cccccaagcn nnacgccncg gcgcnanngc gnnnacgggg 60
cacgcggcng cctntgaacg cttggaacnc cncctcgacg cgcgggccng cacnaanngn 120
ccgngcngnc cccgncgcng gnnnnnnnang cctttncnnc ccnnnacnnn ncacnccnga 180
aagcccnncc cnccgcnacc gagnaccnnc nccnnccncn nccganccnc ncgcgcncng 240
ggncggnant nncngnggcc nanacnnacc gncnnncncg nncaccncng accaaggcnn 300
ncnccacnag accnnagnnn nncncnnacc ccncannccn nncnncatac ngccncnatg 360
cnacccaccn ccccanccan cagncnnnga cctcccnaac gccccnctca acgncnancn 420
ncacgcgacn acngccgcnn anncgctcna nnccngccan ccacnnacca ncgcnncagc 480
cgcncgncag cccggnccac nncnagcacn acnggctngc accannnnnc acctnnncgn 540
acnccaacng cnnctncnng cnctnnncca ngcnncacgn acgacccann ncnccagagc 600
gnnacccann cagcacgncn gnannatcnc gccccgcncn ngcgcnctan anacgcgcgc 660
aananaggcn ncnccnnnca caancngcng annangtnna gcnnnngnct gnacnanaca 720
cacnnnacca cnnccnccat gnncanacan gcngcnnntc tnatcnnnnn ngccatntnn 780
cannaancnt ncacccccna gngnagnnca aanatgnngc ancnccntcc cgngntanan 840
cncggacnac ncagncanca tacngancgn cnccanggag ncnccntccg ancencgaan 900
gncncncann nccgnccann cnntnncaca acgnacacga cnangnncgc agcaccncgg 960
cggccangcn ngacggccan ancnancagc gcaccacnan accacaggng nncnnncaac 1020
gnncacaacn nngcanaacc annnacccct angacannac gggncancgg ngncgancnn 1080
nccngcancg ctacgancan cgcgnantgc gcccacgacg anacacgnac annnnannnn 1140
gngngctccn gacanncncc gcccacacnc tncgcncccc cncncccagc agntcgnntc 1200
nccaccgcag acgcncanag ctacctcnnn cngnntnnnc ccnnnccgca cancgctann 1260
nctacnangn acgnntcgcn naacantcgc ancnccancc tncncnnacc acnatgngat 1320
ntccgcgant gcacanncnn nngngccncn tngcanntag acaccangca gannengtnc 1380
nnancgcngc cnccg 1395

<210> 4598
<211> 1053
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1053)
<223> n = A,T,C or G

<400> 4598
gtgncctccc ntccttttca annnnntngg aantctcnct cgctntntcg tgcnnncgcc 60
nntgtgatng cangantact gagatgggat ncnncccacg tngcccnttn ctggtctcct 120
gagctcaaan cnggncagat tgttnggatt acagntgtga ncctcccntc cnngctgnan 180
atggacttnt taaaaaagnn ctctnttaaa gtannaagga nggntgnant tgantnccca 240
nnangacnaa aacngggntg aaaaaccatc ntaaaaggct gnnatnnnat ggnagctann 300

tnngntccnc ngnnaccttc ngnccccngg nanctnntgn nttctnnatc ctccannnct 360
ntcanntagc ncngnnattt tnancattnt tccaccnntc gctngcntaa tttcnnnnnt 420
tatgattttt nntcaccgnn gtctctttcn nntcnctntn ntgccngnct ctcctnnncn 480
nnnnngtncc ctantntgtn taccncanca tctngttcta cnntcaacat ttgnntntng 540
nnattaacat tncngtctgn tcancttcgn tncttcannt nntannctnt tgnnncgnan 600
tcngttantt cttactctcn cgngnctann ttgtntgatn nttatcgatn tcacctcnat 660
acacntatna agancnctcn cgnaatacta nctnctnana tanctgatca cgcnngncct 720
nntgnttnta atactcaacg tcaccnttat ngcgcnataa nttcnnanct tattgacagn 780
acattatnat nannnatann ttatactnga ntnatctagc tcgcctcaca nntanancac 840
nntncgancg tnttnnnctn ntnnatnatc tntcnntcnn tattatctcn atcccgncta 900
tatnnattnt ttnngnnanc ttcatacnct cnanactctc atnacnnctn ctcncttcna 960
atgcntncnn gcttntgatn tngctcanaa tcaccatctn attatctcat ntccgttctc 1020
ctnntacnat ntntatntcn ttagncctgn ncc 1053

<210> 4599
<211> 1053
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1053)
<223> n = A,T,C or G

<400> 4599
gtgncctccc ntccttttca annnnntngg aantctcnct cgctntntcg tgcnnncgcc 60
nntgtgatng cangantact gagatgggat ncnncccacg tngcccnttn ctggtctcct 120
gagctcaaan cnggncagat tgttnggatt acagntgtga ncctcccntc cnngctgnan 180
atggacttnt taaaaaagnn ctctnttaaa gtannaagga nggntgnant tgantnccca 240
nnangacnaa aacngggntg aaaaaccatc ntaaaaggct gnnatnnnat ggnagctann 300
tnngntccnc ngnnaccttc ngnccccngg nanctnntgn nttctnnatc ctccannnct 360
ntcanntagc ncngnnattt tnancattnt tccaccnntc gctngcntaa tttcnnnnnt 420
tatgattttt nntcaccgnn gtctctttcn nntcnctntn ntgccngnct ctcctnnncn 480
nnnnngtncc ctantntgtn taccncanca tctngttcta cnntcaacat ttgnntntng 540
nnattaacat tncngtctgn tcancttcgn tncttcannt nntannctnt tgnnncgnan 600
tcngttantt cttactctcn cgngnctann ttgtntgatn nttatcgatn tcacctcnat 660
acacntatna agancnctcn cgnaatacta nctnctnana tanctgatca cgcnngncct 720
nntgnttnta atactcaacg tcaccnttat ngcgcnataa nttcnnanct tattgacagn 780
acattatnat nannnatann ttatactnga ntnatctagc tcgcctcaca nntanancac 840
nntncgancg tnttnnnctn ntnnatnatc tntcnntcnn tattatctcn atcccgncta 900
tatnnattnt ttnngnnanc ttcatacnct cnanactctc atnacnnctn ctcncttcna 960
atgcntncnn gcttntgatn tngctcanaa tcaccatctn attatctcat ntccgttctc 1020
ctnntacnat ntntatntcn ttagncctgn ncc 1053

<210> 4600
<211> 1020
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 4600
tntaatcctt cttnctattn nttnggaatc nnantngctc tatngcgctt gggccnatgg 60

atgccggana actnnnatgg gatttttccn acgttgccna ttctggncnc ctgagctcaa 120
agcaangcng gattgctngg attacagctg tgagccancg ngcctggctg anatgacttt 180
tanaaaaaga ctnctntaaa gtagaangaa nggtggaatt gtatgcacaa naagaaaaaa 240
acctgnaaga aaaacatact aaagaggctg gantgcaatg gcncgatctt ggcncaccga 300
aacctcngtc tccngggctn aagtgattnt cctgccnnag nctcccaggt angctgggat 360
tcaacnnatg nnccaccann ccnggntnat tntgaatngn tantntcnga cctgttcctc 420
tccatagant ggntcncgga anntctncca tnttcnntga nctacangnn ntnncnannc 480
tantanntnn ntcnctctan tnnngntact ntnnanntna tcatnttnaa ntggntctct 540
atctcnantt cactaatngn cctngnacna tnattancgn naccnnctat aaaatacaca 600
tncntgnttc nnntnanata caatnacatc cntngtgagn cactnactna nacngtgatc 660
tctcgcantn tntcnatcnn nccnccatat nnccanggca catctatntc agatnnaact 720
canctngtan tattnagana cnctcgacnc actntctgtt atacttntnn cantctntaa 780
tagagntntt ncganncnnn cttctgntnn ncnanacnac attntnntgt tacatcntnn 840
atatngcctc tnattntanc ntcgtannnc attntncnnt tctncnctca ttancnntnn 900
tancantcnt cncncnntat ntaaanncgt ncacacagtg cnnnntatnc accgaannta 960
cntnnacntt atcacataat cnctgagtnn atatactcnn gttnntctat tcnctatccc 1020

<210> 4601
<211> 1081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1081)
<223> n = A,T,C or G

<400> 4601
ttnaaccttc accaccggtc angatccctc gattcgcaga acccaagagc aaaagcagcc 60
ttcactnact gtcccatgaa ncaaaaattg gatcttttct aagcaacaga aactttagga 120
tggcnangac aaaagctnng ncttnntccn tntganntan natatgnaat ggagattctt 180
tctnatgnng atcccattcn gttagccnta aaaannncat acgngcnnnn cggaatngga 240
ccttagcaaa ccaaatgcgg naaagcctga tggncgaatt ngaangangc cactgncccc 300
ttaaaaaatt gagcctcnnc cttnccctgg gcgggnaaac ccccttcctt nttnaaccgc 360
ttcttnntag ntcaaaaagn gnggtaaatn ncccgggttt cttatagnat cttgntaacc 420
tntatccttt gtttgaacaa cttttcatcc cctnttntnt ccccgggnaa aagncttctt 480
aaaaatggnn gggnccttt cnttttantg gatttttcca atnnttaaac ngcttttaat 540
cggnttccct aagganancc ccggaaaaaa aaaatttgan tttnggggga agnaagnatt 600
tccaacggna aagaanccnt ttcccttggg nggccaaaat atttnatgga cnctttttta 660
ttttcccccc cttttgttaa aaggnctttn ggaantggac ccccttctnc caccttttaaa 720
aanacctngg ggctnggtcn tttgcccaaa ccataanaag ttgggaatag ctatggcccg 780
ggtnntttaa ancccttgng gaaaaaaaan gggtttngcc ntttntttta cncnccgtaa 840
tttnnaaagg gggggggttt ttttttctnc ntttttaaac caaanggggn cccaatttng 900
gggaacctgg gaaacccngg gtttccccca ttttttttt ttttttttt ttaancaatt 960
aaanaaaatt cccacanttt nttttttgg ngnaaaangg ttnnttggga acccccccct 1020
ttattanggn ggngggcccc tttgggnaaa aanattnttt tntttnnggg cgnaaaaaaa 1080
a 1081

<210> 4602
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1046)

<223> n = A,T,C or G

<400> 4602
cgtntttaaa cncttnnact cccgtgcttn atgccgancc acncgtactt aactggcgcg 60
ngatgtgtgc tttngtnagg catcactttn cccaagnatt tcatgttcat ngtaaagagg 120
aaaaatacan attnctctat aatgtctcca ctnattggct aantcgccac ttntcatctn 180
tgtgggaaat gccangtttt gaantcaagc cttcnnnaat tnngaacatt tnttncaang 240
tttattcccc aattgcgggn ggaanatccc tnacctggct naaaaatnaa atttctttaa 300
cccattngga aattngcnta aggnnccaaa anaatttttg gcnctggcct ntcttttaan 360
ggnccctttt ncccaaaaaa nggaaatttg gcccaaattt cttggnggga cccctggncc 420
aacncctttc cccttggaaa ccnaagnccc ccggggaccc attggccttt naaanaaaat 480
gggnanttng gncccnanaa aaaaacnccc cctngggggn aaaaanttta aaanngggnt 540
nggccccntt taaaaccaaa gnggttggna aaaantaagg nnnccttacc ntaattttna 600
acagnttanc ccttttttgg tcctgggaac caaattggng gnatnaaagg cggaaaataa 660
atttgggaat ncccccaccc caattntngg gaanagtnat ttggncnttt ttnaaacaat 720
ngggaaaaaa tctttaaggt ccnaatnacc cctgggggcc ttggaaagtt tnttcaaaaa 780
nggatttncc aaaaccctaa cccttccccc aaaaaaaaag gggattccaa ngggtttant 840
tnccctcaaa tncaggtanc ctgnccctta aattattatt aaaagccacc ctttcccgga 900
agaatccaaa tnccgnaacc anagtttaaa aaaanccaan ngaagccttg ggncanggcc 960
agttttanaa gaaaatggcc cnaacaaccc ccggttttgn aaaaaagagg accngggggtt 1020
ttttttttt ttnaaaaaaa aaangg 1046

<210> 4603
<211> 891
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(891)
<223> n = A,T,C or G

<400> 4603
ttcatcctnt ntngcttttg tgcagatncc tcgattcgtg agtgtgtaac tcctaaatta 60
gaacactttg gtatctctga atatactatg tgtttaaatg aagattacac aatgggactt 120
aaaaatgcga gggaataata aaagtgagga ggcccttaga tacagaatcc aggctcaatg 180
gataaatgtt tttggcccct cccacccccа tcatccagna gttgggaaaa aaagtgatgc 240
cgaatatacc caactcttcc ttttggtacc ctaccatttc tggtacctcc tgggttttgg 300
aaaaattccc atcntaccaa aggaaacagg cattagcctt ttgggtattn ccccaaaant 360
taccccant tanttcaaaa aaaccaaaaa taggtttcaa ttcaaaaatg ggaattttgg 420
gnaaagtttg gaaagaatcc ggtacctttc ggtttggggn tttttaaaaa ttccaagaac 480
caccattgcc ttttggagga aatttttaaa ccaggaattc ccctttnttt tcaaccctta 540
ccggaatttt cntttcttta atggaagnaa attctggcnt caagaaacaa cccttaccac 600
ccnttccaag aaaggttaac cttnaaaant ttcccagaaa agaatanttc ntnccagcnt 660
ttttntcaaa aaataccaac ctccaaacct tagcttnctt ccaatagcca atttaaagcc 720
gtgccncccc agtnaaaagg ntccttaaac atggacagaa catncgagat gtcagcaaca 780
aagaaactga aattccgtgg atctatncac acagaactgg aaaaaaaaaa aaaaaactcg 840
gcctctanac tatagggggt ccgattacgt aaattccccc ccagggnaaa n 891

<210> 4604
<211> 877
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(877)
<223> n = A,T,C or G

<400> 4604
tcgnttngac tnttgaattt ngaagccntg cgngaaccct cangacncan ncgnnncgag 60
nggnantgnn cccnatnctn agatttttct gggngnantg catgnggtct nnnaaggcgg 120
ntnctngaag aaccctngnt tgaattacna nagagngccn ngnattnnaa gcccaatatn 180
tggcnngcgg tgtccattaa ttntatancc nngcnanaca gatgacactg ttttaaggaa 240
atggngccna acccaanccg ggtggaanga atgaatnnca agantnggtc tancggggan 300
ttttttaaag acanggtctn actctgttgc ccatgctgga gaccaatggn gcaatcttgg 360
caganttggc tgatagttat ccttnggctn ccgnaantnn cggnnaccgn gaaccccata 420
gccgttaaga aggtnaggcc tntggaatga aaccgtttnc cancaaacna aaagagctga 480
ctgnnaaacn catcccacta antggaaccn nnnccggctt ntnaannent cnntnattna 540
ncctggacct ggccctaggg ggaaanaaaa agntgccngt tggcnaaang gaggntncct 600
tttntttgnn naaacaaagg attnccggnt tgaannectt gtcccncaga tgtntentaa 660
aggaccccca taaaaccngg gnncgnncca aggggaggnc cccgttggga tnttnggagg 720
attccttttc cccaataaaa actnttaccc agnttggnng agcnnggcng ccaacccctc 780
cccgnttnan tenttnaaan cnctctctng aacnccccte nnnatntgct cccatttnaa 840
ngnnectaat ggggtttttt tttttntnna nnnccct 877

<210> 4605
<211> 854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(854)
<223> n = A,T,C or G

<400> 4605
nnatcanttt atcangcttt ntnntcnntt tgcaggatcc catcgattcg catctggcnc 60
gaggngccat aanctcantt tnaaanngaa ttnnttttaa ntggangana tnctntcgnt 120
nganttcngg ctttntgang gngacggnta gnnantcnan acacacttnc tnnacattaa 180
tgggannegn gcctganctc gggganctncc aaaangttng nntttcctac gaatgancac 240
nccntggnct gngnggaatn cgggcgantt agngctgcna tggtgacatt attnntncta 300
tataacanta ttgctggcnt ncctaccgna gnnnntnnac cctgnantgt ggcactnccc 360
tncatatcca nanntcctcc gactgtatat gccttccgtg cngcatacaa nnnangccta 420
tancttaann gnaaccanan nnntgnggaa nggatgantc caatacatgt gnncattnnt 480
ncatgngtgt tccnacatgt ggncttcgaa nctcangctt tggaaaccag ngtttcacgn 540
gacaatgana cctttccatg cttntntgcc ccncaatntn cctcaatttn nttataanca 600
aaaaattttt nntntatttt canaaggngg tccagtantt ttnttnacat ggganngact 660
ttaaaattnc ctaagcaagg ggaanccatc ttttaangan cattaanttt ctntgggggg 720
anaatccaaa ccanancttn gaacctttt tcaatgaact tntngcaacn ttatttttg 780
agcanccaat ttttttcgtt tgaaattccc aaanacaaat tgtgttttag aggnnnnaaa 840
aaatcncttc cnct 854

<210> 4606
<211> 1401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1401)
<223> n = A,T,C or G

<400> 4606
ccttttgaaa tttttnnaaa atttccnttt accncgggtt tttttttnaa tgggccncgg 60
gaatcccccc natncgggaa ttttccgncn tncccttctt gggaanagga aaaaatnaaa 120
tntnngagtt tantggccca cnataagggg aatccaaagt tngccaaang tttanatggc 180
ctgggtntng ttgcntccca actggaacct gggggtttcc caaggggga acccccggg 240
aagaacccta ncccaaactt gaattttaan aagaatggaa gaaagnnggg gtttanctgg 300
ggtcaagaat ggaaacaaat nccttttccac tnaatgggcg gtggaaatgg gccctttaa 360
ccanggaaga atgcctttgg caggcaangg aaggaattgg ccaagaatgg tcccttggct 420
tccacaagta ntccattggg caggncaaaa tggaacnatg gtcggaatga aataatggtt 480
tnccccnaa aaatcattan ntagtngaac ntttttggg ttnggaaanc cttccttggg 540
gccnntaaat taaaagaaaa aaatggnaaa gaatgaatgg taacaagaat tanttgttca 600
aaccngggac cttncttcaa agccaagtaa ntttaagtng gaaagttcct cggaatttgg 660
aaaaaaaanc cntttaaaaa aggnaaccaa atttttccc aggnaaaaat ttgggaaaat 720
naccttggtn aagnaaaant ttccttggat tttcnttttt taaaacaaag ttaaggccca 780
agggggggnaa aaaantgggt ttnnaaaacc ttanccaagg gggttgggaa cccaaaaaaa 840
aaaaaaaatt ancccccccc aaggggnttg naaaaaaccc aacctttggg gccttttttt 900
tgggggttaa anggaaaaaa tttngggngg gncccaaggg ttcccannтt tttnaaaaaa 960
aaaagggtcc naaaaaaaaa antttttttt ttttttnggg aaaccnтttt tttttnтttt 1020
ttttttttтn aaaaaaaggg ccccccaaaa aanggggnan ccccaattta agcttttttt 1080
tttnaaaggt tttttttтaa aaaaggnccc ccaccnttta aaaggggtta aagcnaaatt 1140
antttttтta aggggggggg ggaaaaaatt aagggtttcn aaaaaaaaan ttttttтaac 1200
ctttgggttt tggaaaaaaa aaaaaaccca aggctttggg cctttanttg gttgggccct 1260
tttttnтttt taacccccct tgggttttcc ttgggttttc cccaaaattt tttttggcct 1320
tgggggaatt tttnggggaa accaanttaa agnnccccan tttttcccnt ttttttтggg 1380
ggggggaaaa aaaaaaanna n 1401

<210> 4607
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 4607
ngnnnnnntt tcnaaanccc ttttcnaatn ccttggctat ttgatctcct tgcangatcc 60
catcgattcg aattcggcac gagaccctct ctggccacat ggaggcagtt tcctcagttc 120
tgtggtcaga tgctgaagaa atctgcagtg catcttggga ccatacaatt agagtgtggg 180
atgttgagtc tggcagtctt aagtcaactt tgacaggaaa tnaagtgtnt aattgtattt 240
cctattctcc actttgtaaa cgtttagcat ctggaagcac agataggcat atcagactgt 300
gggatccccg aactaaagat ggttctttgg tgtcgctgtc cctaacgtca catactggtt 360
gggtgacatc agtaaaatgg tctcctaccc atgaacagca gctgatttca ggatctttag 420
ataacattgt taagctgtgg gatacaagaa gttgtaaggc tcctctctat gatctggctg 480
ctcatgaaga caaagttctg agtgtagact ggacagacac agggctactt ctgagtggag 540
gagcagacaa taaattgtat tcctcagata ttcacctacc actttccatg ttggggcatg 600
aaagtgaaca ataatttgct atagagatta tttctgtaaa atgaaattgg tagagaacca 660
tgaaattaca tagatgcana tgcngaaagc cagccntttg aagttatata atgttttcnc 720
ccttataaca gcttaacgta ttacttttтc ttatttggnt tatnataana nagntgngtt 780
antaaaan 788

<210> 4608
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4608
tgntcnccta gggaaaccct anngaaaagc ccnccanntt tggnnaaaac tncgctncan 60
ntgacgtcca cacaccctnc tcgggtagag ntcattttgt ggcaacggaa tgcnccggnc 120
aaacagnagn gnatnttnnn ggcacagaag gccngngcca ntttcatgga cacctggctg 180
gacctcngng gaagngaact ncgataagat gngtgcgttc actgcagnac ctcacantga 240
taccgtccnc tctaatggaa cngancctcc ccacatgcac ncnccactca aanggagntt 300
naaaggctgg gttcaggtta caggggcgtn ttcttcaccg tctgaatgcn ggaagacaga 360
ntacnagctc cagaggagcg ngggcgggag acggagctga natgcgngat gtctaggaaa 420
ncgtcctcgn attcctnagc gcgggcngcn ngactgntcg cggcccttgc ctgncttnca 480
ngagcgcttc aacttnnncc aacacacccn cggnctgatg ttccctnnct ccggcggcct 540
gcacacccca acnatgcctg actnggangg ctcnccntnc cacacngacc ntganttngg 600
gnncaagtna cancctgtnc caaantaccg nttaatncca aaagngnacc cntgaaaagg 660
aancggnccg ggncctntag ccngngntnn ancnggancc gggnnnncnn ngngnangnt 720
ngaaagggtt cncccgancg nnttntcgnc ncctcgnatn natgcntccc cnggcantag 780
ncnacntcan ncg 793

<210> 4609
<211> 1104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1104)
<223> n = A,T,C or G

<400> 4609
nncnaaaacn ctttnnnctc ccgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggaaaagg gacagcgtgg ataaaaaggt tttttaaaaa catgggatgg ttaaaggctg 120
gtttttgctt tgggaagaaa gaacttnggg gaactggggg ancaggtctt ttaagaatat 180
ttaatttgga aaaatgcctg ggccacctgg tcctaatcct gggaatcccc aaggggcttt 240
ggaanctaag ggaattttga agggaaagtt caccaagggg aaagccaaga atttccaagt 300
cctggaccaa ttttatttcc antgccaaag gttttttttt gggtgcctgg taagttatta 360
ttgaatggaa aaagaatggt aaaaagcctt gaaattaaaa ggccatttaa ttttcctgcc 420
ccctaagaag tttggtttcc accagccccc taaattccaa gggccattaa tgggaataat 480
ggttaaaaac caaatggaac ctggtaaacc cgtnggttta ttacgaatgg ttnaaaggan 540
ccaaaaaatt ttaaaaaaaa angggggggn ttttttaaa naaaaaaann gaagggccat 600
taaaagggaa ncccccctcca aattggccaa nangaatttt ggaaggggac ccanttnaat 660
ttttttaat ttnttggaag ccctttaaa aaaaagaatg gaaattaagg ggtggtttcc 720
ttccaangga aagggtaagg gggaatcctt gggccttgga aaaangggga aaattaaatt 780
cctggaggcc aaaaaggggt aattgaaaaa ccaagcccct taatngccnn tttaagnaag 840
naaaaaaaaa gggttccctt ttttaaattn aaaggggcaa tttttngggg ggntttnggg 900
gggggaaaa ancccttttg gnaaaaaaaa aagggaaaaa attnggggggg naaancccctt 960
nggggtnccc acccaaccca agggggggncc ccctttttggg ngggttgggc cccccnaaaa 1020
acccttaaaa agggggggggg tttttnggggg aaaaaaaaaa atnaaanaaa tttngggnaa 1080
aggggcccca aaaaaaaaaa aaat 1104

<210> 4610
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4610
ggnctttgaa acccttgttt acntgccctt tntgcaggat cccatcgatt cgantncggn 60
ncnagctana cctcntatga gggtnncntn cagggctacn gtgattacat gnatgtntat 120
nctggnnngt agccgctant ganttgatat ctgncaggtt nactcctaga tgtcngnaac 180
cgcgtganat ctgccgcccg acctnagcat gnatntgagc gtctatcaca nctnnnngan 240
actgggatnc acatntatgg anttgnncnn gacaanatga tatanntgnt ntcntntant 300
cngantaant ctaatttnnn gntatgtnta nnggancntc atacctgtac aagacgcnca 360
tagcntgant gnctangctg ctnaccacat gtaggnattg aaannggtta nnttagacca 420
tgnacannnt gtgcctatac ttaaaagatc tnttgactan atgctgctcc ttgtagtacn 480
nnacccctga tctggncacc nctggtnant tantgctgtt ngccnnatna ggtacggtag 540
tttnganang ancatanctg gcgctacgnc nggccnttan ntganccncc atanacatcn 600
nctattattg ataccngccc ttaggatnag gcngtgtcaa atggatganc naccantagg 660
cnanttntgg tntcgtacna cttggnaacg cccttagagt aatnaaangg gaagntgaaa 720
cnggggcntn gggaaattan acatcgttgg cntgangcnt aggcttnctn atntttggan 780
ngann 785

<210> 4611
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 4611
gatnttnttt tcaaancgct aggctactcg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gaaagctcat taccagtagg acataatttt tggctctccc tattcacaac 120
cagtgcacag tttgacacag tggcctcagg ttcacagtgc accatgtcac tgtgctatcc 180
tacgaaatca tttgtttcta agttgtgttt attcctggag tgacatgcca ccccgaatgg 240
ctcactttca ctgaggatgc tgtcctctga tttagctgct gcctccagcc tctggcttga 300
gaacttacta aaggcacttc cttcctgtta aacccctgtt aactctccat aaatttggtg 360
attctctgct aggcctaaga ttttgagtta acatctcttg aagccaaact ccaccttctg 420
tgctttttgc ttgggataat ggagtttttc tttaganaca gtgccaagaa tgacaaagat 480
ntttaaaaaa anagaaagaa angnaaaaan aaaancccct nacttttaaa agnaaaattn 540
cctnacnagg attttttaan tatnagntna ttcttttacc cantttttcnt tttnctannt 600
tccctnngat nttttccaan ctnaanggct gggnattttt aaacttcant ancttgttga 660
aagaccaaaa ggtggttttt tgganttnag naaatttttt ggaaaatctg gcntaatnct 720
taaatttggt aaaaaatttn nggaaaattc cttaaanaaa taaatntnct tattaaaana 780
aaaantngng ccttttagaa ctttngngng cntttncn 818

<210> 4612
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 4612
ttcaaatngc ttggntctng ntctttctgn angatcccat cgattcgaat tgtgactnat 60
ncnaggataa atgtnatatg cgtatgattn tgatatgact ttgatgagnn tcttcaggga 120
aaattnctna aantgaaatt gctggattaa ngggtaaatg catgnatagt nttgntagac 180
aggnccannc nnctncctta naggtngtnc ccttttgtgt tcctgccann natatntgag 240
agtncacnga ntatgtggtn nanctntata atgcttgtcc atctgatang gaanaaatcg 300
agtatgcctt aatntgccct tcttttatta tgaatcagat tttaatnttt tgcctctaga 360
actatagntg agtngtatna cgtagatcca gacatgataa gatacattga tgagnntgga 420
caaaccacnn ctagaatgca ccgaaaaaaa tgctcnattt gtgaaatntg tgatgntatt 480
gcttnatttg tgaccattat aagctgcnat ntncaagtgn acaacaacaa ttgcattcat 540
tcnatggnnt caggttcngg gggactgtgt gnggatggtt ttntaattcg acggncacct 600
gtgccaaatg cattggngcc ccngggaccc cagctttntg gatnccttt acatggaggg 660
gttnaatttg gcccnccttg ggcngttaat cacttnggnc cataagccng gtttnactgg 720
tngttgaaaa tcggntantt nccgtttcac caaatttccc cacngggnat tttctagccg 780
nggnagcctt caaaatggnn anagcccttg gggggnc 817

<210> 4613
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4613
gtttnnnnnn nttnnnnnnt tcnaatngct tggntactng ttctttntgc aggatcccat 60
cgattcgctc aggcttgggg ggaagaacaa gctacttggg agttaatgga tgatagctgc 120
tgtggccatt tttcttaaga gttagactgg ggagatgggt ttggaaagta aaatgcaaat 180
ggtgggtagt ggtattaggt ggtgatgccc aaggcgtgct gtagaaacct gcagggtgaa 240
gcccataact tttgttacgg gaatggggta actgaatcct aaactagcta ggggagatag 300
ggatggaaag agcagatgtg gaggttgggg agaagggagt gacaggagat atatccagtt 360
ccagagggaa tagggagagc tgtgtggcta agatttaact gtttggacat ttaatttggg 420
gaaattgttt tccagccaag tgaataaata atactggact tcaagtncaa gcttcataca 480
ggaagtgaag ttttggtgtg gagatagctg catagtcagg gaacactcta aattaaaaat 540
agggaggccg ggcatggtgg ctcatgcctg taatcccagc actttgggag gccgggcaga 600
tcatgggatc aggagttcna agagcaccct tgaccagcat atttgaaacc ccatctnact 660
tgaaatncna aaagattacc cggcgtggtg gtgcacgcct gtatnccact tctcnggagc 720
tgngcangaa aattgcttgg ccccggaggc gtggtgcatt aacccagttc 770

<210> 4614
<211> 1253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1253)
<223> n = A,T,C or G

<400> 4614
ccccnagttt tcnaaaaanc cccncagttt tggaaaangc ccctttgtnc tanacagggc 60
catcccccaa tcgcatttcc gnaaaaagng cgncgcagna nggacttggg nnncgcctgg 120
acnccngnat annntcgggc aacacactgt cgnggagagt ttttntnnca gggccgggtt 180
taattacagc ctcangggta cggaggggaa aaacnanggg ggaanattgg nanannccgc 240

caaangggat tttgggggna aagnaattaa ncccaccana ngntntactc ngncnnaccg 300
gggccaaatg cnaggaaatg gggaaanacc tttccgtngg ggcaagcccg ggnaaccatn 360
gagcgnggga ccanttatgg ggcggggacg naaacctacn ggnccaaaca anggccacct 420
gcttanggaa actaggganc gnttaanaag ancgcganan aagcccgttc ncnnaacctt 480
tgnttgnnnn annaatgggc cntgggggnc ntncaacacg ggnggnntaa annngnanna 540
nngnntttaa acaannnccc tcaangggtt aacccgnaac caacctntgn cacngggnct 600
annnccnnna aaaananccc acacagcgat acnncgggga gaaaaaattt ntaaannntt 660
nnaanancca atngccatnn aaaacncntt gcccaaacng ggaaaaaann gcccccggaa 720
atntancaac cccangtagc cccanaattn ccccaacgga gnggggcccca antatctgnt 780
agggnaatng nggnattngg cnnttnnaaa nggnaanata cnaccgnttt gngnggcnnc 840
aanatggggg ngaattgcaa aagngnantt tggncaaaaa ancnaaaaaa ncgnccctnt 900
tttnnacnan cangggggaaa nncctcnagg gcaaccnata ccnancctgg nataagaaag 960
tccctnggnn acctnanaag nggngntccc cccganaaaa aaaacnaagg nggttancgc 1020
aannccaatt cccccggngg atattggaaa aaaaccnggg gaanaaaaaa aaaaanggga 1080
agngcttntc cangggggag naancaattg gntnaaaaaa ccctttcncc tttanangaa 1140
aaccnttcnt caaaaaanct tntaaanaaa aanccaatnn ttatnnnccg cgaannccaa 1200
agnggtnntc aaaatacngg gancattaaa ccgcgnnatt atcccntnaa aaa 1253

<210> 4615
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4615
ttcaaacnct nggctcttgt tctttttgca ggatccctcg attcgaattc ggcacgaggc 60
gcaatgcgag cggctggcgt agggttggtg gactgtcact gccacctctc cgccccggac 120
tttgaccgcg atttggatga tgtgttggag aaagccaaga agccaatgtt gtggcccttg 180
tggcagttgc cgaacattca ggagaatttg aaaagattat gcaactttca gaaaggtata 240
atgggtttgt cctgccatgc ttgggtgttc atccagttca aggacttcca ccagaagacc 300
aaagaagtgt cacactaaag gatttggatg tagctttgcc cattattgag aattataagg 360
atcggttgtt ggcaattgga gaggttggac tagatttctt ccccagattt gctggcactg 420
gtgaacagaa ggaagagcaa agacaagtcc taatcagaca gatccagtta gccaaaagac 480
taaatttgcc tgtaaatgtg cactcacgct ctgctggaag acctaccatc aacctttac 540
aagagcaagg tgctganaaa gtactgctgc atgcatttga tggtcggnca tctgtaacca 600
tggaaggagt aaganctggg tacttcttct taattncccc ttctatcata agaaagtgga 660
cagcagaaac ttntgaacaa ttgcctttaa cttctatatg cttagaaaca gattcacctg 720
cnctaggacc ngaaaaacaa ggtaccgnat ganccnt 757

<210> 4616
<211> 1351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1351)
<223> n = A,T,C or G

<400> 4616
ccnttttttt ngcnaaaaaa aattcnnccn tttttngggt ttttaaaaaa nancccccc 60
attttttca tnnnttttt tnggnncagt naaaaaannn nanantttnt tnagggnnan 120

ataaannnnn nntannnnga angnnnntnn tntntnaaag tannnnnngn tttttntgaa 180
nnnannagan agnngnnntt ttttttnnt nnnnntanna gnttttttn tgnnggnatc 240
atantattnt nncaaggagg ggtannntat tttnnaanga tgaantttgn atntnanngc 300
atnnannaan naaanttnnt natntngnna taatnaaaga attnaataat tanangatan 360
atacntaaaa aaaganncga gagcattntt nntgggattt ttnatcatct caaatnagnn 420
annatatcta tgaatgatan ttanttangn ttnataannt annnnnaann gtnttatnna 480
annatantgt nattngannt gananaannng atctgccang nangatntna tnaaatntnt 540
nnnngaanac antnncnagg cgnaatnata ttnntantna ntntntnatt annaatagaa 600
aaatntnatn atnatatana ttnattatac antantatgn tnnaaantat atnanntntt 660
tatactctac tatatgaatt attcnnanga natnaattan agnntngaat aaatatatat 720
atntanaatn tnatttaatc tgtannagan tananacttn cnaancatnt ctatgatata 780
tgananagnn tatattctgt acttaatngn atattanata tgataaatan anagatatat 840
ataatattat nacatacgtg tatanantta tatntatntg nagtacnngn gannaatgat 900
tacttatatn antattnana tncnatanat atnnagggta tagtcntgta naatgtgnna 960
tcannngagt cnnnataata nntntatctg ttatgttgtt atatatttgn tngnatatat 1020
nctactannn nataaggnta taatttgnga nnagatgtnn aantttnatc tcanagacat 1080
cnacatgcan atnangttga anantgtttt ntatatctca tangtantct cntatngatn 1140
tntagctatt atntagaana nntanatata tntnctctnt atgtnnaatg actcataant 1200
ctatnatgtn ngtacaactn nctntgtata nagngatgnc tcatanatta cncnntantn 1260
cngatatata tagnnnattt ntatattnat actctantan ntgatngana tattntatnn 1320
acnnanatag actactatan taataanatn a 1351

<210> 4617
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4617
ttctaatncc attctaaatn ccagttccaa gccttngtgc aggatccctc gattcgaatt 60
cggccgagaa gatgcaggtg aacaggtagt atcttcccca gcagatgttg ctgaaaaagc 120
tgacagaatt attacaatgc tgcccaccag tatcaatgca atagaagctt attccggagc 180
aaatgggatt ctaaaaaaag tgaagaaggg ctcattatta atagattcca gcactattga 240
tcctgcagtt tcaaaagaat tggccaaaga agttgagaaa atgggagcag ttttcatgga 300
tgcccctgtt tctggtggtg tagganctgc acgatctggg aacctcacgt ttatggtggg 360
aggagtttaa gatnaatttg ctgctgncca aaaatttgct ggggtgcatg ggctccaacg 420
tggtgttctg tngagctgtt tggactgggc aagcggcaaa agatctgcaa caacatgctg 480
nttagctatt agtattgatt nggaactgct tgaactntga aatcttggga atcaggttaa 540
gggcttgacc caaaactact ggcttaaaat cctaaatatg anctcangac ngtgtttngt 600
caaattgaca cttantaatc ctgtcctgga ntgatgggat tggccttccc ctcggctaat 660
aactatcagg gtggattttg gaaccacccc tcatgggtaa aggatctggg gattggcnca 720
agantttgn taccagcaca aaagangccc cantccttnt tggcaatctt gggcccatna 780
gatcttncag gtngatntgt nccct 805

<210> 4618
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)

<223> n = A,T,C or G

<400> 4618
ccntttcnaa tncnagttat cgcnttttg caggatccca tcgattcgtg ttgctgcatt 60
ctaagcttaa cctcctggtc tcatggcagt gacttgagct tttgattcat agaagaaagc 120
cagaggttct gcttgttctt gtctgccagc cctcgtcgtt ctttctcctc tgcctctcac 180
ctctacccca aatacctctg ttcttagtct caaggggaga ataacatcag ggagcccctc 240
atcttcccca gaaggacttc tcgttcctca tgtagttaac tccattgatt ttcctatctt 300
ggtgctgata gctctctaag ggtagggcac acctncccac agccaccctc ctcttcagag 360
agcccccagc cagcagcagg cccctctgcc tgcactcctc aggcttgccc ctcgctgcct 420
cagtgaggca ctagtgccac tgccgtggcc caccgggcca tagctcaagc tgcagcagaa 480
atgcctctca gtggccaaca tgatgaaacc cctgtctcta ctaaaaatac aaaaattagc 540
tgggcatggt ggcgggtgcc tgtaattnca gctactcang aggctgaagc aggagaacca 600
cttgaaccca ggangcggan gttgcantga gcccgagctt gtgctattgc acttgcaccg 660
gggtgacaag anggaaattt gtctcaaaaa aaaaaaaaaa aaaaactnga nncctntaga 720
actntagtga gtcggattta cgtanatcca gacttgatta gatncattgt ta 772

<210> 4619
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(612)
<223> n = A,T,C or G

<400> 4619
cnnagntcnn attnggttaa ngccctttct cgcagganga ncccatcgat tcgaattgan 60
ctctnggctc cngctgngna nagctancnn gntntttnan acagccnagc angcnnggtn 120
gnatcaccaa ncntgggncc ntacnanggc annatttnng gccngntgna tttggnnaaa 180
agattgngna anggcaangn ttctgnctgc ccaaggacaa ntgctgatga gcngaatnan 240
ctgggnacna annngnttca cctgatnggt attnacctnt ganacacatn ngtngccaaa 300
aaatgggaat aaggnnctga ggnactctca gaggcataat gnactatctg ttcgtctntg 360
atanaggnag gtgnatatgt gannagccca taanngagca tatttcacca aaactntntc 420
cctgggtggt accaccttgg tcnaatgtng nagcaattng caaaatngac tangtncana 480
cgatcctacc gtgntctnna ccaactctga tnatgnnnng nnctngtctt cattgcnaaa 540
angaanctca ttttgcnnta ntactacttg aacgacttag agtngacnna tctacccatg 600
nagtcttacn at 612

<210> 4620
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4620
annttacnaa ancnngngga cntnctcttt ctgcaggatc ccatcgattc gggggcacag 60
gccgagctgg aaggagaatt tggcaaaaag gctnatggct tgctggggat gttcctgaaa 120
cgcctcttgt ctcagcttat cctgctgcaa gcatggactt cccacctctg gaaaatgttt 180
tatgatgctc ggaagccccg gagtcagatt aagaatgaga tcaacattga caccctggcc 240
agagatgaat tcaacctcca gaagatgatg gtgatggtaa cagcctcagg caagcttttt 300

ggcattgaga gcagctctgg caccatcctg tggaaacagt atctacccaa tgtcaagcca 360
gactcctcct ttaaactgat ggtccagaga actactgctc atttccccca tcccccacag 420
tgctcagcta agaactgtag ggaagatgga tgaccttcac gcagaactcc ttttgggata 480
tacatgatgc agaaaggatc ctacatggag agagacagaa ctctctcagc tgacactctc 540
agagattcct gatgggcttt ctcttgaagt ccaaggcgtc tgcattgttt ccttttcttt 600
tgcccatnca tgaatggttc tggtttggnt ttggtttttt ttaataagga atttcccggc 660
tggatttttg tgaaggcctg ttttaaattg gactttactt tgccctttt ggggtttctc 720
aantttatc ctanaaacct ttctgacttt tttccatcnc 760

<210> 4621
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(612)
<223> n = A,T,C or G

<400> 4621
cnnagntcnn attnggttaa ngccctttct cgcagganga ncccatcgat tcgaattgan 60
ctctnggctc cngctgngna nagctancnn gntntttnan acagccnagc angcnnggtn 120
gnatcaccaa ncntgggncc ntacnanggc annatttnng gccngntgna tttggnnaaa 180
agattgngna anggcaangn ttctgnctgc ccaaggacaa ntgctgatga gcngaatnan 240
ctgggnacna annngnttca cctgatnggt attnacctnt ganacacatn ngtngccaaa 300
aaatgggaat aaggnnctga ggnactctca gaggcataat gnactatctg ttcgtctntg 360
atanaggnag gtgnatatgt gannagccca taanngagca tatttcacca aaactntntc 420
cctgggtggt accaccttgg tcnaatgtng nagcaattng caaaatngac tangtncana 480
cgatcctacc gtgntctnna ccaactctga tnatgnnnng nnctngtctt cattgcnaaa 540
angaanctca ttttgcnnta ntactacttg aacgacttag agtngacnna tctacccatg 600
nagtcttacn at 612

<210> 4622
<211> 1526
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1526)
<223> n = A,T,C or G

<400> 4622
aggntcttgc ttgncccatn gcgaacgctg gaaaccctcg nncaanagcg cgngaaaccn 60
cngggntaaa tgcccacgnn nannncacgc nannnccccn ttttcncacg cnacccacna 120
gggngcngan nagggncntn anangnacac nnatcngaac cantctntna aagggncgnc 180
naaantnnnc tanngtncgg cntnacgagn gggaactgna acccccgngn nngctacnag 240
nnacacnaga aaacancnct ngggtnaata caacagccaa cngncanncg nntaannaat 300
tcnncancan aggagagaga cnnagnancg cncacacant nnngncccaa cantggnaaa 360
ccacnagcnc ntaanananc gacccangnc anntnnctac aaganagngg cctcacngcn 420
nanncnncac ntcgtncgca cccnatngga accgcaantn ncgaatcann ncnnaggggg 480
ccgccannnc nnacactcgt ntnacgngag cncgctcana naccntacta natnnngggc 540
gcctngngaa caaaacaaca ngccccanac cgccntntag nnnccntnna anagatancc 600
gacggganac tctannacgc ganangnacn gtccaaccac tctagaggga aantgntngt 660
nntananaan cnacaanggg tnttccntnc gcancacaan gccaaaatcn atntatgnac 720
ccatntncnc tccacnggga ncancangga aagaccgagn agcccaanga cnananacng 780

nngtanccnt naaacaaacc anannagaca nnanggnagn canaancccc ccaggcaaan 840
cacnctantn ngcanaaaac nccccctaaa tnancgcgaa ccctttgncg ncnanngnat 900
cggntngaca gnnncanann nncnnncntn nanactcaaa aggnancaan gntnganacn 960
nngcaanaaa ccagcaccgn ggtgncnnaa cactcnggcg tacccnnagc gcanntatat 1020
caccaccccg ggacangaag gtcncgngng natatannaa tcncntnncg gcgacacgca 1080
nctctaaagc nncnnagntn taanangncn natnntaana nnangctctc aaaccnntcc 1140
gcgnnannng ncnctannac tacgcaacca catcaagnnc cgnnatgcgn atccanncgt 1200
tcacataaac ggggngacca cnnngngncn cnancganct ntgtnnacgn gnngcgagnn 1260
ntnnnccgan nngacangac nannngnaaa nacgctaccc tnggcnaang cacacatgng 1320
tgnaccgana antctganta tntncncntn tacacncant aacnacncan nagnntanng 1380
aggnaaccca antgaatnga tanncncncn cgnaacgnng annccccnnnn ganantnaan 1440
ntaagnacan nnanagnntn nangcgcgca nnacctntac naacnncaca nnctngcnnt 1500
cnaaaaganc nacgccnctn tcnccg 1526

<210> 4623
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4623
ttgtnnnncc cttttnaaat nccttggct anttgntctn tttgctngat cccatcgatt 60
cgaattcggc acgagnnngg actaccttnc aaaaccnggt ngggaagcnt gttacagaan 120
tgatntctan tcccctgnat tctggatgct gcagaccaac acctgccnac aanacncana 180
cacacacann caancantat catgtaagac agnncgntna ntnnnnnatt ntnatncttn 240
nncatttacn cantnttgta nantggntca tgngtctata natnnttgta antattntnt 300
gananangac ganantctga atcttaagca tatgctccat cnttnnatat gctntggtgg 360
agaggctngc cntnattcat nttnncatgg agncaagttt aatgcctcta gantacattc 420
tgggcttcaa gcatncttat ttnnaactcc ctgagtgatg ggtggataaa tcnaacattg 480
nctnagtggn ntcaagacaa ctttgntggt ggttttgntc acaatcatga aaatggttnn 540
gccagataaa tattttgata ttagntttcn tttttnatat anngcggtag gtttgaattg 600
nacnttnaaa tgnntngggt tgtnaagaca ntggnttnca atnnaattta tnacatgaat 660
tggngnctcc cctttggnga aaccttaaag aanttntgna tacttcttca taaaagggtg 720
tgngatttng naantttcgg gggttttnaa tttttnntga agcttatttc ntganaatnt 780
acttggntta ccaagcc 797

<210> 4624
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 4624
ttgtnnnncc cttttnaaat nccttggct anttgntctn tttgctngat cccatcgatt 60
cgaattcggc acgagnnngg actaccttnc aaaaccnggt ngggaagcnt gttacagaan 120
tgatntctan tcccctgnat tctggatgct gcagaccaac acctgccnac aanacncana 180
cacacacann caancantat catgtaagac agnncgntna ntnnnnnatt ntnatncttn 240
nncatttacn cantnttgta nantggntca tgngtctata natnnttgta antattntnt 300

gananangac ganantctga atcttaagca tatgctccat cnttnnatat gctntggtgg 360
agaggctngc cntnattcat nttnncatgg agncaagttt aatgcctcta gantacattc 420
tgggcttcaa gcatnccttat ttnnaactcc ctgagtgatg ggtggataaa tcnaacattg 480
nctnagtggn ntcaagacaa ctttgntggt ggttttgntc acaatcatga aaatggttnn 540
gccagataaa tattttgata ttagntttcn tttttnatat anngcggtag gtttgaattg 600
nacnttnaaa tgnntnggggt tgtnaagaca ntggnttnca atnnaattta tnacatgaat 660
tggngnctcc cctttggnga aaccttaaag aanttntgna tacttcttca taaaagggtg 720
tgngatttng naantttcgg gggttttnaa tttttnntga agcttatttc ntganaatnt 780
acttggntta ccaagcc 797

<210> 4625
<211> 1133
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1133)
<223> n = A,T,C or G

<400> 4625
gctacnagcg gngngaaaan ntccnnccct ttnaaagntc cctggttaaa aaaaaccccc 60
ctttttcccc ttttttgggg naaaaccncc ccggtttttc gcnnaaaaan nggncccngg 120
ggggaaacnc ccccaanttc ggganangcg caaaaaaata ncntggnggn accggnnggg 180
ggaagcncnc cncacanncg gagggcacca nttttaccgn gaatantgnn nnaggaanca 240
ngncncnntg nttaccgggc gaagcccgga caangcnntn tgggtnanaa nntgggggng 300
gaaancgnga tccangggnc cnccnacgcg cnaanggtag ggannctnaa acaannnaaa 360
ngtggngtcc gntcnaanag ngtnganccc anaaaaaann ncnnggtaag nntgcgnncn 420
atacanaaca naacnnggaa gcngatgaaa taaannnctg tcatnanana ngnncancnc 480
acctggnnna cngggccggg aacncnanaa gggnacanac tcgnagaaaa aanaanntgn 540
ntngggncgg ggccgtgcna gccacnccaa aacaananga annggatntn gatnnggnaa 600
agaanaaana ttncnaaaan caaannnana atgngnaata tgggggggggg aaggganann 660
cgggganngg gggggatcc nnatcctctg ttaaaaangg agngngggna ngggggancg 720
aaaaccnggn naagganccc annatgtgga anncaggttn tagnaaccaa aaaaancggn 780
nnatctgnag gngncaanan nancnttant cancccnnga nngccntatn ggngcaaggt 840
ggagaaatcn cnggntaaan agggnncccn ggtgggnagt ggtgaaaaaa ancccanggn 900
aaangacnnc aantngggcc ccnnaggggn angaanangg gggaangnta aaaagtggaa 960
accccaaaan nngngaaaag aaggtaattt tttgnnnaga accntttaan cngagggccc 1020
tccaaaaaaa aaatactccg caaatnancn gaanacntna ctaggggccc annnaganan 1080
aactnntcgn gctananana gtgacatccn ataaaaacgg tntgaacncc ncg 1133

<210> 4626
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1195)
<223> n = A,T,C or G

<400> 4626
agggnnnnnn nnnnnnaggg tnnnnnnnnn nnttttttgg gaaaaagncc ccccnttttt 60
ttggggaaaa accccccctt tttgggggaa aatttgggcn cccnnccccn ttttggtttt 120
taaggggnnc ccaaaaannn nnccccccct nnggggggnn nnaaaanannn nnnnnncnng 180
ggnnnncnnn nnnnnnnnnc naaaagngnn nnnnnnnanc nnnntggnnn nnnnngnnnn 240

nnnnttttttt ttgnnnnnnn ccccnannna nnnnnnngnn nnnngnncnn ngggnngngg 300
gggncnnnnn nnnnnggggg ggggggnaan nnngggngnn anacnnnnng ggggggggaan 360
nnnggnnnnn nnnannnngg ncnccnannn aancgnnnnn ananccnnnn nganggnnnc 420
ncnnannang nnngnaacnn naccnnnnna cnnngnngng aannnngnnn gnnancnnnn 480
nnnnnncnng acgccccccgc gccgcnanga ananaggcgg ccaacgnaca ccaggaacgn 540
nggcgnnaaa gcagancagn cgaccnnacg nagngcngag agcncnagna angaacngag 600
naggganngn nacgnaccan nnngnaggcc cncgcnnnag aggngcaagn naaacgnncg 660
ggagancaaa angacacnaa acngncannc gaancaaccg aannangggg nccagccnag 720
acacgangca cacngnaann gagnangnnn acagacgaan nggganacgn nannancaca 780
gnaanngncn naaggccncc gganacaang ggacgnnacn gccngnngcc ncaaaggccn 840
gaagaaannn nngcgagaca nnccngcngn gncnnngnan aagaggnaga cangggncga 900
nnnnangggg aaggacaanc aancnaagga gcgcnngnan cacnnnccan nggannagca 960
ncngacaana annnanaacc gnnaacgncc ngaaaagagn annnnagaaa aanngaangc 1020
aaacngaacc ggcacncncc nnnnnncgac ngcagacaga nnagggnncg gnccnaacnn 1080
ngagggnnnn ncgaganaca ncggngaang cngnagnaac cgagnaaang ncnannngac 1140
nannnggnca ncacncncgn gannggcgcn nanaacgcnn gncncaaaan ncgcc 1195

<210> 4627
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 4627
cttttctaat gcttgggntn gctctttttg caggatccct cgattcgaat acagccctnn 60
cgntgncgct ggntctgatg gctgggntnt tganncgagn ctctngtgna ngtncacacn 120
cnctcacncg acatatggga cattacacac acactcctgc tcaaatgctg tacccatnat 180
gngtggaant tctgnaggcc tnagctctgg cccntanggc ggannnngcn actactttnc 240
atnaccncga caccaaggtg gctatggcct ttccnacttn aactacaacg ttggnngngg 300
canannatcn tnattnanna ncaaagctta ncangatagg agagccnnat aanngactgg 360
gaacntactg nnnacanccn atctgagaac tcatgcggca catggtggag ncctatntgc 420
tcgaagaaac tgtgttaaca tgnactcatg tgcnnggctn acactcntng ctgttncntg 480
cnnatngtat acatgtatga cacttctgtc tgtgnaaagt ggaagcattt ctcatacngg 540
ncctatgtct aatnagttnt gacccngnc tgtagtngct aantgnaaca ggnttgatcc 600
ttacnntgaa taactgtcac atnnttaatg agctggagaa aagtagtcca ancctagcc 660
cttctnggga aagtttgccc aacngtntgg gagtncnaaa ttnctttna ggtnaaggcc 720
cctttntnn 729

<210> 4628
<211> 911
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(911)
<223> n = A,T,C or G

<400> 4628
tantangann nntnnnnnnn nnngtnnnnn atcanatnnn nnntnntnna nngntcnttn 60
tntnggggnt naananangc gnnagtnnnn gattttgaaa acnttataan gccttnangc 120
natcgngttt ntncagggnc ccntcgantn gnnatcggga cgagccggan tacgccntgt 180

ttggggttat gtgggtcggg gtggccggtg nttcngcctt cnggggcctt gcngagactn 240
acccctanan cgtcgctgcc cccagctcan ctcttactgc gggcccgntc cnacgggga 300
ccatnctgtc agggactatg cggcccaaac atctccttcg ccaaaagcan gcgccgnnac 360
cgggcgcatc gnggcggnca ttggcgcant ggtggacgtn cannttgatg agggactacc 420
accaattcta aatgccctgg aagtgcaagg cagggagacc agactgnttt tggaggtggc 480
ccancattnt ggggtgnang gaaannccna cccaaaatgn ntncgaggac tattgctatg 540
gatggnacan aaggcttggt taagaagccc aaaaaaagta ctgggatnct tggtgcacca 600
aatcaaaaat ttccttgttn ggtcncttga gaactttngg gcanaaaatc antgaantgt 660
caatttgggn gaaaccctan ttggattgaa angaaggtcc cnatcnaaaa anccaaaacc 720
aaattttgcc tccccnnttc attgctggng gggccttccc aagnaatttt tnaattnggg 780
aaaaattgga aggnggtttg gaanccnaag ggaaaaattt ttttgggtgg naacttgggg 840
tannttcnaa aggggttttg gtccgaaatc cttggcntta nccttttccn ttnttgcccc 900
aaangggggn g 911

<210> 4629
<211> 944
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(944)
<223> n = A,T,C or G

<400> 4629
aaaannncann tacnnnnnna annnanatnn tancnaaaan ntnattaann nntncgganc 60
ncncnnncnn cngttgattc caancttaat caccntngan tcngatatcc ngagccntcg 120
atgcnncnnt naaacnatnc gnangggnga nnccaaccnn gggtctccna angaacngcc 180
cncnggantg accntgnacc ctancaaagc aacnngnccc anctntttga aagggttcta 240
gggcangcga aaaccnaata agnccccttn aaaaccnaca ngaaactngg ccngatccct 300
naanncnccc caagnntgct nnccaccntn ggnnntnttg cctngnangc tnctgnaacc 360
ccctgnaaca tnaaggangc naccaggnaa aacacaanga cattccnccn ttaacntngg 420
aagnaaaagc cnnanntcta aatacanncc caaccagacc cannnttggn ggggtntggg 480
gaaanacctn ngnggggggg gngnaggngg gnntaattaa ngntaanatt antnnccaaa 540
ggnctcccaa aggccttgnt ttnnnccccc tttnnncaaa aacaaangaa ccnttttttnc 600
nanggnctgn nntannnaaa aatnggggnc cccccaaaaa aaaattncnn tgntanggaa 660
ncaacntagg gcctggncat nncccnttaa tcgggggccn tggaaaaaaa ttntaaaata 720
taaaaaattn cccgggggna ttngnaaacn cnntgccngg nnaatttggg aangnnnggg 780
gtttctngtt naaaantngg tngnattnga ccccanaaat nttttttna ttatncaaaa 840
nnnngtttaa ttcccncnca ttcttaaaaa nttatcgggg aancaaaaan natnggnnaa 900
aaaaacccca nacaaanttn ggggaaaacc ccnnttanaa aant 944

<210> 4630
<211> 937
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(937)
<223> n = A,T,C or G

<400> 4630
gttctaatgc ttggaattna atcgttggaa agagctagng attttngaaa tcggtcataa 60
gtagatgttg tggannggaa nnaannttng gatactgatt ttntaagngt ngttgtgnat 120
tggtcaggaa ttgttnanna ngnanataan anttaantna agatancatg cnantaacnn 180

agatagaaan aannatgggg gagtntntga tnnnnagnaa ntataacntn ataagntntt 240
attnncttac nanggtaaaa gattttntga aatggatnac tnnntnagtt tnnattntaa 300
tatggttnna gaancacttt tttnatgann catngaagat tnntnatann cantatattt 360
tntaannnag ancttanngc atntatggcn atttnatttg tgcttttann taagttttct 420
tggatgnaag ntatatnatt nannatttta tggtanntga ataganantn gtangtaatt 480
ttgatgtant aatagtngnt taatganaan ttttttnttaa nannnttant tnggntnatt 540
natntgnaan tttntnggng ntaaataatt ncnatttntt gaaantntnc ntttaataat 600
tngtatatta accntngaac aagataatat aattgnnaac agntnttatt naatattnta 660
naatanttnt gaatannngt anatngggan ataattattg gggtnnatng tanttgtttt 720
cnacgtaana ttttaatnng tnaaatntgt attnnnaaan ncttgnntgt aantnattaa 780
ngaccgccta natttaaagt tnnttagtna ataaattngg ntttgggnaa naaaatattn 840
tatatttata ananatnnna nnaattnann tctttaataa atttanangn ntntnatata 900
tntaatnata ttanttataa nttttgtata nnagnaa 937

<210> 4631
<211> 937
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(937)
<223> n = A,T,C or G

<400> 4631
gttctaatgc ttggaattna atcgttggaa agagctagng attttngaaa tcggtcataa 60
gtagatgttg tggannggaa nnaannttng gatactgatt ttntaagngt ngttgtgnat 120
tggtcaggaa ttgttnanna ngnanataan anttaantna agatancatg cnantaacnn 180
agatagaaan aannatgggg gagtntntga tnnnnagnaa ntataacntn ataagntntt 240
attnncttac nanggtaaaa gattttntga aatggatnac tnnntnagtt tnnattntaa 300
tatggttnna gaancacttt tttnatgann catngaagat tnntnatann cantatattt 360
tntaannnag ancttanngc atntatggcn atttnatttg tgcttttann taagttttct 420
tggatgnaag ntatatnatt nannatttta tggtanntga ataganantn gtangtaatt 480
ttgatgtant aatagtngnt taatganaan ttttttnttaa nannnttant tnggntnatt 540
natntgnaan tttntnggng ntaaataatt ncnatttntt gaaantntnc ntttaataat 600
tngtatatta accntngaac aagataatat aattgnnaac agntnttatt naatattnta 660
naatanttnt gaatannngt anatngggan ataattattg gggtnnatng tanttgtttt 720
cnacgtaana ttttaatnng tnaaatntgt attnnnaaan ncttgnntgt aantnattaa 780
ngaccgccta natttaaagt tnnttagtna ataaattngg ntttgggnaa naaaatattn 840
tatatttata ananatnnna nnaattnann tctttaataa atttanangn ntntnatata 900
tntaatnata ttanttataa nttttgtata nnagnaa 937

<210> 4632
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 4632
tttngnaaaa annnnncnag agggtttttg ccnaaaaaat nggcccnttt gggggaaaan 60
tttgcaaaaa atccccnttt ttggggnaaa aaggnnggcc nnnannnnnn anngnattnn 120
gangangnna nnaaatnnnn nnnnnngggn ngggngnnan nannntnang ngngaangag 180

ggggnaaant tanannanna gnnnnnnnnn tntanannng nnnnnnngna nnanannggn 240
gtttanannn nnnnnngngn nangnnnnnn gnaangggag gggnnaanan nnnnnanana 300
nagggggggg ggngnanacn nnnntanacg nggnggggnn nnnannnaaa ngagganann 360
ncnagnnaga nannananan gagaannana naanannann angagantan nnnaannata 420
nganaagagg nnaaaggnac cgnnaggngg gggnntgnta nacannntga nntnggcnna 480
ncaacnaatc anacatgact gagaatnggn ntacnaanta nnaanancta nngagaantg 540
ganggaaaga ngantcaaga atanaaaggg acaacatgag naaanaanga cacgntatnc 600
gaanatnnga agaaananaa anagncggca aanatangnt gaatagnaaa tnnnnacgng 660
ataatannan annntanann nagnnaccat ctngaagcaa gagtnactnn gtnaaacgac 720
antanatnng agnagagnnn ntnnnannnt tcnantagng gnagacnacn atannantan 780
tgnntanaat nctncgaaaa tntaactanc naanacntat atgaatgaga nnnatatcta 840
ntnngagaca ntncnacgac nnnnnngtgg naaaannnac annannngtg ntganancnn 900
gatgtgtcac acacangntg ntnnactnta nnnnattaga cntnangana nantatccga 960
gntnnannan naanantnnt gananatcta gaaatatnga tnacanatna aaananatat 1020
ntctagcnca tcatgagata tncnancaga ngctgancng aagatanncg agagtctacn 1080
tanatncana ntaactgnat nnanataagc annatgatan atantgncgt nancnnnagn 1140
taanggagaa gactanntng tnatcnnntn gaaancctaa nanacatgnc a 1191

<210> 4633
<211> 1191
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1191)
<223> n = A,T,C or G

<400> 4633
tttngnaaaa annnnncnag agggtttttg ccnaaaaaat nggcccnttt gggggaaaan 60
tttgcaaaaa atccccnttt ttggggnaaa aaggnnggcc nnnannnnnn anngnattnn 120
gangangnna nnaaatnnnn nnnnnnnggn ngggngnnan nannntnang ngngaangag 180
ggggnaaant tanannanna gnnnnnnnnn tntanannng nnnnnnngna nnanannggn 240
gtttanannn nnnnnngngn nangnnnnnn gnaangggag gggnnaanan nnnnnanana 300
nagggggggg ggngnanacn nnnntanacg nggnggggnn nnnannnaaa ngagganann 360
ncnagnnaga nannananan gagaannana naanannann angagantan nnnaannata 420
nganaagagg nnaaaggnac cgnnaggngg gggnntgnta nacannntga nntnggcnna 480
ncaacnaatc anacatgact gagaatnggn ntacnaanta nnaanancta nngagaantg 540
ganggaaaga ngantcaaga atanaaaggg acaacatgag naaanaanga cacgntatnc 600
gaanatnnga agaaananaa anagncggca aanatangnt gaatagnaaa tnnnnacgng 660
ataatannan annntanann nagnnaccat ctngaagcaa gagtnactnn gtnaaacgac 720
antanatnng agnagagnnn ntnnnannnt tcnantagng gnagacnacn atannantan 780
tgnntanaat nctncgaaaa tntaactanc naanacntat atgaatgaga nnnatatcta 840
ntnngagaca ntncnacgac nnnnnngtgg naaaannnac annannngtg ntganancnn 900
gatgtgtcac acacangntg ntnnactnta nnnnattaga cntnangana nantatccga 960
gntnnannan naanantnnt gananatcta gaaatatnga tnacanatna aaananatat 1020
ntctagcnca tcatgagata tncnancaga ngctgancng aagatanncg agagtctacn 1080
tanatncana ntaactgnat nnanataagc annatgatan atantgncgt nancnnnagn 1140
taanggagaa gactanntng tnatcnnntn gaaancctaa nanacatgnc a 1191

<210> 4634
<211> 756
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 4634
acttagangg ntgaagtgaa anncccttct gcaggaagcc catcgattcg aattcggcac 60
gagagcagac gttgaaggca ttcagtataa antttttcga acatttcacc atggagtcag 120
ggttgatggc atagcttgga gcccagagac tagacttgat tcattgcctc cagtaatcaa 180
attttgtact tcagctgctg atatgaaaat tagattattt acttcagatc ttcaggataa 240
aaatgaatat aaggttttag agggccatac cgatttcatt aatggtttgg tgtttgatcc 300
caaagaaggc caagaaattg caagtgtgag tgacgatcac acctgcagga tttggaactt 360
ggaaggagtg caaacagctc attttgttct tcattctcct ggcatgagtg tgtgctggca 420
tcctgaggag acttttaagc taatggttgc agagaagaat ggaacaatcc ggttttatga 480
tcttttggcc caacangcta ttttatctct tgaatcagaa caagtgccat taatgtcagc 540
acactggtgc ttaaaaaaca ccttcaaagt tggacccgtg ccggaaatga ttgggtaatt 600
tggggatatt actcnggcca agttattcct caaaataaga gacccgttca catggatccg 660
agcctgctta attcangggg gnccacaatt taggggaaaa tctggttnca acccactggg 720
ttatncctgg ccaaaatggg ccaagnccag tttnat 756

<210> 4635
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 4635
gnnnannnnn cnngnnnttt naannccttn tttcaaatgc ttggctactc gttctttttg 60
caggatccca tcgattcgcc aatggatgca gganaactga gatgggattn ccncacgttg 120
cccaggctgg tctcctgagc tcaaagcaat ccanattgct gggattacag ctgngagcca 180
ccgtgcctgg ctgagatgac ttttaaaaan ggactnctct aaagtagaag gaagggtgga 240
attgtatgca caagaagaaa aaaacctgna agaaaaacat actaaagagg ctggagtgca 300
atggngcgat cttggctcac cgnaacctnc gcctnccggg ntcaagtgat tctnctgcct 360
nancctccca ggtagctggg attacaagca tgggccacca cgcctggcta attatgtatt 420
tttagtanag acggagtttc tccatgttgg tnaggctggt ctcgaactac ccgacctcag 480
gtgatccacc cacctnggnc tcccacagtg ctgggattac aagcatgagc caccgtcccg 540
gnctccctgt nncagnntct ataatntgtt cntattatat tctgggtata tgtnggnngt 600
gtgattattc atgtgganct attntcacat tctttgnatt aactatnatn gtccttnaat 660
ggtntaaana naaagtttca ttcctacaaa agnnggtttt ggtccaaata accncgggtt 720
ttcaaggtta accaatcntt gaaaaaaaaa accttnantt cnattntaaa aaatnaacca 780
ttttaaaant tngccnantn ccantttaaa acattaaaan 820

<210> 4636
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4636

ttctaatgct tggnttnaaa ccctttttaaa nccccttgcac ttgctctttn tgcaggatcc 60
catcgattcg gagaggagca ggtgcagtga ttcataccca ctctaaagct gctgtgatgg 120
ccacccttct ctttccagga cgggagttta aaattacaca tcaagagatg ataaaaggaa 180
taaagaaatg tacttccgga gggtattata gatatgatga tatgttagtg gtacccatta 240
ttgagaatac acctgaggag aaagacctca aagatagaat ggctcatgca atgaatgaat 300
acccagactc ctgtgcagta ctggtcagac gtcatggagt atatgtgtgg ggggaaacat 360
gggagaaggc caaaaccatg tgtgagtgtt atgactattt atttgatatt gccgtatcaa 420
tgaagaaagt aggacttgat ccttcacagc tcccagttgg agaaaatgga attgtctaag 480
ccaaaagaaa gtctaattat atacagaaga taaagctaaa cgtaattatt atttaaatga 540
aagctatttt tttaaatgaa ttgaaatttt tcatgatgct actaatttgc cactaaatac 600
tgcaaatggt caccctgnat ctcttctgac attgggatgt tatttgctta tattcttata 660
attttnaaat gaaggcacag tngaaatgga aaattttatn ctcnatggtt cctggttatt 720
tttaaatcct taaccancaa aattttggcc ttaantttct ttttatatat acccncnn 778

<210> 4637
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4637
ttnaaaatcg cttggcnact cgctctttct gtnggatccc atcgattcga attcggcacg 60
agccaaaatg gggtggggcg cagtggctca cgcctgtaat cccagcactt tgggaggccg 120
aggtgggcgg atcacgaggt agggagatca agaccatcct ggctaacacg gtgaaacccn 180
ggtctctact aaaaatacaa aaaaaaaaca aaaaaaacta gccaggcatg gtggcaggca 240
cctgtagtcc cagctactcg ggaggcagag gcaggagaat ggcgtgaacc tgggaggtgg 300
agcttgcagt gagccaagat cgtgccactg cactccagcc tgggtgacag agtgagactc 360
cgtctcaaaa aaaaaaagaa aataggcaca ataagtaata catttctgcc caagtaagag 420
ccttcccttt tgtggatgta atgaaaatat cttcaagcac tttataaata aattatatgt 480
ctgatactag ccttccattg cctggatcac atctgattgt cctggtaatt tgagaaaagg 540
gtagcccctt ggtatggata gtagcttgat gacatggaat tcanggaaaa gactatgatg 600
gtgtcacttg taactgcttt tggtgctgta aaatggcatg gatttaagaa gagaattggc 660
tgggtgccgt ggcttacacc tgtaatccta cacnttggga ggccaaagtn aggctgcttt 720
gacccagaat ttcagaccaa cctggccaan 750

<210> 4638
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 4638
ttnnnnnnnn tnttcaaatc ctttgctact tgttcttttt gcaggatccc atcgattcgg 60
gcggaggagc agaagctcaa gctggagcgg ctcatgaaga acccggacaa agcagttcca 120
attccagaga aaatgagtga atgggcacct cgacctcccc cagaatttgt ccgagatgtc 180
atgggttcaa ntgctggggc cggcagtgga gagttccacg tgtacagaca tctgcgccgg 240
agagaatatc agcgacagga ctacatggat gccatggctg agaagcaaaa attggatgca 300
gagtttcaga aaagactgga aaagaataaa attgctgcag aggagcagac cgcaaagcgc 360

cggaagaagc gccagaagtt aaaagagaag aaattactgg caaagaagat gaaacttgaa 420
cagaagaaac aagaaggacc cggtcagccc aaggagcagg ggtccagcag ctctgcggag 480
gcatctggaa cagaggagga ngaggaagtg cccagtttca ccatggggcg atgacaatgt 540
ttgccacagc cttntgcctg gaacctggct cgtgcttgtg accagaaggg aaaaggcngc 600
tgttttggct ctttcttccc cgcaanggac cccgnttgac cccgccttgg attggaagaa 660
gccaaaaggg agaaccccct tttccggaac ccggtttaac aagntccctt ggtnttttg 720
ggcannggnt tttngggaaa cccttgaang gggccctttt ttcccttggc aacnttaaaa 780
angncacctt gnccnttggn annaacancc attccggngc ttcntcc 827

<210> 4639
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 4639
ttnnnnnnnn tnttcaaatc ctttgctact tgttcttttt gcaggatccc atcgattcgg 60
gcggaggagc agaagctcaa gctggagcgg ctcatgaaga acccggacaa agcagttcca 120
attccagaga aaatgagtga atgggcacct cgacctcccc cagaatttgt ccgagatgtc 180
atgggttcaa ntgctggggc cggcagtgga gagttccacg tgtacagaca tctgcgccgg 240
agagaatatc agcgacagga ctacatggat gccatggctg agaagcaaaa attggatgca 300
gagtttcaga aaagactgga aaagaataaa attgctgcag aggagcagac cgcaaagcgc 360
cggaagaagc gccagaagtt aaaagagaag aaattactgg caaagaagat gaaacttgaa 420
cagaagaaac aagaaggacc cggtcagccc aaggagcagg ggtccagcag ctctgcggag 480
gcatctggaa cagaggagga ngaggaagtg cccagtttca ccatggggcg atgacaatgt 540
ttgccacagc cttntgcctg gaacctggct cgtgcttgtg accagaaggg aaaaggcngc 600
tgttttggct ctttcttccc cgcaanggac cccgnttgac cccgccttgg attggaagaa 660
gccaaaaggg agaaccccct tttccggaac ccggtttaac aagntccctt ggtnttttg 720
ggcannggnt tttngggaaa cccttgaang gggccctttt ttcccttggc aacnttaaaa 780
angncacctt gnccnttggn annaacancc attccggngc ttcntcc 827

<210> 4640
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4640
tnttttcaaa tngattggct acttgttctt tttgcaggat cccatcgatt cggaactcag 60
aacactgagt ccctatttga tgttaaaata tgaccgttaa acttctgggt aagataatga 120
atggcactat ggtttatact gtttctgttt tatgggctct tccagagacg tgaactggaa 180
aacnctctgc agtgtctggg attcgctcag tgctgcaggg gagggcaggt gtgaggggaa 240
tggccctgga gggtgatggg gctggggcat ccgatgcagc tttatagttc tgtaattacc 300
acttttaaac tttttattac gaaaaatgtc aaggaccctg gaattacggt gaggtaggca 360
ggataatggc ccccaagatg cccgtgttgt gacccccaga ccttgtgagt gcctcacatg 420
gggagattgt cctaggtcat cttgcangcc cagggcagcc ccatgggccc ttaaagcttg 480
agagcctttc ctgctgagtc tgagagatgc canaagcagg agaggttaga acccgangag 540
ggcccgcacc tgcgctgctg gccttagagg aaggcccgan gantgtggtg gcccctaagc 600

agcttnggac tggggacctt cgtcccaccc tgcaaagaaa ctggaattct ggcanaagcc 660
cccattatgg aggaaaaggg aaggatcctg cccttggcag naccctttgac cctntggacc 720
ttcacaaatt gtnaagcctg agggttttgn gtangnaccc atnaaaaan 769

<210> 4641
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4641
tnttttcaaa tngattggct acttgttctt tttgcaggat cccatcgatt cggaactcag 60
aacactgagt ccctatttga tgttaaaata tgaccgttaa acttctgggt aagataatga 120
atggcactat ggtttatact gtttctgttt tatgggctct tccagagacg tgaactggaa 180
aacnctctgc agtgtctggg attcgctcag tgctgcaggg gagggcaggt gtgaggggaa 240
tggccctgga gggtgatggg gctggggcat ccgatgcagc tttatagttc tgtaattacc 300
acttttaaac tttttattac gaaaaatgtc aaggaccctg gaattacggt gaggtaggca 360
ggataatggc ccccaagatg cccgtgttgt gacccccaga ccttgtgagt gcctcacatg 420
gggagattgt cctaggtcat cttgcangcc cagggcagcc ccatgggccc ttaaagcttg 480
agagcctttc ctgctgagtc tgagagatgc canaagcagg agaggttaga acccgangag 540
ggcccgcacc tgcgctgctg gccttagagg aaggcccgan gantgtggtg gcccctaagc 600
agcttnggac tggggacctt cgtcccaccc tgcaaagaaa ctggaattct ggcanaagcc 660
cccattatgg aggaaaaggg aaggatcctg cccttggcag naccctttgac cctntggacc 720
ttcacaaatt gtnaagcctg agggttttgn gtangnaccc atnaaaaan 769

<210> 4642
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4642
ttatttgaac cctnnccent tcaaactcct tgttcttttt gcaggatccc atcgattcnc 60
ttttccatga ctccaggctg tgcctctctc catgtttggt cccttctgtg cccatggtca 120
ggagctattc gggtggcacc tngctggcca ggctctcccg agtcgtggca cctccacaat 180
gtgaattttc tgaatcccta ttccaggatt nctgggaata atgtttactt ctanaatggn 240
cctgntgtaa accatctcat cnaggtgtgg taaagccatt gnatgatgag gggactgcca 300
tggaaaggag agtttgttac ttacggttct gagaggaggg gccacatagg aaagccccac 360
ggtgggtcac aaagcggaag gagggagggg aacgtgtggg cttgnttttt ctngcacatc 420
tctgaagagt tnttaatctt cactcatcat gtgccaagaa gtgncatcat aaaangaaat 480
atnttttttt cctaggagca gngttaaaat ctgggtcaca ttcctgacca aggacagcat 540
cctgccttnt gcccatncnc ttcagttcac aaaagctgac attttaaaca aatcatgact 600
cacacgtntt aattgggtat aaaaaatgtt gnggtacacc tggttagata aaaacttaan 660
ggccacaang gangggcccc aaggtanncg atgtcaagtg tgtnaaaggg gcctggattg 720
ggccntggnn aanggatttt tgggcaaaac ccaaaanttt ttgngccccc nn 772

<210> 4643
<211> 710

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 4643
nnaacngaac cttgcanttt gacttccttt acgcatncgc angatcccat cgattcccag 60
anatgcncac cagccctgca cggnaggttt ttcctgaacc tggctcatgg atanagaanc 120
ncacgagggc ataactgcct gtccgngaaa anccaagcta nccnaccttg gtcnnctttg 180
ntgtgnnncn nnntntgcna agntggtgaa aaagaaagag atccngacca nagaacttct 240
nnanggatgg acntgctnac tggggaatgn gncgcccncn ntacttgcac antanattcg 300
aaannngtgna ggntacacga cattntgacc cgctcaaatt gcagggctcc tnacgcnacg 360
cttctntagc tttctacgtt tcnttntcnc cacngtngac gcntttcccc gggaagntct 420
aaataaatgn gctccntnta nnnntncgat tcnatcgcta tacagncncc tgaanaccng 480
aaaaaatttg cnggnntgtg gtgcacgtaa anggccnctn ncngggaaca gttattgacc 540
tntncgatgg aaancanggn tttaaactgg ntcnnngngg aacntgaaca nactaacctt 600
cnagtcnatn ttttttggtt acggaanntn taantgggct nncttnanaa tctctgatan 660
natggtagnn gactncacga ttaanctaca atcnttcttt tnggggggaat 710

<210> 4644
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1315)
<223> n = A,T,C or G

<400> 4644
anggngnnnt tttttnnnnn ttttttttnn cccccnttnn tctacnnnnc gtgggaaaaa 60
aaaatcccnn cnttttttg ggggaaaaaa aaantccccc ccccccnnnt nncggnncnn 120
nntttttttt tgggggggnnn ngtnnaaaaa nngnnnnnnn ncccccnnnnn nnnnnnnnnn 180
nnnnnnttgn nnnnancngn nnagnnnnnn nnntnttnnn nnnnnnnnnn tnnnncnnnn 240
nnnannnntt ttgnngnngn nnnnnnnngg ggggnnttttt ttttttttgg ggnnanggnn 300
nncnnnnnnn annnnnnnnn nnnnnnnggg nnnnnnnnnn nnnnngnnnn nngggggggg 360
gnnnnnnnng ttttttttnnn nnnaannggnn nnngnnnnnn ngnggggnnn nngnnnnnnn 420
nannnnancn nnnnnnnnnn nnnnnnngnn nnnnnnnnnn nnanannnnn nnnnnnnnnn 480
nngcgnnggg gggggggggg ncnangcngt naggggancc acgagnngga ggngtggggc 540
cannatgtcc ttngancgcg tctgcnagna acnctncgag gatgancnan agnnccannn 600
anggnncngg ccagnntagc ncagnnttct nannnctaan tgngcggatc anggggnntn 660
tncctaatag ngtgnnggct aanannatgn atggngnnac tgatggngaa acanntctna 720
ncgtantncc angtagtgaa tgctggntta ntnnnttag nggntnanta gcannngcgg 780
nnaacnnann gtggntcntn nannnnantt gnnannngnn gggnttcnnc ntnngnagan 840
ngntntnagg ngncnnnncg ntaaagtccn nnannangtg tntaanctnn ctnaancggg 900
tatannnnnn ntnnnnnggg tnnngnnntt cnnnannngn nngnnannnt gnnnnnagtn 960
tgngnntacg annangtnna nnancangnn annnattgtn nntnngnnnn annnannntn 1020
tctgaactcg tacnnngana ncnnnggtnn nngcctcaca nngtatngta ngctgnnagn 1080
gnantatann ntaagnantn ttcntnnncg anttnntnnc gtnaacgacg atntnngtan 1140
ncncgnntaa nngcntaann gcanatangt natagngaga ttcctnagtn gaccnaggnn 1200
atgatatnaa ngntcangna nnnannntnn nctntngact anangagann atgananatg 1260
gntnnctngt gnnnagnatn tgatntctcg ntgctcncna gnaggntaac acacc 1315

<210> 4645
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4645
ttgaaannnc cnttagnnnt tnnttnncnn nctctcaaaa ccctttggca actngctctn 60
tntgcaggga tcccatcgat tcgaattcgg cacgaggctg ccacaggggg gcaatcttta 120
tttgtcttac ttcctacccc ttccctgttc tgcctcttta actcagttaa gttgttctgt 180
ttgggacctg gaaaagaacc caaagaaaac ctgaccggac aggttcattt ctggaatgca 240
gaaaacattt taaaggctag atttttagaa tattctcaac tagcattctt tccattgatt 300
tgaaggggaa attaactatt ataatctctt gaatccaaaa ctggatatta agaactttcc 360
cccttactaa gtttaagact tttgtcatgt ggtgagtcaa ataagaccat tttgattgta 420
aaccataaaa tagttcagca agtagcccac agttctggcc taacagcaga cttgctgntt 480
tcacttggta tcctggagtt gggttgctaa ccttaatttc tatgatgttt tctaaaatga 540
aacttgataa agtagaccac cagctgcacc cgtgttttct gnaaaagtat tggtagtaag 600
tggccaagag acttgaggaa aataccagat tttttggnta ccttggnctt ggtttaagtc 660
ttaaaaaatt aaagataaca ttataatgna gaatcanatg gggcatannc cttggaaagc 720
ctncccttgaa aaaggnntta aatatttang aagcctttaa aagacactta aatggaccct 780
naaagacanc n 791

<210> 4646
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4646
ttgaaannnc cnttagnnnt tnnttnncnn nctctcaaaa ccctttggca actngctctn 60
tntgcaggga tcccatcgat tcgaattcgg cacgaggctg ccacaggggg gcaatcttta 120
tttgtcttac ttcctacccc ttccctgttc tgcctcttta actcagttaa gttgttctgt 180
ttgggacctg gaaaagaacc caaagaaaac ctgaccggac aggttcattt ctggaatgca 240
gaaaacattt taaaggctag atttttagaa tattctcaac tagcattctt tccattgatt 300
tgaaggggaa attaactatt ataatctctt gaatccaaaa ctggatatta agaactttcc 360
cccttactaa gtttaagact tttgtcatgt ggtgagtcaa ataagaccat tttgattgta 420
aaccataaaa tagttcagca agtagcccac agttctggcc taacagcaga cttgctgntt 480
tcacttggta tcctggagtt gggttgctaa ccttaatttc tatgatgttt tctaaaatga 540
aacttgataa agtagaccac cagctgcacc cgtgttttct gnaaaagtat tggtagtaag 600
tggccaagag acttgaggaa aataccagat tttttggnta ccttggnctt ggtttaagtc 660
ttaaaaaatt aaagataaca ttataatgna gaatcanatg gggcatannc cttggaaagc 720
ctncccttgaa aaaggnntta aatatttang aagcctttaa aagacactta aatggaccct 780
naaagacanc n 791

<210> 4647
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1427)
<223> n = A,T,C or G

<400> 4647
nnttntttng gaaaaanttt tccccctttt ttactnntaa nacctccggc cattggccct 60
gggccagggg gttccgggga acnttcttta aggnangggg naatncccce ccgggggttt 120
aacccgggaa ggcccttccg gaaaatttnc cggcccccct taattaaggt gggaagnttn 180
tntttatttt aacaaaattt ncaacttggg gcccggtccg gtttttttaa caaaacggtt 240
ccggttggaa cttgggggga aaaaaaaacc cccttgggcc ggtttacccc ccaaaacttt 300
aaatcggccc tttggcaagc caacaatccc ccctttttcg gcccaagcnt tgggcggtaa 360
ataagccgaa aagaanggnc ccggcaaccg gaatccggcc ctttcccaaa caagtttggc 420
gccaaccctt gaaatnggcg gaaatnggaa cgccgccccc ttgtaagccg ggcgccaatt 480
naanccgccc ggccgggggtg gttgggtngg gttaacgccg ccaagccggt nggaanccgg 540
ctttacaact ttggnccaag ccggcccccc taaaccggnc ccggctttcc ttttttcggc 600
nttttttctt ttccccttttt ccctttttttc tttcggnccc caacggnttt tcgggccccn 660
gggcnttttt tttccccccc gggttccaaa aaaangggnc ccnttttttn nttttttnna 720
aaaaaaaaaa aaaaaaaaaa aanatcnggg gggggggctt tnccccccttt ttttaagggg 780
gggttttccc ccgnaaattt tnaaaatngg gccnttttttt taaaccgggg ggaaaacccc 840
nttttnggga aaancccccc cccnaaaaaa aaaaaaaacc tttttgggaa anttttaaag 900
gggggggttn ggnaaaatng ggggtttttc cnaaacccgt ttaaaanttn gggggggccc 960
caaantttng ggcccccccnt ttggaaatta aannaaaccn ggggnttttt ttttttccg 1020
gnccccccnt ttttttggna aaccctttttt tnggggaaaa tttcccccaa ccgggttttc 1080
cnttttttna aaaaaaaagg gggggggaac ctttnttttt gggttttccc cnaaaaaaac 1140
tttgggggaa aaaanaaaaa acaaantttt taaaancccc cccnttttnt ttttttttg 1200
ggggggggggc cccnnaaaat tttcccnttt ttttttnggg gaaaattttt ttaaaaanaa 1260
aaaggggggg ggaaaatttt ttttttggnn ccccgnaaaa tnttttttcn ngggggnccc 1320
cnttaatttt nggggggntt ttnaaaaaaa aaaaaaaatt gggggggncc ttggggnntt 1380
ttttttaaaa cccnaaaaaa aaaaaanttt ttttnaaaac ccgcccg 1427

<210> 4648
<211> 1505
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1505)
<223> n = A,T,C or G

<400> 4648
tttttnccca aaaaaaaaaa tttnggnccc cctttttttt ttttnaaaaa aaaaaannnn 60
ngnccccnn ttttnnaggn nnnnnnnntt tttttnnnaa aaatnanncc ccccnntnan 120
nttttttttn cccttaaaaa aanagnaacc ntttnggggg caaaaaaaat cccntccnan 180
aaaattnnaa tnccatacaa ttaaatnnag naanngnncn nnaangnnnn nnnaaannnn 240
nnnnnnaaaa tntannnang nnnnancnna naannggnnc ngnaaanngg ggacaccnng 300
nnnnnntggn nnggntnnaa atgnccnnnc cnnnnaaggn ggntngtncn aaannnnttn 360
gnaannncac attngnnnna ncnanaaann gnnnnnntnn acctnaacan tggggannnn 420
nnnnnnntnn naanacnnca tnananaaan anganntgcn caannnaann aagngnnaan 480
annnanatnn acnnnaagca cnaacnncna ncnanaaaaa aaaccnngnn acacntgnta 540
ccactcangg ctngnaccnt tatgngnnca atngatgnnn annggncgca ctacannnan 600
nngnnccaag gnccacagan ccacnaatca nacntngtaa tntaatgcan cnnngncngc 660
aatannnaga ccacnttnnn natgacanng caaanacngn cannntanca annggaangt 720
agtnacagta acatanganc ctnaantaac ctatagcngg gatnccagaa ctaaaatact 780
ntanctacat gnaacnttat naataagaan annggatnaa atannatagt aatgngnntc 840

ttanatnata tctcacaaac ncgatcntag aaataaataa atcgtagnan ttnttatatc 900
natanaanag attcatatan antnatatat ctatataatc antatataaa caacatatag 960
nnntataaaa anaaatacta aaaantcaan anntanatta nactcnnaan ngagggcaaa 1020
ataanncgna gnanaatata taagtnnnan tcacatanat nnanaaaaan atatacaata 1080
tanannaaaa aananatang aaaananaaa anctaaatan naacnnatan atataaaata 1140
tantcnnaaa acaatatata anatanaaat cnanatntan nganataaag atnaaanana 1200
tnntntaanc ntncnnacac ataatntaan ntaatnnana aaantnanct tanngntgan 1260
aanactanaa anatcnaaan nnnatcaaat atanggnnaa naatatanaa tatataacna 1320
atgngaaaca ttcaaanact annanatnna naaananatc ttaataanaa atatananan 1380
ataanaataa taagannnta aanactaaaa cacctatntc taaagtcact anatcattng 1440
nnanacanat ctataatnna annataaaaa aatatgnnnt nnnanaataa tattntatcn 1500
annnc 1505

<210> 4649
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4649
ttantcatcn ctcttgtttg antnccntac aactacttgt tctttttgca ggatcccatc 60
gattcgaatt cggcacgagg tgagccgagg ttgcgccatt gtactccagc ctgggcaaca 120
agagcaaaac tctgtttcaa aaaaaaagaa agaaagaaaa ttacctggaa ttcaatattg 180
ccatcggctg atttaattct aatatgaana aaggggcagt gtgatgtgcc atggagcatn 240
cacaacctgc catttcaccc accaacctta gaaagccatt gaaaagagtt gtttttaatg 300
gtgtttttac atccagcttc ccacacctca aatacttggg gtggaattgt taatctcaca 360
ttgcagtaca atgaaaatag tggaatggaa atcaagttat aaaatggagc taaatatttc 420
ttctgcttgc ctctgagttg acaagatacc ataagatact gtacatgagg ctgggcgccg 480
gtggctcacg tcttatttct tctgcttgcc tctgagttga caagatacca taagatactg 540
tcatgaggct gggtgcagtg gctcacgcct gtaatcccag cactttggga gggtgaggtg 600
ggcagatcac ctgaggtcgg gagttcaaaa ccagcctgac tgacatgnag aaacccccctc 660
ttttctaaaa aatcaaaant agcccaggcc ttggtggtgc atgcctataa ttncagctac 720
tcnggaagct tangcangga aaaaaaaaaa aaatttccn 759

<210> 4650
<211> 917
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(917)
<223> n = A,T,C or G

<400> 4650
ccncctnntt tccccccttnn nnggtgggna aaanaaccnn ctttttttgaa aaaaaacccc 60
ccccttttttt tggnaaaaaa ccccccgttt tacnanaaan acnggncncg agggggganc 120
ccccncncnc ngggnngggn gngangcnnn nactngncna cnccacggcn naacacncaa 180
aaactnggnn gnggattnta ttgagnggna aaagggacga nggctgngca nagnnagaga 240
aannggggcna gcccggnaac gacgganggg naaaaatatg gggggnnnaa ngacaaaagg 300
aggccctgcg cnaanccgaa ccatnannan ncccacgtag cccggcccna ccnacgaacc 360
aannnctaac agaancaana tgnggcnggg anaaacagnn naggnaaaca aggattcgag 420

aggangaggg gggaacaagc antngtgggn gangtnanan aacangggga ttttcnaatg 480
agaanaatgc anggcngaan natcncgctg ggnatggagg gnacttgcnc cgccagatcg 540
cataaaacgc acgcaactgn gccacaaaca tacggangan tgngcaannc naaannngnn 600
gccccgantn acctgaggag gganctaang ctttgggaaa agaacaaaan acctnggacn 660
ggacaagggn gaaggatgaa cangaagacc cggaaacaag aggaagggga nncgccncta 720
aanntaaaca catccaaang cgnnaagggg aanccttngg ncnaanngag gaaacctgna 780
ccctnacntc caaaccncgn ttttaagaaa gggggaaaac caaccnntga agcnantncc 840
ccccnnnggg ggnaaannaa cnacctgggc ccaaannntt tgaangaacn gananggnaa 900
acnaagggna atggggg 917

<210> 4651
<211> 1282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1282)
<223> n = A,T,C or G

<400> 4651
agnnnnnnnn nattnnnnnn nnttttttgga aaaaaccccc cttttgggna aaaaaanggc 60
ccccgagggn natttnnaat ttacccccтt cntnnttgca aaaanccncn ttttggggaa 120
aaaancccccc cacancgncn nnttttttgng gnngnaaaaa aggnancccg nnnnnnnangg 180
nanctannnn nnnnncncnn nggcnnanng nnnnngnggn cnnngnnngn cnnnnnnaan 240
nnnnnnnggg gttttttnan nncncnnnan cnannnnnnn nannnnnnnn ngnnnnngng 300
nncnagnncg ngggggggnnn ncangnanaa nngggccnng nnngngnang naanngnnna 360
gngccaanna cnannaagnn nannaangga ccnnnnnana nnnanangcc ncccccccccc 420
canaacaagn acccatgacn nnnaatgacn aggncctagg nacccanaan ccaagcccna 480
ngnananctg ncncaggcca ngaacaccag ccaaagaann gagcaccccn aaccacnagc 540
ncancnaggg aaancaggnn caaaggncaa aggnaactaa ccaaanaacc cccantaagg 600
gccaaaaaag cctnggagcn gcgagnanaa nnaaaaangc ctaaggnngc cnanggccng 660
aaaaaagang cgnanaannc aagggaccan aagagnaaan naangnccca antcncannn 720
aannananag ngcncccccа accannaaga tcnnaanccn ggggnannaa acnngancaa 780
tcgnncncnn nncncnannc ggnacnaaan anaaaancgg ggngaccaag nccnaaangc 840
angannanaa aanagntaca ngntcgnnca tnaaaacnan ancacgngaa aancacacnn 900
caanncaanc ngnanannng gggagagnnc acnnaannga nanaaannac nacncaccac 960
anaaggngan cnacnggccn ggannnanac aananggcan aaaanngagn caccgcagna 1020
ancngcgana nngcgcnnca cnanaacgnn agncnnaaaa gaaaganacn aannacangc 1080
anngacncac gancnananc cccaaacnag gnnanacnca anacacntnn ngcaganana 1140
accacnnnag nacacncaca cgctacaagn gnatnanagc nantatagan antacanacn 1200
cnanacanac ngcatnannc acaacnatac ngacanacng canntgaaaa atnnggaann 1260
nanagaacgg agagnacaac cn 1282

<210> 4652
<211> 1282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1282)
<223> n = A,T,C or G

<400> 4652
agnnnnnnnn nattnnnnnn nnttttttgga aaaaaccccc cttttgggna aaaaaanggc 60

ccccgagggn natttnnaat ttacccccct cntnnttgca aaaanccncn ttttggggaa 120
aaaanccccc cacancgncn nnttttttgng gnngnaaaaa aggnancccg nnnnnnnangg 180
nanctannnn nnnnncncnn nggcnnanng nnnnngnggn cnnngnnngn cnnnnnnaan 240
nnnnnnnggg gttttttnan nncncnnnan cnannnnnnn nannnnnnnn ngnnnnngng 300
nncnagnncg ngggggggnnn ncangnanaa nngggccnng nnngngnang naanngnnna 360
gngccaanna cnannaagnn nannaangga ccnnnnnana nnnanangcc nccccccccc 420
canaacaagn acccatgacn nnnaatgacn aggncctagg nacccanaan ccaagcccna 480
ngnananctg ncncaggcca ngaacaccag ccaaagaann gagcaccccn aaccacnagc 540
ncancnaggg aaancaggnn caaaggncaa aggnaactaa ccaaanaacc cccantaagg 600
gccaaaaaag cctnggagcn gcgagnanaa nnaaaaangc ctaaggnngc cnanggccng 660
aaaaaagang cgnanaannc aagggaccan aagagnaaan naangnccca antcncannn 720
aannananag ngcncccccа accannaaga tcnnaanccn ggggnannaa acnngancaa 780
tcgnncncnn nncncnannc ggnacnaaan anaaaancgg ggngaccaag nccnaaangc 840
angannanaa aanagntaca ngntcgnnca tnaaaacnan ancacgngaa aancacacnn 900
caanncaanc ngnanannng gggagagnnc acnnaannga nanaaannac nacncaccac 960
anaaggngan cnacnggccn ggannnanac aananggcan aaaannngagn caccgcagna 1020
ancngcgana nngcgcnnca cnanaacgnn agncnnaaaa gaaaganacn aannacangc 1080
anngacncac gancnananc cccaaacnag gnnanacnca anacacntnn ngcaganana 1140
accacnnnag nacacncaca cgctacaagn gnatnanagc nantatagan antacanacn 1200
cnanacanac ngcatnannc acaacnatac ngacanacng canntgaaaa atnnggaann 1260
nanagaacgg agagnacaac cn 1282

<210> 4653
<211> 1356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1356)
<223> n = A,T,C or G

<400> 4653
tttggggaaa aaaaaaaccc ccccccttttt tgggggaaaa aaaaannngnc cccccngaaa 60
ggngnnnctt ttttggnaaa aaaaccccccc tnttttgttt ttgcnaaaaa aaaccncccnt 120
tttggggnaa aaattncncc ccnannnncg ncccnantnt ttgnnngaan nggaanangn 180
nnananncccc nncnnnnnng nnnnnnnnann nnnnnnnanga nnnanaanag gnnnncannn 240
nannnnaann ananaatnnn ntnnannnnn nnnnggggggg ggcnnatann anannnnanna 300
aaaaannnnna annaaaacca nangggngna nngnnaanan acnnnanaan aannannnna 360
nnnanangga aaanannnnaa nnaaannana aganannnnn nacaaannen naaannngna 420
acnannnnng naaacanagn aaanaggaan nnanacnacn caaaaaaaca cngggacnaa 480
naacangana gnatnnnaca agncaanaca acgaagaaga cnnataaaca ngcacaaaat 540
aancaangaa agngnaangn gnaaagnacn anggnaanaa nngaatacag gaaaantnan 600
ataaagacaa ntnngaatag nnaacancaa atcaanaang naaggaacnn nctanacaac 660
acccaanann gaaancaaga tanatactag anntanggna caanagnaaa aannannnnnn 720
cangctanga ggannngngnn aaacgaaaan nacaacaaaa cgacaagaga ncacaangan 780
gaataaangc aananacacn aanacgaaan caaaagaang nacccncnan gaanaagaga 840
cnnnngaang aancgaaana nnaacgcnna cagacnannt aaggacncac ataangaanc 900
anagaaanga cgancnagan aggggnaaan anancnccag nagctaacaa aacagnaaaa 960
tanngcacnt annagatnna nnanangaaa canacaangc aagngcatnn aaaganaaag 1020
aataanaana cannnannan aggccnaaga annnaaanac naaaatanaa aagnacatag 1080
acatanacca nacagnnnaa aangaanagn tacgnanaca anaaaanaaa atcacaaann 1140
ccnaaacgcn acnactaaca nacatatcaa cnngacannn nnnacagcaa aacagannnn 1200
anganaaanc acnnaannaa gagaatanna canaccanga atatgtanan acannnacaa 1260
gagacgnaat agnnaacaga natcacaaca cacnnanata tacgcnaatn nncacgaann 1320
gatatgaann acacannacn cgtcacaatc acancc 1356

<210> 4654
<211> 1356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1356)
<223> n = A,T,C or G

<400> 4654
tttggggaaa aaaaaaaccc ccccccttt tgggggaaaa aaaaanngnc cccccngaaa 60
ggngnnnctt ttttggnaaa aaaaccccc tnttttgttt ttgcnaaaaa aaaccnccnt 120
tttggggnaa aaattncncc ccnannnncg ncccnantnt ttgnnngaan nggaanangn 180
nnanannccc nncnnnnnng nnnnnnnann nnnnnnanga nnnanaanag gnnnncannn 240
nannnnaann ananaatnnn ntnnannnnn nnnnggggg ggcnnatann anannnanna 300
aaaaannnna annaaaacca nangggngna nngnnaanan acnnnanaan aannannnna 360
nnnanangga aaanannnaa nnaaannana aganannnnn nacaaanncn naaannngna 420
acnannnnng naaacanagn aaanaggaan nnanacnacn caaaaaaaca cngggacnaa 480
naacangana gnatnnnaca agncaanaca acgaagaaga cnnataaaca ngcacaaaat 540
aancaangaa agngnaangn gnaaagnacn anggnaanaa nngaatacag gaaaantnan 600
ataaagacaa ntnngaatag nnaacancaa atcaanaang naaggaacnn nctanacaac 660
acccaanann gaaancaaga tanatactag anntanggna caanagnaaa aannannnnn 720
cangctanga gganngngnn aaacgaaaan nacaacaaaa cgacaagaga ncacaangan 780
gaataaangc aananacacn aanacgaaan caaaagaang nacccncnan gaanaagaga 840
cnnnngaang aancgaaana nnaacgcnna cagacnannt aaggacncac ataangaanc 900
anagaaanga cgancnagan aggggnaaan anancnccag nagctaacaa aacagnaaaa 960
tanngcacnt annagatnna nnanangaaa canacaangc aagngcatnn aaaganaaag 1020
aataanaana cannnannan aggccnaaga annnaaanac naaaatanaa aagnacatag 1080
acatanacca nacagnnnaa aangaanagn tacgnanaca anaaaanaaa atcacaaann 1140
ccnaaacgcn acnactaaca nacatatcaa cnngacannn nnnacagcaa aacagannnn 1200
anganaaanc acnnaannaa gagaatanna canaccanga atatgtanan acannnacaa 1260
gagacgnaat agnnaacaga natcacaaca cacnnanata tacgcnaatn nncacgaann 1320
gatatgaann acacannacn cgtcacaatc acancc 1356

<210> 4655
<211> 1326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1326)
<223> n = A,T,C or G

<400> 4655
ttttggccna aaaaaaaann nnggccccnt tttggggggc cnaaaaaann nnnggggccc 60
ccnnggnggn gnnnnntnnt ttnnnnngnt tttnccccnn nnntcttttt ctngggnaaa 120
aanccccccc tnntttgggg gaaaaaaann ccccccccnnn nngnnnnntt ttttttgggg 180
ggnaaaaaaa nnnnnccccc cnngnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngggggnttt tttttnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnggg ggggnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnngnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng 420
ggggggggng gngnggnngn nngcnnngnn annggnngca nngngnngnn nannggnnng 480
gnnnnnnngn annnnnncnn ngnngnnngn nggnnnnggg ncnannnngg cnnnnnnggg 540
gggnannngn nnnnggnann nnannnnggg ggannnggnn cgnngngnnn nngnganann 600

nnggnngnan ggannnannn annnnnnnng gnanccnnac nnannnnnnn nngngcggga 660
ancnnncnnn ngnnncnnng acnngggnnn gnnnnnnnnn nnnnnnnnng aanggnnnnn 720
nnnngnnnnn nnngannnnn nnnnnnnngn gncnnngncg nnngaagnng nnnnnnngnn 780
nnnnnnnnnn nggggggggn nnnnnnnnng nnnnnngnan cnnnnnnnnn gnnnagnngc 840
nnngnnnnnn ggnnnngcnc nnnnnnngnn nannnngnng nnnannnnnn nnnnnnngng 900
gnnnnnnann nnnnnnnnng nnnngnnnnn nnnnnngnnn nnnnnnnnnn nanagnnnnn 960
nnggngnaan gnnannnnnn nnnnnngngn gnnnncgnng ngnnnnnngg nnannnnnnn 1020
nnngnnnnnn nnnnagggnn nnnnngnnng nnnnngngnn nnnannngnn nnnngngnnn 1080
nanngnnnan nnnnngnnnn nanncacnnn nnnnnnggnn ncgnnnngnn ngnnngnnnn 1140
nnnngngnnn nnnnnnnnnn nnngnnnnng nnnnnnnnng cgnnnnnnnn nnnnnngnng 1200
ngnannnnnn nngnggannn nnnnnnnnnn ngnnnnnann nnnnnnnnnn ngnannnnnn 1260
nangnnngnn nnnngnanng nnnngnnnnn nnnnnnnnng nannnnnnnn annnnnnanc 1320
gcgncc 1326

<210> 4656
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(868)
<223> n = A,T,C or G

<400> 4656
gnnnnnnnnn nnnnnnnnnn ttttgggaaa aacncccttt gggnaaaann ncccggggnn 60
ntttgaaann ccctcctccg gaaancccct ttgggaaann nnccccnngn cngttgggan 120
ccnancgacc cgaatncggc acgagccgag gaccagcgca gcgaggagaa ggctncagcg 180
ngaggccaac aannagancg agnagcagcn gcagaaggac aagcaggncn accgggccac 240
gcaccgcngn ngcngcnggg ngnnggggga acncgggnaa agcaccanng agaagcagat 300
gaggagccgg cangtgaatg gggnnaangg agangagaag gcaaccagan nagagnggac 360
tncattctga gngagangaa cgngccngac tntgacncac ctcccgaagn ctangagcat 420
gccaaggcnc tgngggagga tgaaggagng cgagcctgct acgaacgcgc caacgaggac 480
caagctgatn gacngngccc agngctncng gacaagaacg acggggagta agcaggccga 540
cnangagccc gagcgaacag gacccgnnnc gctgccatgn cngactnccg gaanccangg 600
ggaccaagan ccaggnggac aaaggcaact gccacanggg ncgacgnggg anggccagcg 660
cngaagaang ccgcaagggg gaacccaggn gctnaaaccg aaggggaact ggcnancagn 720
nnnngngggg gggccagcag cnacnnacca acanggggca anccgggaag ggaaaaccan 780
gancaacgcg ccngnangga aggnaccgga accnngnana agaagcaann ngggaacaac 840
anganggggnn ngcanancca tcncnncn 868

<210> 4657
<211> 1319
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1319)
<223> n = A,T,C or G

<400> 4657
cccnaaaaaa aaanangncc ccttttgggg gtcaaaaaaa atcccggccc caattnttnn 60
nnnnnttttt tcaaaanaaa aaaccccccc tnacnttttt tnccaaaaaa aanccgcccn 120
tttgggggga aaaaaaaacc ctccncnaaa anncngnncn tncaattcaa naccnngagg 180
gnnatnnngc cccnaaanna nnccnnaang ngnnncanta gnnnnaaana nnngannnnn 240

nncncaatnn nggnngnccn nnanacnnnn nnnnnngncn nannaannan acnnnaaggg 300
gggaaantnc ntnnnnnann annaaagggn gnnnnccaaa annnnaanan nnngnggnaa 360
nananannnn gnagnacnng aaaccncnan antncnnnnn naannacann naccnannan 420
ancnnnncan nnnccnnnnn naanannann agnaaangnn annaaancga ganancnaaa 480
cnnnnanana acccacannc accagaacac ancagnacag ncaaancntc acatananaa 540
angtgcanta cnncnatatc ccgacacann ccnanagacn aaatacaacn gatnnacnca 600
nnanannacc nancnaaaaa acaancacaa ancaangana aaanaacann naacgacact 660
aanaagcaca nanacgngcc nacaanaccc nacacaaacc nnacngccaa nnancnaaaa 720
ctaaaacnga atatcacnna cacnnnnnaa ctncnacaaa aacnaccacc ngnaaaaacn 780
nnnngnaaag gngncancaa atngaaaaaa cnaaaaaaan nnnaccangc acannaaaac 840
nnntnnacna tgacanacaa anaaananac nntaaaannn aacaannaca acncnaacan 900
nttaaannca aaannatanc ccgcagcnaa attaatangn nanancntca canannaaan 960
naacnaaccc cantgtanan aaaccncaat ancaccacna natanncaaa ggtaangana 1020
aacccanaaa naccanatnt naaacaagcg ncaaaccana acnngaccca tccaannatn 1080
cnaacacaaa naaanatatn catnaaacac acacaanacc acctcnnnaa nnnacntacc 1140
ntanaaacat ncaaaanctn natngacacn nacaaaacag caccanntca anaccnaana 1200
nactacacag agatacanag acaanntnnn nncnnagaaa ccacacgacc catnanacnn 1260
acctntcnca cnacncnntc nancgcggga gnnaaaaata anacacanaa acacacnca 1319

<210> 4658
<211> 1088
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1088)
<223> n = A,T,C or G

<400> 4658
gaggnntttt tccaaaaaaa nnccccagag ggnnnatttt tgcaaaaaac gccntttggt 60
tttacaaaaa nccgcttttt gggnaaaatt ttngggccng naaaaagnna tntntnggga 120
nnnanaanaa nnnnnaannng ganggganan naaannannn annnnnaann nannnnanag 180
anaanagggn gnnnangnna nnttttnnnn nanngganggg ggaannannn acnannnggg 240
nganannann nnnannnnnnn annngggngg gnnnanannn aannangngg gnaganagan 300
nnannnngnn nananaccnn agnnnannna ganannnaaa naaannccnn annnananaa 360
gaaacanaag nnnaaaanac aggaaaaaaa aaganaaant acngnaanta anacaaaaaa 420
aacaaaacna ncatngnanc aggnananag tagcaanaac nganngaagg canaagagag 480
aaagncntga cnaaagagga ngagntnntt naactaagan agagannnac ngaantgnaa 540
acangaancn natganaaaa aaggntnnga canaagaaga angcnanaca nnaaaangan 600
ngaagnatga aagaaaaann naaagcntng gnanaaaaaa anagagatna anaaaaaatn 660
aaaagaanag aannaacnna atntcngnna ancncgagaa aaatggnnaa gaaacangaa 720
naanatacaa gaacnaaaga nagnncggaa anaaganagg nanaaagaac nanatataan 780
nganaagnta nacanggata acangnagat ganaangagn acannanaga nanatgnang 840
ngacnanagg gagantaaaa anntaagnna nnaaananan aagcnannga gannnnaccn 900
gnanacgggn annacataac anactnannn nanaaaatac nnnaaaggga gananacgca 960
naatnnngca naannannan anaacgaaga atangaagng annncaggan agatagaaan 1020
anganntaga acngaaanna aantnnncaa ancaatnana aanagncann gnacatanaa 1080
aacaacnn 1088

<210> 4659
<211> 1267
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1267)
<223> n = A,T,C or G

<400> 4659
aggtttttt gcaaaaaaan ccccccnttt ttggncnntt tttgcnaaaa aanncgcctt 60
ttggttttna aaaacacccc ccttttttgc nnaaaattat acgcncagtn annatgnnnn 120
ntatnnnnnn nnannnanaa nnnnnnnannn aananaanng ggngnnnnann annnaaanna 180
naannnannn ttttntannn angnaaatan nnannnnnan atttnttnnn annnnnnnnn 240
naannntnnn tntnaaaann ggngngnana nnannacnna nnntnanatn nnaananann 300
nnnnnnannn tanngaggng annnnnnana naanngannn anaannnnna nnancanaat 360
nnnnaanant nnnngnanaa naantaanan nnacnaatca naannnaana nnnannnaan 420
nnannaataa nncaaaaaaa aagccanann tatannaaaa cntcaatann cgtanaanaa 480
gaanatnacn natannaana naanactacc aaaactnaan annnnaatnc atatcnaana 540
taactannaa nngaatnata nancaganaa nnnagnanna atnntannan naaagcannn 600
ngnnaanacn tcaagcntag antanntaca aatacnnnaa atantaacnn nanananaaa 660
anaannnnnn naacatncna agannnnana acaaanaann gnacaannan taacnannan 720
anaaananat ataaacanna ananannnaa taaataaant atanataang ngntcanata 780
tnnaagacaa ncnaantaaa cntnnancat nancgaacta taaatagaan nganatatga 840
nataanatna nntanaacnc natatatanc nagtanatnt nanancacta nanatacnan 900
nanaaantcn tactanacan naacanctnn aactnanann antannnagn aacacncata 960
nancgannna atancnctna anntnnanna ctctgaanaa annacanata aataactata 1020
nangctagnn acantncacn tagtannnaa tatntanana ttcnctanat ananntntan 1080
atcactacgn actcanacat anaaannaag tcttanagan aaatatcact caanaannna 1140
ngggncacta tntanncatn anncanaata nnncancata tannacanat aaantnnana 1200
tcnnaangat naaatntnan angacnanac anatangtnt atnnctaanc tgtaaataca 1260
ncacgaa 1267

<210> 4660
<211> 1235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1235)
<223> n = A,T,C or G

<400> 4660
gtttgaaatn cctttggnat ttctaatgct tgntnancgn cattnatatn tgnngantng 60
nttggaantn ngnacganga tntnntaaag catgtttana agtnattana atggacggtt 120
tgncnnntaa ngattgggna taantggtgg naanantgga ntganttngt attgnttnga 180
tttgagttat ctnattgaga nctntannnn ataaggagag ttntattntn ataaagntan 240
tagnanntan nggatcctta tntatcttng nnatgtntta aannganata atantntttn 300
naattttacn attntagana ttnatnggtg aaactttatc atatgntnna aattnntann 360
ttnnnaatct ntgcaaaaaa ttantagntt tantntatnc atntcnantt tttntatttn 420
ttnctnntna ttannnttan tntgatntat gnanttcnta atttcnttta tnatcnctnt 480
tactnatata attttnannt anaaanaagt aatnnannat ntttgaatat atntntatca 540
naatatgnga nattataatc atttatnttn natagtatan ntnatgnatg tagatatata 600
tctatagntg ntntnntatt ntttngatct gtatagncat cngnactaat atantttgtg 660
atanagctat tatggggant atntaaaact attgatgtna aaaaaacata nntttataag 720
antatannen nnacgttata atagntctct gtacctatta ngcnattnga ttanaanatt 780
nntcnngata cctatntgta tnncatnaca tattatatng gnganttatt tnnttgtata 840
taggattact atnttatgat anannntctt tntataatna aatatnatan tgagggtntn 900
ctttntacag ttgtanntna aatatnagcg ntnttaataa natagagnga tatatgacat 960
tnatttatat atattaagan tgtaagattn natnaagnag taatatcann atatagtatc 1020

natnantgtc ttncatggat gntatggata cttagtgntn gtgaanttta tnnttatata 1080
tanntntnat tngtaaaata tactatantn tatatatctg atatatataa ngaatgnatc 1140
tatnatnnac nntataatat cntgtacgat taaaanattn aatatatgtn tatatntgaa 1200
tatgtataan naanctactg tctattgnta cagan 1235

<210> 4661
<211> 1235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1235)
<223> n = A,T,C or G

<400> 4661
gtttgaaatn cctttggnat ttctaatgct tgntnancgn cattnatatn tgnngantng 60
nttggaantn ngnacganga tntnntaaag catgtttana agtnattana atggacggtt 120
tgncnnntaa ngattgggna taantggtgg naanantgga ntganttngt attgnttnga 180
tttgagttat ctnattgaga nctntannnn ataaggagag ttntattntn ataaagntan 240
naattttacn attntagana ttnatnggtg aaactttatc atatgntnna aattnntann 300
ttnnnaatct ntgcaaaaaa ttantagntt tantntatnc atntcnantt tttntatttn 360
ttnctnntna ttannnttan tntgatntat gnanttcnta atttcnttta tnatcnctnt 420
tactnatata attttnannt anaaanaagt aatnnannat ntttgaatat atntntatca 480
naatatgnga nattataatc atttatnttn natagtatan ntnatgnatg tagatatata 540
tctatagntg ntntnntatt ntttngatct gtatagncat cngnactaat atantttgtg 600
atanagctat tatggggant atntaaaact attgatgtna aaaaaacata nntttataag 660
antatannen nnacgttata atagntctct gtacctatta ngcnattnga ttanaanatt 720
nntcnngata cctatntgta tnncatnaca tattatatng gnganttatt tnnttgtata 780
taggattact atnttatgat anannntctt tntataatna aatatnatan tgagggtntn 840
ctttntacag ttgtanntna aatatnagcg ntnttaataa natagagnga tatatgacat 900
tnatttatat atattaagan tgtaagattn natnaagnag taatatcann atatagtatc 960
natnantgtc ttncatggat gntatggata cttagtgntn gtgaanttta tnnttatata 1020
tanntntnat tngtaaaata tactatantn tatatatctg atatatataa ngaatgnatc 1080
tatnatnnac nntataatat cntgtacgat taaaanattn aatatatgtn tatatntgaa 1140
tatgtataan naanctactg tctattgnta cagan 1200
1235

<210> 4662
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4662
tntaatttna tnctntannc cnttcaactn cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgagatgagc ccatgaactt ccccagaaac tcattgtctt ctatttccgt 120
aacagctcct aaccactagt cgggctttgc acacagcgac ttctccgtaa atgttgactg 180
cagggcagaa agaaaggcta aaagttctta ggagaatgtt tgcctttgca tgtatatgct 240
ggcgatgcta ataagtccca gctagacctg gcagtgagta agttcagggg tggcaattta 300
attttcttgc tattagtaaa acaaacagta ggtgggatgg gtggtaagct taaatatctc 360
tgacgcgcca tttaaaccat ccatcccacc tgtgggttgt ctgcacctgc tcttttgttg 420

cggtgggtct cctaatttgc ttttcagtcc ctttcatctt atcattgttc tcaaaggcac 480
cgctctgcaa accacataaa ggcctttcaa cttncgctgc attttgtttt attcagccaa 540
ttgactagta ctgtcagcta attggattgg aaatgtaaaa tgaaagctgt attattcaac 600
tgccaacctc ctcacttggc anggagtggg tgatgctggt aattgaccan aagtgtaatt 660
gctctgggtc tgcctctgga tttaacaatg aaccctggga gggctttctn tganacactt 720
gatacctgct ttttttttt tcccnggggn 750

<210> 4663
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 4663
gttnnnnntt tgaatccctt ngctctngnc tttttgcagg atcccatcga ttcgcactaa 60
aaataggttt gttgtttaag aagacacctt ctgagtattc tcataggaga ctgcgtcaag 120
caatcgagat ttgggagctg aaccaaagcc tcttcaaaaa gcagagtgga ctgcatttaa 180
atttgatttc catcttaatg ttactcagat ataagagaag tctcattcgc ctttgtcttg 240
tacttctgtg ttcatttttt ttttttttg gctagagttt ccactatccc aataaagaat 300
tacagtacac atccccagaa tccataaatg tgttcctggc ccactctgta atagttcagt 360
agaattacca ttaattacat acagatttta cctatccaca atagtcagaa aacaacttgg 420
catttctata ctttacagga aaaaaaattc tgntgttcca ttttatgcag aagcatattt 480
tgctggtttg aaagattatg atgcatacag ttttctagca attttctttg gttcttttta 540
cagcattgnc tttgctggac tcttgctgat ggctgctaga ttttaattta tttggttccc 600
tacttgataa tattaaggga ttctggattt caggttttca tttggtttgc ttttggtttt 660
ttcctcatgt aaccattggg ggaanggatn caaggaattt gacacaaang gnggggaataa 720
aacattaatt ttgngcccnn nnnaaaanan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnna aacctcggnc cttntaaa 808

<210> 4664
<211> 1008
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1008)
<223> n = A,T,C or G

<400> 4664
ccgcncncnn cnnngnnnnn nannnnnnng nnnngnnnnt ttnnttttcn annccnttca 60
gcncccttgtt catgatgcag gatcccatcg attcgaacnn gcacgngtct atcnctnngt 120
gaagcactac cccngntacg ggttncacca tgcctgggca gntnggccat gggcccggtc 180
acgaacanaa cgggcctgga cgcctcgccc ctggccgcag atacctncta ctaccagggg 240
gngnactccc ggcccattat gaactcctct taagaagacg acggcttcag gcccggctaa 300
ctctggcacc ccggatcnag gacanntgan gancaagngg gggtcganac ntnngggaga 360
cggagttgca tagacgcang gggagaagaa attcataacn ccccggnccn aacaccncna 420
aggacagcag tcgttttnac cccgntgcan cccgttctcg gtccnaacag agggccacca 480
cagnatncnc cacanttcta tattanggag gaanancggg gaaagaatgt anaattttga 540
anaataancc tactggtggt ccaaanaact gnngccgacn cncttgcntn gtgnnaaagc 600
gnccntggca ngattnctng aaatttnntt tggttggttg ggnaggnncc ccccntccca 660
tttgccncgn ccggttggca aggggaaatt tcctttcctt tcaccctcan tatnaaaagg 720

ttttncctgg gagntngaac tttcgggggg ttaaaaaanc ccattgtggg ngcccaataa 780
anccangacn ccncttaggg ggggaagncc cntnccgggn ganntncgtg tccanaacgn 840
gngggncngt atctttngtg gggncttntt tcnaaccnat tttgggggga ggangcnggg 900
nntaaccctt ggcaaccncc cggaaacatn gggtgatgtg nnaaaacatt tncggatgca 960
naatattttg gcncccgggg ggngccnnan tatatttgng gannagcc 1008

<210> 4665
<211> 1690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1690)
<223> n = A,T,C or G

<400> 4665
ccnccnnann acnnngcnnn nnaaannnaa nnncnnnann nngaaacnnn nnannnnnna 60
nngcagngnn ngnannnang cgagnnancn gaanangacg cannnnannn nngaangann 120
nnnncncgng gngncntgna nannnacaan aggcngnana cacnnngnng ananggcnc 180
annnacacgn ananannnac canaacannn cngctancan naagannnca cnnnanagca 240
nnncncagng ngngggancc gagngcgnga cntnnnccna ttttttggga aaccgggttt 300
tgggccaaaa acgngcttgg ggnagannct cacaaacgca cnnaggagac gagagagngn 360
agccgngncn acgntnnacc agctacagcg aantcncnng nncgccnagn ngnaanacga 420
gacnnnagna gnnacnacca anannaccan gggaaggggg gggaaccnnn cgnccaanag 480
nccnnacacn nantaaanan ngagngnngt aagacancca ngnnncaaan tgnnaannnn 540
anncaanacn aaaanaancc nnnnacctat acnnagncac aacaactnan ancnnagaan 600
annannntnt cnannnnaan caaaaaagaa tcnncannta nannagnanc ganncgcgca 660
nanccncaan gtannaanna tantannaca cgacgganac atngnanacn angcgnanan 720
acangnnnan cncancanan ancnangaag atntntncga gaacgcgctg cngnatacac 780
ancngctnnn gacngnnnaa cnccagnann angcntnang acncacnnna cacacncgcn 840
annncancng cacagcgnng atanacgaac gnnncaagct cnagnaanac aggtangcca 900
cangnagagn anaccnnnna cnagnnaaan aagncacatc accgatanat nctcgannnc 960
naccagcnnn nnncnagnga cnncaccgcn nnnanctctn ncnacangnn nangnaccnn 1020
ngcntncaca cgnanaanaa tctncnccca gaagcncggc ncncgncacg anacgcagag 1080
naccgncagn atnantnacg cgcaaanagc gacanaangc angnccaaga tanagnngan 1140
agcgnnatan nagcacgtcn acacagcgan acnngaagan cacgngnann tnntnagana 1200
cannnngnaa nacagcctnt gacgnaacac agcannacat cnnacagctc ngacancacg 1260
anananggac agncncngan acacgngaac nacncaannn cacannagan gagancannc 1320
tnannnagat gananctanc anncacgnga tnncactata tngannangn ncgntgccgn 1380
ngnnancagc agccngcacc ancncctact tgcntactnn atncnatgag caccaacgan 1440
ataagannac cacnccctnn ancgannana tgaacacatn canntaaann gnagantnan 1500
tanacgacnn ncncannnac ngangtacag nnnnntcacc anngncgnnn gatangctcn 1560
nntatactaa cnnananana gnnnnaacaa cagaaanaan cacnagacag agaagcnnnc 1620
ncatgatnnc ccactcacga ncnnnngagt cngcngannn tccnnnnctn atcnncagaa 1680
ntncntnncn 1690

<210> 4666
<211> 839
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(839)
<223> n = A,T,C or G

<400> 4666
tttgaaaacc tttnatacaa gctacttgtt ctttttgcag gatcccatcg attcgaattc 60
ggcacgaggg nanggannen ncangatctt gganggntcn cnctggncga gaccaaggaa 120
aagcntcggn cgatnggngn cccaatgcan ggtgatgggg atggcttnna nnctantgnt 180
gnnccnatat ccannatnan gctggtgcat aangnantcn nnnnccctaa nnncgcngaa 240
nnntggncng atnttgntcn ngacnntgtg nnnttnnatg tnnacactgt nnttnnnaac 300
nntgttcgnn ccnncnangc tgatnntgac ctggncaatg acctgctgtg gnantgctgg 360
nttcactgnt cangtgacta tattnatcca tacannacca attnaccttg ctcatatcat 420
ccntagnntt gnattgccac tcgngattnn attgcantnc aangcnnanc tttaactann 480
ngggatnata aatnntccgc ccntttnttg nnanaaaaat cttgnaaagg aanagcccnt 540
tacacttgta aggaaattnn ggccccaacc tnagcaaatg gcatanaaaa ggttggcngg 600
ncangtccna tanaaanctt nnangannat tgtcaaaaca nntnnacctt tctggncatg 660
aatcattggn tgttgnttnt agactnccaa gagtntgggg nggntntttt tcaaaaannt 720
tttananaga acntttgcnc ggaactgttc agngggcaat caacttttte ncggnaaggc 780
tttagactgc taaaatggan tttnttncct tataactgcc ancccaaatc tttatncct 839

<210> 4667
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4667
gnnnnnnnnn nttntnaata tacagctctt gttctttttg caggacccat cgattcgctc 60
angcnggngc ctccttcccc agntttgntg cctgagtgga accagtgcnn acncacagnc 120
cggaaaaggc gcatctaacg cntnttnagg ctnnggtaac tgcggacaag ttgctttnac 180
ctgatttgat gatacatntc attaaggttc cagttataaa tattttgcta atatttatta 240
agngactata tgaatgcanc tncattnacc agtaacttat nttaaatatg cctagtaaca 300
catatgtngn ataatntcta gaaacaaaca tntaataagn atataatccn gtgaaaatnt 360
gaggcttgat aatattaggt agtgacaatg aagcatggna gaagctgtna cagattacat 420
anagaataat gaggagatta tgatggaacc ttaatatata atgttgncag cgattntagt 480
tnaatattcg atactgnnat ctatctgctg tatatggaat acttttaatt caaacgctga 540
anacgaatca gcatttagtc ttgccaggna cacccaataa tcagncatgt gtaatatnca 600
caagttcgtn tctgttttgg gttatnttga tggtnggttt gtgnttttgc tttaagttgc 660
atgagctttn tgcnggaaat antcactcat cccactccag ataaggggnt tagtcatnag 720
aaagtctgtc tggntgatga tggatacggg gccaatcttt ntccccttte tggttaatag 780
tcattacatt tctatgccnn nnnaggancn natccataac tttancttaa ngtncacatt 840
ggnatttt 848

<210> 4668
<211> 1690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1690)
<223> n = A,T,C or G

<400> 4668
ccnccnnann acnnngcnnn nnaaannnaa nnncnnnann nngaaacnnn nnannnnnna 60
nngcagngnn ngnannnang cgagnnancn gaanangacg cannnnannn nngaangann 120

nnnncncgng gngncntgna nannnacaan aggcngnana cacnnngnng ananggcnc 180
annnacacgn ananannnac canaacannn cngctancan naagannnca cnnnanagca 240
nnncncagng ngngggancc gagngcgnga cntnnnccna ttttttggga aaccgggttt 300
tgggccaaaa acgngcttgg ggnagannct cacaaacgca cnnaggagac gagagagngn 360
agccgngncn acgntnnacc agctacagcg aantcncnng nncgccnagn ngnaanacga 420
gacnnnagna gnnacnacca anannaccan gggaaggggg gggaaccnnn cgnccaanag 480
nccnnacacn nantaaanan ngagngnngt aagacancca ngnnncaaan tgnnaannnn 540
anncaanacn aaaanaancc nnnnacctat acnnagncac aacaactnan ancnnagaan 600
annannntnt cnannnnaan caaaaaagaa tcnncannta nannagnanc ganncgcgca 660
nanccncaan gtannaanna tantannaca cgacgganac atngnanacn angcgnanan 720
acangnnnan cncancanan ancnangaag atntntncga gaacgcgctg cngnatacac 780
ancngctnnn gacngnnnaa cnccagnann angcntnang acncacnnna cacacncgcn 840
annncancng cacagcgnng atanacgaac gnnncaagct cnagnaanac aggtangcca 900
cangnagagn anaccnnnna cnagnnaaan aagncacatc accgatanat nctcgannnc 960
naccagcnnn nnncnagnga cnncaccgcn nnnanctctn ncnacangnn nangnaccnn 1020
ngcntncaca cgnanaanaa tctncnccca gaagcncggc ncncgncacg anacgcagag 1080
naccgncagn atnantnacg cgcaaanagc gacanaangc angnccaaga tanagnngan 1140
agcgnnatan nagcacgtcn acacagcgan acnngaagan cacgngnann tnntnagana 1200
cannnngnaa nacagcctnt gacgnaacac agcannacat cnnacagctc ngacancacg 1260
anananggac agncncngan acacgngaac nacncaannn cacannagan gagancannc 1320
tnannnagat gananctanc anncacgnga tnncactata tngannangn ncgntgccgn 1380
ngnnancagc agccngcacc ancncctact tgcntactnn atncnatgag caccaacgan 1440
ataagannac cacnccctnn ancgannana tgaacacatn canntaaann gnagantnan 1500
tanacgacnn ncncannnac ngangtacag nnnnntcacc anngncgnnn gatangctcn 1560
nntatactaa cnnananana gnnnnaacaa cagaaanaan cacnagacag agaagcnnnc 1620
ncatgatnnc ccactcacga ncnnnngagt cngcngannn tccnnnnctn atcnncagaa 1680
ntncntnncn 1690

<210> 4669
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 4669
ttttcataca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgaggtga 60
ggctctctta aaaaatttaa aaatactgaa gaaacaaagg gaggagtttg tagaatctgg 120
agtggaggaa acttctgtgt caccaaacac agaaaccatc aaagaaaatc tttcacttcc 180
aaaattagtc tatagaaaaa aaaaagaaaa tcttaaccca aataagagac tgaggcaaga 240
gcttcaatca atcgaggttt actgagccag agttggagcg tgccaggaaa gcaacacaag 300
tcaaagaaac gtctgtggcc tgtgctctcc caagaagttt tcaggaggct caatatttgt 360
acatttcttt aaaggggaga agacagtgag gcaaatggtt atgtttttgt gagactctta 420
attagtgtcc cgtaaatcta agctatatgg aagatagggt gaacactgga agaacaggga 480
gtaacagaag accaattatg cagaggtctc aggttaggtg gaggaatgat tgatctcatc 540
ttatccttgt ctgcacctgg gcagatnaac tttgtaattg acattgtcag tgtgaaattt 600
acaagacttt tggttttagg agttaggttt aggttgccag acctaaagtt gcagttgaca 660
tgtncttgtt ttataggagg atntccatnc tgaaagttta gggactggcc aanaattact 720
ggtgagcaat ttgtgantgc ggcnctggag atcatgangc tttttgcctt tttgngggat 780

<210> 4670
<211> 712
<212> DNA

<213> Homo sapiens

<400> 4670
gttttagagc agctcttgtt ctttttgcag gatccctcga ttcgaattcg gcacgaggaa 60
ctagtctcga gtttttttt ttttttttt atgatattac accataggtt ttattaacga 120
taaatgtttg cattactttt aaaagcttag ctcttactaa gcattcttta acaaaagcta 180
ataagcaaga aatcatttgc catacggaaa ctatattcac aaacaagact ttaatccaat 240
attgaaagct aaagaattag aaaaaataca aaacactgct atgagtcaat tgaactgcta 300
tcattgaatt tgctgcattt agaatgacat aaacatactg aacataaaaa caatttatg 360
gatttattct ataagactag cattaagaat gacatacaat ttgtgatttc ctttaaaaat 420
aatttttac aacagaatcc atttgaacaa agggtctttt tttcccctca tttgagggga 480
agacaatcta tgtttcccaa acagatcctc ctttcatact aaaatagcaa actgtggcct 540
cgatctcctc ttcccagatg ctacttatag atgactttgc ataataactt aattagaatt 600
actttctgg taacagtgtc acggccataa ataatcagtt tttaaaaaac aaacatcaag 660
ggcaaatcta gaaaacttcc tttaaaggaa ttacccaaac ccagcacaca tg 712

<210> 4671
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4671
gtnccctnta aaacctttt tanaatctnc ttgttctttt tgcaggatcc catcgattcg 60
ttcatatttg aagaattaga aatgaagtcc gttcagattc tccaaagaac ctccagccac 120
tggtggggga cattcttaat tcacattcct atcagttggt atctcctgtc cctgaagaca 180
ctgatgaggc ttgggaggag aatcccacct ttccctgcag ggggttaggc tgggcagggc 240
agggaggtga gggcgctggt ccagaacact ggcaagggat gggaacctaa cttcttctgt 300
gcttctgatt tgcccttgca ggtgtttttc caggtctgac cacctggccc tgcacatgaa 360
gaggcacctc tgagggagca gagaggtgga tcctgtaggc taaaaggctt ccaggctgag 420
agcccggccc gtggaaggag ggatgcatgc tttattaagg ctcttgtttc acctggcagt 480
gtactgtatc aacgtataat acagaaaaaa aatctcttta aggtcctcct tcacaaagac 540
atagagtgaa actcccttta catgtcagta tttgttcaac actttaggca acttgactgt 600
cagtgttaaa atggaaaaca ggaaaatgga aaaatctgac caattctgcc ccttgagact 660
ttcatataga ccttgcacaa caattgtata gatcacacac cggcttgtat ttaatatgta 720
acattttcnc acatnttaaa gatccagaag ttttaaaaaa cccccaatgt taatgtattt 780
gc 782

<210> 4672
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4672
gagccnttga ancctatnta caatctactt gctctttttg caggatccca tcgattcgaa 60
ttcggcacga gaaaaaacct cctgggactg ttgcaaggat gaaatgaagg attgagggat 120
tgagggattg ctgagctgga gctccaggtg tcctatcttt ctcagtgggg tggcacggag 180

cggggccgcc tccctcttct ctccaggcag gtggggctgt ggttatgcga tagggtctcc 240
cttccctcca gcccatgcca gaggagcttg taactcttta tcctcatggt gcccactacg 300
agtcatactc ttccccatgc tgctcattct cctgggcccc atccactcag ccaaagcaga 360
atgcagggtt tcctgcctga caacccttct cacctcccaa gtcccacttt tgaacaagct 420
gatgattctg aaactggccc aatttcctaa caagccggat gcttgagaaa cctacatttg 480
gacaatgaga ggctgctcct gcngcctgcg ggccacctcc tcttccttgg ctcctgcttt 540
ctttttagac tatatcaacc tacaacttta ctcgggaaga gggacagggg tggacctgag 600
tttcgtctcc tgtctctctg gctgatgtca cctggaataa agccttcttn cctggccaaa 660
naaaaanacc nnnnnnnanaa nntacttcna gcctctanaa ctatagtgag tcgtattacg 720
tnnaanccaa cttgaataag anacattgat gaattttgga ncaanccnca actntgaatg 780
ct 782

<210> 4673
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 4673
gnttnaganc aggctctgtt ctttttgcag gatccatcga ttcggtttcg gcanctgggg 60
tnggnactgt tgataggang atgtnttaag gaaatgctaa aattgggcac cctgccccca 120
acttcaaagc cncagctgtt atgccanatg gtcanntnaa agatatnacc ctgtctgact 180
acaaaggaaa atntgttgng nncttcnttt accctcttga cttnaccttt gtgtgcccca 240
cggagatcat tgntntcagt gatagggcng aanaatntaa naaactcaac tgccaagnga 300
tnggagcttc tgtggattct cacttgtgtc atctagcatg ggtcantaca cctaagaagc 360
aaggaggact gggacccatg aacattcctt tggtntcaga cccgaagcgc accattgctc 420
angattatgg ggtcttaaag gctgatgaag gcatctcgtt caggggcctt tttatcattg 480
atgataaggg tattcttcgg cagatcactg naaatgacct ccctgttggc cgctctgtgg 540
atganacttt gagactagtt caggccttcc aggcactgac naacatgggg aagtgtgccc 600
agctggctgg aaacctggca gtgatccatn aagcctgatg tccaaannag caaagaatat 660
ttntccaagc ngaagtnagc gctgggctgg tttantgcca ggctgc 706

<210> 4674
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 4674
gtttaatcag ctcttgttct ttttgcagga tccctcgatt cgaattcggc acgagtattg 60
gtttgtagaa atgctactga tttttgtacg ttaatttttg tatcctgaaa ctntactaac 120
gtcatttatc aggtcttttg gagggattgt tagggttttt ttaggtttag aatcatattg 180
tgagtgaaca gagataattt gacttcctct ttttctattt agatgccttt tgtttctttt 240
tcttgcccga ttgctctggg taggacttca gtactatgtt gaatagaggt ggtgagagtg 300
ggcatccttg tcttgttctt agggggggatg ctttcacctt tgcccattca gtatgatatt 360
ggctgtgggt ttgtcataga tggctcttat tattttgaga ggtatgttcc ttcattgcct 420
agtttgttga ggatttttat catgaaggga tattggactt tatcaaatgc ttttctacat 480
gtattgagat gatcatatgg tttttgtttt taattctgtt tatgtgctaa aactattccc 540

caaaatcaaa gagaaaggat ttctccttaa cacattctac gaaaccagta tcatcctgat 600
ccaaaatctg gcaaggacac caacancana aaanaaaaaa aaaaaactng gcctttaaaa 660
actttngggg ngccnnnttn cgnaanatcc nnnncttgat nagatccntn 710

<210> 4675
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4675
tttgaaanct tttatacanc tacttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgaggtgg ggacgagccc tccccatcct gagtccacag ggagatccac agctcacgga 120
gcctggccgc ggacccctcc caccctgcc ttgccggccc ctgcacattt aggatatgct 180
cctgggtggg gactgggctg tgcccagggc ctctgtcccc caggatgtct tgtggtgcgg 240
gtcggccgtt ctgcccccca gggcaccccc tgttgtaggc actggctagg gaggggcagg 300
cctccttcct gcccctcgag acactcttgg gagatgcatt ttccgtctgg ctcacagggg 360
gagggtgagg ctttgcaccc cacccctgnc cangccactg tgatggtggg tgctgctgaa 420
ccccggggc agcaggagcc aggcangtga tgtctttgtc tcggctccca cagnagaacc 480
aggtgagggg gcgcctgcca aggccanaac catgtggggc aaactgaacc ctgttccnct 540
gtggcggcat gccccgatct tttacacact ggtgaccctn anaaaagatg taagatgnaa 600
cctggccggg gtttnttnan cccgactttt aanttgnccn tncaaacctt tggcttgaac 660
ttgggtctgt ttacctaana aagtcccaca aggtgcctta ttnntngggn tttntttnna 720
naancnccnt tnnnnngnna nnnttttttn natttnnnnn aaaanatnnn aaannngnnt 780
tt 782

<210> 4676
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 4676
gttnnnnntt tgaatccctt ngctctngnc tttttgcagg atcccatcga ttcgcactaa 60
aaataggttt gttgtttaag aagacacctt ctgagtattc tcataggaga ctgcgtcaag 120
caatcgagat ttgggagctg aaccaaagcc tcttcaaaaa gcagagtgga ctgcatttaa 180
atttgatttc catcttaatg ttactcagat ataagagaag tctcattcgc ctttgtcttg 240
tacttctgtg ttcatttttt ttttttttg gctagagttt ccactatccc aataaagaat 300
tacagtacac atccccagaa tccataaatg tgttcctggc ccactctgta atagttcagt 360
agaattacca ttaattacat acagatttta cctatccaca atagtcagaa aacaacttgg 420
catttctata ctttacagga aaaaaaattc tgntgttcca ttttatgcag aagcatattt 480
tgctggtttg aaagattatg atgcatacag ttttctagca attttctttg gttcttttta 540
cagcattgnc tttgctggac tcttgctgat ggctgctaga ttttaattta tttggttccc 600
tacttgataa tattaaggga ttctggattt caggttttca tttggtttgc ttttggtttt 660
ttcctcatgt aaccattggg ggaanggatn caaggaattt gacacaaang gnggggaataa 720
aacattaatt ttgngcccnn nnnaaaanan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnna aacctcggnc cttntaaa 808

<210> 4677
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 4677
gntctcatnn tgnnaggctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggtgcgac gaaggagtag gtggtgggat ctcaccgtgg gtccgattag ccttttctct 120
gccttgcttg cttgagcttc agcggaattc gaaatggctg gcggtaaggc tggaaaggac 180
tccggaaagg ccaagacaaa ggcggtttcc cgctcgcaga gagccggctt gcagttccca 240
gtgggccgta ttcatcgaca cctaaaatct aggacgacca gtcatggacg tgtgggcgcg 300
actgccgctg tgtacagcgc agccatcctg gagtacctca ccgcanaggt acttgaactg 360
gcaggaaatg catcaaaaga cttaaaggta aagcgtatta cccctcgtca cttgcaactt 420
gctattcgtg gagatgaaga attggattct ctcatcaagg ctacaattgc tggtggtggn 480
gtcattccac acatccacaa atctctgatt gggaagaaag gacaacagaa gactgtctaa 540
aggatgcctg gattccttgt tatctcanga ctctaaatac tctaacagct gccagtgttg 600
gtgattccag tggactgtat ctctgtgaaa aacacaattt tgccttttt gtaattctat 660
ttgacaagtt tggaagttaa ttagctttcc accaaccaaa tttctgct 708

<210> 4678
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 4678
gttnnnnntt tgaatccctt ngctctngnc tttttgcagg atcccatcga ttcgcactaa 60
aaataggttt gttgtttaag aagacacctt ctgagtattc tcataggaga ctgcgtcaag 120
caatcgagat ttgggagctg aaccaaagcc tcttcaaaaa gcagagtgga ctgcatttaa 180
atttgatttc catcttaatg ttactcagat ataagagaag tctcattcgc ctttgtcttg 240
tacttctgtg ttcatttttt ttttttttg gctagagttt ccactatccc aataaagaat 300
tacagtacac atccccagaa tccataaatg tgttcctggc ccactctgta atagttcagt 360
agaattacca ttaattacat acagatttta cctatccaca atagtcagaa aacaacttgg 420
catttctata ctttacagga aaaaaaattc tgntgttcca ttttatgcag aagcatattt 480
tgctggtttg aaagattatg atgcatacag ttttctagca attttctttg gttcttttta 540
cagcattgnc tttgctggac tcttgctgat ggctgctaga ttttaattta tttggttccc 600
tacttgataa tattaaggga ttctggattt caggttttca tttggtttgc ttttggtttt 660
ttcctcatgt aaccattggg ggaanggatn caaggaattt gacacaaang gnggggaataa 720
aacattaatt ttgngcccnn nnnaaaanan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnna aacctcggnc cttntaaa 808

<210> 4679
<211> 880
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 4679
ttatntttca ttcanctctt gttctttttg caggatccct cgattcgaat tcggcacgag 60
tcaaggccta cgaacaggtg atgcactacc ccggctacgg ttcccccatg cctggcagct 120
tggccatggg cccggtcacg aacaaaacgg gcctggacgc ctcgcccctg gccgcagata 180
cctcctacta ccaggggggtg tactcccggc ccattatgaa ctcctcttaa gaagacgacg 240
gcttcangcc cggctaactc tggcaccccn gatcnaggac aagtggagag caagtggggg 300
tcgagacttt ggggagacgg tgttgcatag acccaaggga gaagaaatcc ataacacccc 360
caccccaaca cccncaagac agcagtcttn ttacccgctg canccgttcc gtcccaaaca 420
gagggccaca cagatacccc acgttctata taaggaggaa aacgggaaag aatataaagt 480
taaaaaaaag cctccggttt ncactactgn gtagactcct gcttcttcaa gcacctgcag 540
attctgattt ttttgntggt ggtgntctcc tccattgctt gttgntgcag gggaagtctt 600
tactttaaaa aaaaaaaaaa attttgtgga gttggacttc gggggtnaaa aacccatgtt 660
tgtttttnaa caagnaanca agaaggggtt ggtacttatt tggnnttaaa aaaaaaaaaa 720
aaaaaaaaaa aaaacntttg nngncccttn ttaaaaaact ttttttgnng gaggttcggt 780
nattttaccg ttaaaaattc cccccaccct tgggtttang gaattnncan tttggattgn 840
aaatttttgg gnaccnaaan cccncccaac ctttgggaaa 880

<210> 4680
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 4680
ttatntttca ttcanctctt gttctttttg caggatccct cgattcgaat tcggcacgag 60
tcaaggccta cgaacaggtg atgcactacc ccggctacgg ttcccccatg cctggcagct 120
tggccatggg cccggtcacg aacaaaacgg gcctggacgc ctcgcccctg gccgcagata 180
cctcctacta ccaggggggtg tactcccggc ccattatgaa ctcctcttaa gaagacgacg 240
gcttcangcc cggctaactc tggcaccccn gatcnaggac aagtggagag caagtggggg 300
tcgagacttt ggggagacgg tgttgcatag acccaaggga gaagaaatcc ataacacccc 360
caccccaaca cccncaagac agcagtcttn ttacccgctg canccgttcc gtcccaaaca 420
gagggccaca cagatacccc acgttctata taaggaggaa aacgggaaag aatataaagt 480
taaaaaaaag cctccggttt ncactactgn gtagactcct gcttcttcaa gcacctgcag 540
attctgattt ttttgntggt ggtgntctcc tccattgctt gttgntgcag gggaagtctt 600
tactttaaaa aaaaaaaaaa attttgtgga gttggacttc gggggtnaaa aacccatgtt 660
tgtttttnaa caagnaanca agaaggggtt ggtacttatt tggnnttaaa aaaaaaaaaa 720
aaaaaaaaaa aaaacntttg nngncccttn ttaaaaaact ttttttgnng gaggttcggt 780
nattttaccg ttaaaaattc cccccaccct tgggtttang gaattnncan tttggattgn 840
aaatttttgg gnaccnaaan cccncccaac ctttgggaaa 880

<210> 4681
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)

<223> n = A,T,C or G

<400> 4681

ttatntttca ttcanctctt gttctttttg caggatccct cgattcgaat tcggcacgag 60
tcaaggccta cgaacaggtg atgcactacc ccggctacgg ttcccccatg cctggcagct 120
tggccatggg cccggtcacg aacaaaacgg gcctggacgc ctcgcccctg gccgcagata 180
cctcctacta ccaggggggtg tactcccggc ccattatgaa ctcctcttaa gaagacgacg 240
gcttcangcc cggctaactc tggcaccccn gatcnaggac aagtggagag caagtggggg 300
tcgagacttt ggggagacgg tgttgcatag acccaaggga gaagaaatcc ataacacccc 360
caccccaaca cccncaagac aqcagtcttn ttacccgctg canccgttcc gtcccaaaca 420
gagggccaca cagatacccc acgttctata taaggaggaa aacgggaaag aatataaagt 480
taaaaaaaag cctccggttt ncactactgn gtagactcct gcttcttcaa gcacctgcag 540
attctgattt ttttgntggt ggtgntctcc tccattgctt gttgntgcag gggaagtctt 600
tactttaaaa aaaaaaaaaa attttgtgga gttggacttc gggggtnaaa aacccatgtt 660
tgtttttnaa caagnaanca agaaggggtt ggtacttatt tggnnttaaa aaaaaaaaaa 720
aaaaaaaaaa aaaacntttg nngncccttn ttaaaaaact ttttttgnng gaggttcggt 780
nattttaccg ttaaaaattc cccccaccct tgggtttang gaattnncan tttggattgn 840
aaatttttgg gnaccnaaan cccncccaac ctttgggaaa 880

<210> 4682
<211> 1690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1690)
<223> n = A,T,C or G

<400> 4682

ccnccnnann acnnngcnnn nnaaannnaa nnncnnnann nngaaacnnn nnannnnnna 60
nngcagngnn ngnannnang cgagnnancn gaanangacg cannnnannn nngaangann 120
nnnncncgng gngncntgna nannnacaan aggcngnana cacnnngnng anannggcnc 180
annnacacgn ananannnac canaacannn cngctancan naagannnca cnnnanagca 240
nnncncagng ngngggancc gagngcgnga cntnnnccna ttttttggga aaccgggttt 300
tgggccaaaa acgngcttgg ggnagannct cacaaacgca cnnaggagac gagagagngn 360
agccgngncn acgntnnacc agctacagcg aantcncnng nncgccnagn ngnaanacga 420
gacnnnagna gnnacnacca anannaccan gggaaggggg gggaaccnnn cgnccaanag 480
nccnnacacn nantaaanan ngagngnngt aagacancca ngnnncaaan tgnnaannnn 540
anncaanacn aaaanaancc nnnnacctat acnnagncac aacaactnan ancnnagaan 600
annannntnt cnannnnaan caaaaaagaa tcnncannta nannagnanc ganncgcgca 660
nanccncaan gtannaanna tantannaca cgacgganac atngnanacn angcgnanan 720
acangnnnan cncancanan ancnangaag atntntncga gaacgcgctg cngnatacac 780
ancngctnnn gacngnnnaa cnccagnann angcntnang acncacnnna cacacncgcn 840
annncancng cacagcgnng atanacgaac gnnncaagct cnagnaanac aggtangcca 900
cangnagagn anaccnnnna cnagnnaaan aagncacatc accgatanat nctcgannnc 960
naccagcnnn nnncnagnga cnncaccgcn nnnanctctn ncnacangnn nangnaccnn 1020
ngcntncaca cgnanaanaa tctncnccca gaagcncggc ncncgncacg anacgcagag 1080
naccgncagn atnantnacg cgcaaanagc gacanaangc angnccaaga tanagnngan 1140
agcgnnatan nagcacgtcn acacagcgan acnngaagan cacgngnann tnntnagana 1200
cannnngnaa nacagcctnt gacgnaacac agcannacat cnnacagctc ngacancacg 1260
anananggac agncncngan acacgngaac nacncaannn cacannagan gagancannc 1320
tnannnagat gananctanc anncacgnga tnncactata tngannangn ncgntgccgn 1380
ngnnancagc agccngcacc ancncctact tgcntactnn atncnatgag caccaacgan 1440
ataagannac cacncccttn ancgannana tgaacacatn canntaaann gnagantnan 1500
tanacgacnn ncncannnac ngangtacag nnnnntcacc anngncgnnn gatangctcn 1560

nntatactaa cnnananana gnnnnaacaa cagaaanaan cacnagacag agaagcnnnc 1620
ncatgatnnc ccactcacga ncnnnngagt cngcngannn tccnnnnctn atcnncagaa 1680
ntncntnncn 1690

<210> 4683
<211> 933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(933)
<223> n = A,T,C or G

<400> 4683
gagnagggng ttctaatnct ggctntcagc ccaanaacag ctctgttctt gcncangatc 60
cgntcgatgt tctccantgg accatccagc ctttttccna gccaggaaag cccggntnga 120
gcanntgata tccangaatg ngngaggctg ncgnngcaag gancacctna ggtcnggana 180
tctnananca tcntggcnnc atnntgaaac cctntngnna ctatgnannn tcncaaatca 240
gctnngnnnn ctggngnacg cntgnagtgc cagcnccang gaggntgatg cagctgaacc 300
cctgancgcc ggnatggtca agattgcnnt gacgntnana tcnaaccatt ggnactccat 360
cctggggcan gangaacnan anctntgact cacggtaatg taatcnnnag gtggntggat 420
aaacttgagg ataaaggntt cgannatcaa nactggaggc aactttnncn ggntaaccct 480
atntantanc tanaatatat ntggaaatcn nnnacanggc aatnggctan ancncnannc 540
ccttggtaan acacccntan ttccntaggg gcacgcgtnn acggcangnn tnantcnncn 600
taanaaaccc ancgtanggt gntaagggnt taccanntan tcncgaanaa tcnacgccca 660
cctngnattt tcctnnggcn cttggggcaa ncaaaaatgn ntgaaaaacn tcttgngagn 720
tccaatanan cccacnanat ttcnnaacta tntaagcacg cnntaannтt ggnaaaaacn 780
ccnaattngg naatcantat tangganggg ggacatccat ttttaaaccn ttnganaatn 840
nncccnaaaa cnnatgctnt tctannngga agnnccaatn nggcataacn aaannnтttn 900
gnngnnannc ananatccnn tctctnnntc nnc 933

<210> 4684
<211> 1383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1383)
<223> n = A,T,C or G

<400> 4684
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nnccnannan cnnanangnn ncncaannnc aanccncnna anacnanncn nananncnnc 120
anancnnaca nnnannnanna nnannncnnn cntcnanaaa cacngacnnn nnnnnnnang 180
nnnnaangna ggggnnncnn nnnnnnccnn ngaggannсn nnngggnagg annnggcccc 240
gttttttcct gaaaanagnc cttggggnna acagggcnan acantcanca aggagagana 300
ggcnannana gggccttttn naacangcca nnccacanan gaacnncnnn aattcnggaa 360
aatangcgca cnaaccaggc anacnactcc ngcgcacgat cnccaaancn ntggggaanc 420
acatcnncna caacnancnt nnncccnana agcctnangn ccacnacnaa cccccnncaa 480
ncganaacac ancccctana accnaacnca aanacanacc cacncnnang acaacngnnc 540
annenagcac cancnatncn nnnccggacc antnncngca naccaaagna caccagcnan 600
ancgnnancc caaacacaca gataaacncn nanagnntcc atngcataan cggaanngnc 660
accatnctnc naancaaann nncccntnna nccanananc acttancant aacacccanc 720
nggtncgacn acaacngcan ngcnactaca tcncaaacac agccaacncg acncaaaacc 780

acnacacagc ccgcgccaaa cccttaaccc tncaanacca ttancnagac ctaacncnaa 840
cannengnac ggncaccann nncacnccna tagacccnag nncnncanac cggagnaaaa 900
cnntcnggnn tanananaac aancaccaac nataangcaa cngcnnagna cccnaccaca 960
tnncccnctc anannnaccc nnacacgcga ancaccgagc aacannctgg gcnaatacnc 1020
tgcacaccnn ccgccatagc gacaaanacn ttcgcanngn nnnaaancan nncgagcanc 1080
cccgncctnn naacacaaat ngcnaanncc agagcaacca cacancagga tcaacaacac 1140
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acacaaaggc cnccgacaaa anntnncacn nncananacn catcggacac caccannaan 1260
aaccnnnggg acgcgcncca ntnnttccan ananagnann nacccnccca ttacgagcga 1320
taancctcaa aaaacnngga acantacccc gaacggcccc actcantntn ngnggatcaa 1380
cgc 1383

<210> 4685
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4685
ctaatcnaan ncnnngcntn tcgnnctnnc cgaaanaaan aggctnnngc gtggtgggaa 60
gcgtgcggtg ccgcagcaat ggcggcgctc acaattgcca cgggtactgg caattggttt 120
tcggctttgg cgctcggggt gactcttctc aaatgccttc tcatccccac ataccattcc 180
acagattttg aagtacaccg aaactggctt gctatcactc acagtttgcc aatatcacag 240
tggtattatg aggcaacttc agagtggacg ttggattacc ccccttttctt tgcatggttt 300
gagtatatcc tgtcacatgt tgccaaatat tttgatcaag aaatgctgaa tgtccataat 360
ttgaattact ccagctcaag gaccttactt ttccagagat tttccgtcat ctttatggat 420
gtactctttg tgtatgctgt ccgtgagtgc tgtaaatgca ttgatggaaa aaaagtgggt 480
aaagaactta cagaaaagcc aaaatttatt ctgtcggtat tacttctgtg gaacttcggg 540
ttattaattg tggaccatat tcattttcag tacaatggct ttttatttgg attaatgcta 600
ctctccattg cacgattatt tcagaaaagg catatggaag gagcatttcn ctttgctgnt 660
ctcctacatt tcaagcatat ctacctctat gtaagcacca gcttatggng tatatctgct 720
gcgatcctac tggttcactg caagtaaacc agccttttgt ctgtgggaaa aat 773

<210> 4686
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4686
gntntttnta agcgannngc tacttgctct ttgcgcgagn ccntatnttc naattcggca 60
cgaggnngtc tcctgagcca gagtgtgctc agacagcagt ccagctggtg gaaagggact 120
tatggagaga aaaagaaaag cgatgtagaa aaattgaaaa gaggtacaga nacagctgga 180
ttggttacag ctcggtgttt gccttatttt gaacagggtt tgaacagttg gccacctttg 240
gttgctcaaa acttggtgat tggcacanga gtangttaca gtctgtttgc acatccnttt 300
aggttgcngt tcactgtgta cagagaaacc tttaggctga acttaaaacg ngtnaggaga 360
cagctttctg cttgatttaa cagtatcacg ggtgtgtgtt gngaggtang gaggtggggg 420
cncttnantn cngtctncta ngnntgtgtc aacntctggt gcagtatctg tgcnnnttgn 480

atctnctgga ancnctnatc taacngactt ggntaccang ntnncncttt actnantggg 540
tnnangggcc acccttnntc ttattnnggn tggcanaanc nttcccnttn ggtnnctngg 600
naaactnttt atgtggctct ttgntgnnan aaganntggc ttttttnggt ntgnttaang 660
gttnncnttt tgnnaaantt gctcttttgt nnntntgtnn actaaacccc ttttttntaa 720
ccctttttana nnngntnaaa acnnttttaa tcnttccnat gnnnnnaann nttntngggt 780
cnct 784

<210> 4687
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 4687
ggtatagatc attctacttg ttcnttctnt atgcaggatc ccatcgattn gaattcggca 60
cgagacccac ttaggtggcn ccaatgnnga cntncagann gnacagtncn ttnatnnatg 120
gggnngtgan ngcntntata tcataaatct caagaggncc tgaganantc ttntgctggc 180
anntcntgca nttgtngcca ttnaaaaccc tgctgatncn agtgtnatnt cctacgggaa 240
tactggccag aagggctgtg ctnaagtacg ctgctgccac tgnagccact ncaattgctg 300
gccncttnan tcctggaacc tttactaacc atatccaggn ancntttcgn gagccanggc 360
ttnttgnggt tactgacccn atggntnanc accagcntct nactgangca tcttatnnta 420
acctncctac cattgctctg tntaacacag attctcctct gngctatgtg nacatngtca 480
tatccatgca acagcancgg gagctnactc agtgggtaan gatgtggngg atgctnnctc 540
ggcaagttct tcncatgccg tggcancatt ttccatgaan acccttggga gggnaatgcc 600
tgatcttnna cttnnacana aaatcnttga ngnaaaattg cnaaatntan taaaccngnn 660
tntcttgntt gngaaangcn natgaacnca ttggaangga attttcangg nnttaantgg 720
ggntttnntt ancctccnn nnanannnnn g 751

<210> 4688
<211> 1383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1383)
<223> n = A,T,C or G

<400> 4688
cccnnncnnn nnncnacccn ancccennnn nnacnanccc nanacngcna anaannanct 60
nnccnannan cnnanangnn ncncaannnc aanccncnna anacnannen nanannennc 120
anancnnaca nnnannanna nnannncnnn cntcnanaaa cacngacnnn nnnnnnnang 180
nnnnaangna ggggnnncnn nnnnnnccnn ngaggannen nnngggnagg annnggcccc 240
gttttttcct gaaaanagnc cttggggnna acagggcnan acantcanca aggagagana 300
ggcnannana gggccttttn naacangcca nnccacanan gaacnncnnn aattcnggaa 360
aatangcgca cnaaccaggc anacnactcc ngcgcacgat cnccaaancn ntggggaanc 420
acatcnncna caacnancnt nnncccnana agcctnangn ccacnacnaa ccccennaa 480
ncganaacac ancccctana accnaacnca aanacanacc cacncnnang acaacngnnc 540
anncnagcac cancnatncn nnnccggacc antnncngca naccaaagna caccagcnan 600
ancgnnancc caaacacaca gataaacncn nanagnntcc atngcataan cggaanngnc 660
accatnctnc naancaaann nncccntnna nccanananc acttancant aacacccanc 720
nggtncgacn acaacngcan ngcnactaca tcncaaacac agccaacncg acncaaaacc 780

acnacacagc ccgcgccaaa cccttaaccc tncaanacca ttancnagac ctaacncnaa 840
cannengnac ggncaccann nncacnccna tagacccnag nncnncanac cggagnaaaa 900
cnntcnggnn tanananaac aancaccaac nataangcaa cngcnnagna cccnaccaca 960
tnncccnctc anannnaccc nnacacgcga ancaccgagc aacannctgg gcnaatacnc 1020
tgcacaccnn ccgccatagc gacaaanacn ttcgcanngn nnnaaancan nncgagcanc 1080
cccgncctnn naacacaaat ngcnaannec agagcaacca cacancagga tcaacaacac 1140
atanngggna ncngcnanag agggcaaann gncacaaaac cnaaaacata ctctnnaaac 1200
acacaaaggc cnccgacaaa anntnncacn nncananacn catcggacac caccannaan 1260
aaccnnnggg acgcgcncca ntnnttccan ananagnann nacccnccca ttacgagcga 1320
taancctcaa aaaacnngga acantacccc gaacggcccc actcantntn ngnggatcaa 1380
cgc 1383

<210> 4689
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 4689
ctngttcttt tttcaggatc ccatcgattc gaattcggca cgaggatcag atggtttaac 60
tnttgnggca gnngcgagaa anctntgatg atngangaca nnttttttaag aaagcaagaa 120
anaaagatac tatggggtca agtgtaactc catggaaatg ccacgtntgc tcttcagtga 180
anaagctggn tnanagtnnc acngaaaact tttgactgta tntatttatt gntgcaaaaa 240
agacgctttt atattgcngc cctcatttgt cacctaagna tnncttctta taaaatccag 300
ccccggatnc atataancat ctgtanctna tcatgattcc tgntgnaaaa gtcancnacg 360
acctntagan gnctttttctt nctatgaaag gagctgctat gncacatgtg cacacnccgc 420
acaactgggn atnaacaatg agtttattgn ncntggtgga ccaaaattaa gcttgcntaa 480
gggttgngct aantggacct ggactacaga ctctgacgcc ttgaatataa cagtacaatt 540
tggcnatttc tctgaancag gctaaactga gtaaaatctn tttgaaggng tcctnggtgt 600
gaacatttgc cnngaagcta attagngnct ntnngnattt naaattcaac ctntggngtg 660
gaatatgaaa ccnanntnaa acggagataa ctttttctcc ccncanaaan tnaacnttgn 720
gntccntaaa ccnttttagg ggatncnaaa ncnttnnnnc cnc 763

<210> 4690
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4690
gnnnnnnntt tgananccat cnntttaaat ncattttgct actngttctt tttgcaggat 60
cccatcgatt cgatcagtat gaactcttaa aacatgcaga agcaactcta ggaagtggga 120
atctgagaca agctgttatg ttgcctgagg gagaggatct caatgaatgg attgctgnga 180
acactgtgga tttctttaac cagatcaaca tgttatatgg aactattaca gaattctgca 240
ctgaagcaag ctgtccagtc atgtntgcag gtccnagata tgaatatcac tgggcagatg 300
gactaatatt aaaaagccaa tcaaatgttn tgcaccaaaa tacattgact atttgatgac 360
ttgggttcaa gatcagcttg atgatgaaac tctttttcct tctaagatng gtgtcccatt 420
tcccaaaaac tttatgtctg tggcaaagac tattctaaag cgtctgttca gggtttatgc 480

ccatatttat caccagcact ttgattctgt gatgcagctg caagaggagg cccacctcaa 540
cacctccttt aagcacttta ttttctttgt tcaggagttt aatctgattg ataggcgtga 600
gctggcacct cttcaagaat taatagagaa acttggatca aaagacagat aaatgttttt 660
tntanaacac agttaccccc ttgcttcatc tattgctaga actatctcat tgctatctgg 720
tatagactag tggaacaaac ttttaagaaa acagggataa aaaagaaacc cattggctgt 780
ggctactgat aaaaatatnc ccaan 805

<210> 4691
<211> 1197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1197)
<223> n = A,T,C or G

<400> 4691
aggggtttac actnctaaaa ttnttgagct nncgntgggc gnaaaggggg cnccccttaaa 60
naanttaagg cccncctnaa aaanaatcag ggannattnt gggggggctt tgngggggg 120
gtcatctatc nnnacaccnt aantntatta cncatagata ctcaattncc ntctctagna 180
natnnnngga tctttntcgg ctntnnancc nctcctacta ttactnctna aacgtnccnn 240
catantctnt ntacacatat atctnanata ctatacatat antntcatan tnntactact 300
ctnatntctc ntctacatct ctanttatnn ntcnntcnct ntctncnatc tantctcata 360
tctnnacgac nnactatttt tnctccnntt cctnctntcn cnntnttanc cccnatnann 420
atctntcacc ntnnattttc naatactcta tctattantt aactatctnc tntttcnnnc 480
nnntnnnnct atnnnnnctte tananactcn tccnctnnnc tnntnncnnn taantcnntn 540
cnntctctnn tnnnnnntnn tgnnnancct nactaanntc ntcnncntcn ntnattanna 600
nattnntaca nntcntccct ncanctnnnn nattntatan tcttnttncc nnttcantnt 660
anatnttntn nctancnntc nntaattcaa nattnatntc atcntcnnnt nttnancaat 720
nacaatnacc nccanntcac ctaatnttna tcncatacna cnccnnnctn tanccnnata 780
tnactncnnc anttcnntnt natctctnnt tnacacactc cnnngantat actnntnaca 840
cttcttatat nntntacntg tnatacactc ttnacntana tatnnatcan actnatanaa 900
agcatactat catcttacct nctntnatat accatncacc aatcacttan tntatncatc 960
tcannacanc tccacatatn actcatcnct aatatgtctc tataatnntn catctactca 1020
ntcacnnnna ctctntagat atatnctata ctncancnta tatntatcna ttcatctaca 1080
nantanctcn catctnttgn nctatacnat aattgtntct catatntntt tctcctacan 1140
nctttatctc gatnnttatc ntgtancncn nntntatcta natatnacat atcacat 1197

<210> 4692
<211> 1050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1050)
<223> n = A,T,C or G

<400> 4692
nntnancccc nacngctttn cntntccaat nnccctaaac anaaaggggc tggggcnnag 60
cnnagaacac atacaganan anacancnaa gngnctaggt ttttcacctt tttnacacnn 120
aaancancac gnnccgagtn ncgcagaacc ngcgcnnnca gcnncnngan ncgcnnangn 180
nccncgangg ctagagcccn nnnngnnaga ggcancaacn aaccatcacc anngccaann 240
cncatncnan tcngananga ganagcaaca ccctgnatnc naacaagaac ccanaantan 300
aanccannaa gtnanaaann aganccatca nncgaanacc catntnaccn ccccanagnn 360

cnnnnanctn anagnccagn accnnacnnc caancccnnn cgacnaaacn acccnctaca 420
nncgaatncg naannтccan gaccanctca nncntcntcn annngcnctc nnncanntnn 480
acccnnaant gccannenan tccccananc nnccntncca aacntnantc ccacnccata 540
gccanccaag aaccnncaaa cnnctncgnc anntcgatnc ncatcnccac cnctgcgnat 600
acgnntnanc acntcaccaa ncacgccaaa accnnannnn nncanaccga cnggacancc 660
tcnctacgcc nangnaatcn nccncccact cactcacctn nnctacntac atnagtnaaa 720
nanccctcat ctagaccaga acncncacta tctacnactn annctnnana gacacagnca 780
caatcntnan actnacacga tcncanacac cccaactccc ncagcaaang ctnncnatca 840
ncnactcatn cnactctnta ctaaacgtcn nnntcacagn gcgnaccana annngcnata 900
nacatncacn naaanacgna ccnncgatnt ctncactann acncaagtnt cnnntcnntn 960
nncactcaan cacnctanga nnnnatgcgg tactcgnaga aatctcngcc catagncnca 1020
cacannancc ccctacgcac anntccnccc 1050

<210> 4693
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4693
caaacngctg gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggc 60
taagtattct aggatctaca gttatggtca ttcatgctcc aaaggaagag gagattgaga 120
ctttaaatga aatgtctcac aagctaggtg atccaggttt tgtggtcttt gcaacccttg 180
tggtcattgt ggccttgata ttaatcttcg tggtgggtcc tcgccatgga cagacaaaca 240
ttcttgtgta cataacaatc tgctctgtaa tcggcgcgtt ttcagtctcc tgtgtgaagg 300
gcctgggcat tgctatcaag gagctgtttg cagggaagcc tgtgctgcgg catcccctgg 360
cttggattct gctgctgagc ctcatcgtct gtgtgagcac acagattaat tacctaaata 420
gggccctgga tatattcaac acttccattg tgactccaat atattatgta ttctttacaa 480
catcagtttt aacttgttca gctattcttt ttaaggagtg gcaagatatg cctgttgacg 540
atgtcattgg tactttgagt ggcttcttta caatcattgt ggggatattc ttgttgcatg 600
cctttaaaga cgtcagcttt agtctagcaa gtctgcctgt gtcttttcga aaagacgaga 660
aagcaatgaa tggcaatctc tctaatatgt atgaagttct taataataat gaagaaagct 720
taacctgtgg aatcgaacaa cacactggtg aaaatgtctc cgaagaaatg gaaatt 776

<210> 4694
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4694
ntncncatac agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagc 60
acattttcct gttttcttcc aagccctcca cagtgttcca acctctgccg gttacccatt 120
tccaaagtca cttccacatt ttcgggtatc cttatagcag caccccactc taccagtacc 180
aatttactgt attagtccat tctcatgctg ctataaagaa ctgctcaaga ctgggtaaat 240
tataaaggaa ggaggtttaa ttgaccacag ttctnagggt tcgcaaggcc tcangaaacc 300
tacaattatg gtggaagggg aagcaaatgc cctacttcac atggtggcag gaaggagaag 360
aatgagaacc aaatgaggga gangcccctt ataaaaccat cagatcttgt gagaacttac 420

tatcatgaga atagcatggg ggaaactgcc ctgtgattca attacttcca ctaggtcact 480
cccaccatac atggagatta taggaactac aatttacgat gagatttggg tgggaacaca 540
gccaaaccat atcaagtatt aacagnagaa ttaaccangc tgaggaanga ctctcagagc 600
tcaaagactg gttnttcaaa atacagttnn nccaaaatnn aaaannaaaa aaaaactcgg 660
cctntaaaac tatantgagt cgtattcgta gatccagaca tgataagata cattgatgag 720
tttggacaaa ccacactaga tgcagggaaa aaatgttttt ttgtgaaa 768

<210> 4695
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4695
ntncncatac agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagc 60
acattttcct gttttcttcc aagccctcca cagtgttcca acctctgccg gttacccatt 120
tccaaagtca cttccacatt ttcgggtatc cttatagcag caccccactc taccagtacc 180
aatttactgt attagtccat tctcatgctg ctataaagaa ctgctcaaga ctgggtaaat 240
tataaaggaa ggaggtttaa ttgaccacag ttctnagggt tcgcaaggcc tcangaaacc 300
tacaattatg gtggaagggg aagcaaatgc cctacttcac atggtggcag gaaggagaag 360
aatgagaacc aaatgaggga gangcccctt ataaaaccat cagatcttgt gagaacttac 420
tatcatgaga atagcatggg ggaaactgcc ctgtgattca attacttcca ctaggtcact 480
cccaccatac atggagatta taggaactac aatttacgat gagatttggg tgggaacaca 540
gccaaaccat atcaagtatt aacagnagaa ttaaccangc tgaggaanga ctctcagagc 600
tcaaagactg gttnttcaaa atacagttnn nccaaaatnn aaaannaaaa aaaaactcgg 660
cctntaaaac tatantgagt cgtattcgta gatccagaca tgataagata cattgatgag 720
tttggacaaa ccacactaga tgcagggaaa aaatgttttt ttgtgaaa 768

<210> 4696
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 4696
ntantaaatc ccttgctctt gttctttntg caggatccca tcgattcgaa tncggcacga 60
ggacccggcg gcgcggacag gcttgctgct tcctcctcct nngactcacc attncaganc 120
agaannntgaa aaaatggnng anctcaccca ggtaanggat gatgaagtnt tnatggctnn 180
tgcatactat gcannanttn tncttntgna aatgatgcnt atgagtactg taanngnntt 240
ctatncattg ncaagaangg ntnttgncaa tncatangac tgtgtagcat tcggcanagg 300
agaaaatgnc aagaactatc ttcgaacaga tgacanagtg taacgggtac gcagagncca 360
cctgaatgac cttgaaaata tnattccatt ncttgnaatt ggcatnctgt attccttgag 420
tggtcccgac ccctctacag cnntcctgta ctttagacta tntgtcggag cncggntcta 480
ccacaccatg tgcatatttg acacccctttt cnnatccaaa tatagctatg actttttttn 540
gtaggatatg gannactctt tccatggctt acacgntgcn gtaaagtaaa ttggccctgt 600
gcagaaaaac attccactca gtnttccaan tggcttntta aggaattctn gaccttgcaa 660
ttnatantgg agnnctttcc ttaagattta aaggtttgan ggngagccnn aggaattntn 720
aaccngggggt aaaccctttt tggaattttn agcnttgnca anaa 764

<210> 4697
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(744)
<223> n = A,T,C or G

<400> 4697
ttaantaann ctntntcttg ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
gcggggcggc gcagcccgag ctcccggacc cggaagaagc gccatctccc gcctccacca 120
tggagcccac cgcaccgtcc ctcaccgagg aggacctcac tgaagtgaag aaggacgtga 180
gtaacgcagc tgtgcccagg gcgggcgggg gcgggctgca gcccagcggg agacgaaagc 240
ggaagcctgg agtccgagga caaggaggat cctccaggtc ggaggagcgg aaagtcctag 300
cacaggagga ctgtggcgag ccctgcatcc gagggacctt ggtggcagtg atcctccagt 360
gatctgtcaa tccaggtttt acatcgctaa acgcagagct tgggctttgt tgccaagtgg 420
tgttttgatt cttgcccact cctcacccat ctcctcatgc tttcccccca actgggttct 480
tggagatgct tcgttaggga ctggcggctc agattcatcc ttaagtcagg ctgcctaggc 540
tgctcactca gcctagagcg aagctgtacc aggtgaagga tcccaagcag tggaccaaaa 600
atgtgaaact cttttgcata angggggcttg aggaagctca acagctgaaa gcacaacctg 660
gaattcccct agtnagcaga cgcccacata tttaaattgg ggttgggggа atgaatacnc 720
gtactgagaa taatgtncag gtaa 744

<210> 4698
<211> 1224
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1224)
<223> n = A,T,C or G

<400> 4698
gggttanccc tttgnaactt tgctaaatng cttggcaact cgaactcnct gcanggtncc 60
atcgtttcga atncggcncg agacgacacg cttctgcagg tgaanggcac gcggcgccca 120
cggttncttn nagctgngnc gtatgaagct ggatggnngc nntgnggana angtagngct 180
tgatntgcta ataagaaatt tcttggaaaa gagactagct ctcaacgcat ccncnggngc 240
ggncggcttc cnngcncncn gacaannanc tcgncaggng ccngnatncg gancantnct 300
cncanaacaa gggcgctggc gccaagaata gacaangngc ggcatggcca acnaanacgg 360
tggcctncgn ctggcaanga angtgaagaa ggcngtcann ncnaagnnta nccaaantgn 420
cctatgnccn naatgttgag ctctntnaaa attcnntanc ttnttnnnan tgnnnaanta 480
ncncacanca ggtttttcatt nnacncanta ntanntnctt nnangancct nnncattagn 540
ccatnntcnt tacattnaat tccaatncng tnntggnttg nnccgccact tgcnttctnt 600
annnctgcnn ncttccnncn cgncantnnn ngactgtnat cnttngtnnc tactcttnnt 660
gcattncntn cntatcaacc ccaattgccc nntnnaatta ancgcanttc tcctcattcg 720
ncatnncctc nctantattt actcgnntct acnanttnac ccaccgtntt tannngctnt 780
nttntntaaa cccnnctctn anctccnaca tacgcnatnt tttacacacc tncttncttc 840
nctcnggcta tanngacccc ntacattatc tcatctcanc tctnatacnt gtcnccttat 900
cngngntatn ctnttctatc gcgncnnatc nnacggcctc acatnttnng nctcacncnt 960
nnatnnantc tacacacttc tcnntcatan tgtctcaaaa actngnanct actcttnact 1020
tnnaganaat tntatctnnc catactcatc tnttcatagc gaatctntnt acntctggta 1080
tccncnctct gttagntngg acacttcttc tngtctcttt nncntatnaa ccgntatgtg 1140
nggtntattn tcncaatncn ctntntccan ntttatcatt nggtttcccc ctntngccnn 1200

atantgggng acacantngn tnnt 1224

<210> 4699
<211> 803
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(803)
<223> n = A,T,C or G

<400> 4699
gnnnnnnnnn nttttgcana ccgctggcta ctngttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggcaacc ttcgcctcct gggttcaagt gattctcctc cctcagcatc 120
ccaagtagct gggactacag gcacgtgcca ccacacccag ctaatttttg catttttagt 180
agaggcaggg tttcatcatg ttggccaggc tggtctcaaa ctcctgatct caagtaatct 240
gcccactttg gcctcccaaa gtgctggcat tacaggaatg gagccaccgc gcccagcctg 300
atttcttttt ttaggtcttg tcaggaaaga tattgattct tttgattcgt gaacatggtt 360
tttggtcgtc tttaatttgt ctcatcagtg cctccatgtg tttttgatgc ctttgaactg 420
gtatttttaa aatttcaatt tctaattgtt cattatagaa acacaattgg gttttatata 480
ttggcattgt attttgcaac tttcctaaac tcactagtaa ttctagtagc tttttttggt 540
agattcttaa ggatttttctg tgtaaatagt catgtcattt gtgaataaag ccatttttt 600
ttccttttca aattttgtgc cttttatttc ttattcttac catatcacat tggcaaagac 660
ctncagtatg atattgaata aaagtggtga gagaaaaaca nannttatnn tnnnnnnnnt 720
cnnnnnncnn ncnntnnnct ncnancccctc ccnncnnncn nnnnnntcct tacnnnnnnc 780
nnnccccctt ttaaanttnn nnn 803

<210> 4700
<211> 770
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(770)
<223> n = A,T,C or G

<400> 4700
ggngnnnnnc ntttgaaatc tntatacanc tacttgttct ttttgcagga tcccatcgat 60
tcgaattcgg cacgaggttc gtcgtggcaa cgttgctggt gacagcaaaa atgacccacc 120
aatggaagca gctggcttca ctgctcaggt gattatcctg aaccatccag gccaaataag 180
cgccggctat gcccctgtat tggattgcca cacggctcac attgcatgca agtttgctga 240
gctgaaggaa aagattgatc gccgttctgg taaaaggctg gaagatggcc ctaaattctt 300
gaagtctggt gatgctgcca ttgttgatat ggttcctggc aagcccatgt gtgttgagag 360
cttctcagac tatccacctt tgggtcgctt tgctgttcgt gatatgagac anacagttgc 420
ggtgggtgtc atcaaagcag tggacaagaa ggctgctgga gctggcaagg tcaccaagtc 480
tgcccagaaa gctcagaagg ctaaatgaat attatcccta atacctgcca ccccactctt 540
aatcagtggt ggaagaacgg tctcagaact gtttgtttca attggccatt taagtttagt 600
agtaaaagac tggttaatga taacaatgca tcgtaaaacc tttagaagga aaggagaatg 660
ttttgtggac cactttggtt ttctttttg cgtgtggcag tttaagttat tagttttaaa 720
atcatncttt ttaatggaac aacttgacca aaaatttgtc acagaatttt 770

<210> 4701
<211> 756
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 4701
ttncatcagc tcttgttctt tttgcaggat ccctcgattc gaattcggca cgagggagga 60
cgaggaggag gacgacgaag aggaggagga ggaaaaggag gtggaggagc agcagcagca 120
gctgcagcag ctaatatgtt gtacttattc tgtgctgggc aaaattctgg atatttttca 180
tgtactattt aagcctcaca aaaatcttat gatataggaa atgcttgttt ccatttggca 240
catgaagaaa ctgaanaaca gagaaatgtg aaacttgcgc agggtagtct gtccagagtc 300
tgtattttaa ctactgctgn gttgcctccc attgcatagt gacttcacgt gtataggtgg 360
ttttatcatg cgaggaaata tttgagtata aactgtatgt ggtacaaatc atttttcca 420
aatgggaata cagtgtgttc cctaaaatta atgaatccaa tataattcca cctaanacaa 480
ttactgagtt ttttctttgt ggttgcagag cctaactcat cccatttccc tccctgtcac 540
ttttcatttt taggatttgc atcttcatat ttagtgaatc tttgatctaa tagntctggc 600
tatttaatag tagttttaaa acatctttag caccgtcttg gtanctttat tcctttcttt 660
ttacctagac agtttctctt aggacaaatt ctttttgttc cacttctctt tgatctgcta 720
tccacccatc tcaaattatc aattttcttt ctgcac 756

<210> 4702
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4702
ttnnaannnn tcangctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggtgtcaaa tttcttgtca ctcttgctca aaagtgtcct gcagctaagg agtncttcaa 120
ggagaattcc caccactgga gctgggctgt gcagtggcta cagaagaaga tgtcagaaca 180
ttactggaca ccacagagta atgtctctaa tgaaacatca actggaaaaa cctttcagcg 240
aaccatttca gctcaggaca cgttagcgta tgccacagct ttgttgaatg aaaaagagca 300
atcaggaagc agtaatgggt cggagagtag tcctgccaat gagaacggag acaggcatct 360
acagcagggt tcagaatctc ccatgatgat tggtgagttg agaagtgacc ttgatgatgt 420
tgatccctag aggaacatgc ccagcctgag aggagtcaag acacaatact ggatgctcag 480
caccttcttg gaatcagaat ctcgaaccct ttggaagagc ctggagattg gactgggaaa 540
gctgctgtga cttgggcgga tcgtgtattt ctcaaggaaa gcatttttaa gccctagaag 600
gtttgggagc tgtttggcag tgggagaact ccggcatgtg gatcaactgt cccgggagcc 660
tggtctatat gtggattcac atttctgtgg agattttcng aaatgaaccc gtggcagact 720
tttttggttn cacgaacntc cagaatgagc cttaaagctn 760

<210> 4703
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(805)
<223> n = A,T,C or G

<400> 4703
gnnnnnnntt tgananccat cnntttaaat ncattttgct actngttctt tttgcaggat 60
cccatcgatt cgatcagtat gaactcttaa aacatgcaga agcaactcta ggaagtggga 120
atctgagaca agctgttatg ttgcctgagg gagaggatct caatgaatgg attgctgnga 180
acactgtgga tttctttaac cagatcaaca tgttatatgg aactattaca gaattctgca 240
ctgaagcaag ctgtccagtc atgtntgcag gtccnagata tgaatatcac tgggcagatg 300
gactaatatt aaaaagccaa tcaaatgttn tgcaccaaaa tacattgact atttgatgac 360
ttgggttcaa gatcagcttg atgatgaaac tctttttcct tctaagatng gtgtcccatt 420
tcccaaaaac tttatgtctg tggcaaagac tattctaaag cgtctgttca gggtttatgc 480
ccatatttat caccagcact ttgattctgt gatgcagctg caagaggagg cccacctcaa 540
cacctccttt aagcacttta ttttctttgt tcaggagttt aatctgattg ataggcgtga 600
gctggcacct cttcaagaat taatagagaa acttggatca aaagacagat aaatgttttt 660
tntanaacac agttaccccc ttgcttcatc tattgctaga actatctcat tgctatctgg 720
tatagactag tggaacaaac ttttaagaaa acagggataa aaaagaaacc cattggctgt 780
ggctactgat aaaaatatnc ccaan 805

<210> 4704
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 4704
gttnaganca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgagggct 60
attaaaaatg taatcagtgt gaaaattcat gccatctgaa tcgtacgngt atgtaaggga 120
tttgagttcc ttacagaatn ttctgtaatt tannacttca agtgacttat aaatgtatat 180
acttctctct cacaaangtg ttaggagaag gaaaatctna aatactngct tgatttctta 240
atttaataac ataanacaat tctcataaca tgtatcacct aacatgtcac tttcacttta 300
aaagtctaaa gagttgangt ttatntcttt tcttttaaag ttgatgntta tgttggtgat 360
ttccnaaaag atcagatccc ccgntatgaa ggatcttaac cttgtctttt agatctccat 420
gagaaatgca gtacatgtag cattagccat attnctttt tagaggccta tgtaggatat 480
ttataacctg taaaagtttg atgacttcat gctcaggaga aagcaagtaa ttacctagcc 540
aagccaggtg ggtgttcagg ttagtggtca acagaaagga gatgttgaaa gatttcatat 600
ctnaagggta aaaacacaag agaagtatat agagataaac atgtaaagtn taagactgta 660
ccatagtaag ctaccttcga agtggcaccc ttgttattat ttttctg 707

<210> 4705
<211> 845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(845)
<223> n = A,T,C or G

<400> 4705
gngnngtnnn nnnttttcna acgttgttaa catacagcta cttgttcttt ttgcaggatc 60
ccatcgattc gaattcggca cgaggnnang cngttctgcc nangangcat nctnccncng 120
anatgccacc nnnntgcntg ntnaccnnna cgnnncacac gnctacctgn gggacatata 180
cttcatgcac nggttatgnc cntaccatga anncctactg acancnnaac nngancngnn 240
tgttgannac atgaataacc cactgnacna agaacntant ggaatgntan ctnnntatgt 300

ccttnttccn gnggaaggag nggacaacnt ttancaagtn ncagntccaa ancnaacnna 360
nccaantata ntnaaantna gngctgccan tttngtggac nccttgcnan atnnnnanng 420
ctctctnnna ccgntngaaa ttttncataa caccatatgc nccatgattc tcattgntgn 480
aagacantca ttcnatntac cagatnnatc ttggnngcnt ntntncnngc atnngnnnca 540
ctaaaaactg ntntnctaac taaataggat ttntntttnn ttatacnngg anaaaatgng 600
agttgtgccn naactntcat nngcgatant tacannaant tgtacttgnt aaatctaaga 660
atctaatgcn angacttaaa aaanangccn ttagaactat agggagtcna nttacgtcta 720
tnccnacatg nattgatnca ttcacgactt ngtccaaacc anatntntaa ttcctgaaan 780
taaatgntnt ntttngnana anntggaaaa gcttcncaan nttnntaanc ctaaaaccng 840
gntnn 845

<210> 4706
<211> 775
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

<400> 4706
gcaaccgntg gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggc 60
aaccttcgcc tcctgggttc aagtgattct cctccctcag catcccaagt agctgggact 120
acaggcacgt gccaccacac ccagctaatt tttgcatttt tagtagaggc agggtttcat 180
catgttggcc aggctggtct caaactcctg atctcaagta atctgcccac tttggcctcc 240
caaagtgctg gcattacagg aatggagcca ccgcgcccag cctgatttct ttttttaggt 300
cttgtcagga aagatattga ttcttttgat tcgtgaacat ggtttttggt cgtctttaat 360
ttgtctcatc agtgcctcca tgtgtttttg atgcctttga actggtattt ttaaaatttc 420
aatttctaat tgttcattat agaaacacaa ttgggtttta tatattggca ttgtattttg 480
caactttcct aaactcacta gtaattctag tagctttttt tggtagattc ttaaggattt 540
tctgtgtaaa tagtcatgtc atttgtgaat aaagccattt ttttttcctt ttcaaatttt 600
gtgcctttta tttcttattc ttaccatatc acattggcaa agacctccag tatgatattg 660
aataaaagtg gtgagagaaa acanannnna nnnnnnnnnn nntnnnnnnn nnnnnnnnna 720
ntnnnnccnn nnnaantnnn nnnncnnnat ncnnncnnnc cncntttgnn antnt 775

<210> 4707
<211> 1102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1102)
<223> n = A,T,C or G

<400> 4707
gggnttcccc ctnnnaaccc nttggaaanc cnctggngct ncntgcagga tcccagcnat 60
ngcactgagc nntgnggccn acggcngagc cnttttttcng cgagacgngc ccnncanggc 120
nccggggngc tcgtgctggn nagccnatgg gnagcannna ncncaancgg cctnccnana 180
ccagagnnnc anaacgnacc nagnnngtgg gcncncccta ngtcnaggac anaatannna 240
nncntancag ctgntngggc ncgcannaan ggnanannnn caggcccncn aannntaagct 300
ncnngaanca cncgntntat acncccnana naagnncncn ngntaacaac gccaggcgga 360
gcnttcgngg anananccac gagngncccg cctaaggaaa tggncgccna nancagnacc 420
ccgaanaana gtantngngg tnnntaancc gagngaacgt gacaggcgnn acgcaccgac 480
atngggcnaa anagaatcgc ctnggngnca catcgngnna cnagnganaa cgtncaacgn 540

acanncgngc acccnntnnn acnngtcana cgaaacnncn cncgcatntg agagcncggc 600
gcnctcnctg caaggggnng cttcnnnacc cccgccnaaa nanttnnnag aaatcccncc 660
nagacgtntt ataccnnaga cacnaccnng acccngcgnn gcantagtcg nanagagagg 720
ctnggtnagn ananncantg cgcncgnntc ccnttcggcg cncnanaana agcccagcgc 780
tntngaannng tggcnccccn ntgngnncgc gcnagncacc cnggtggcga aaacacnggn 840
angngccnnt nnnaacncan ngggggggge nanaacccgg ggggaaggcg tnaccngcan 900
aanggngaaa acngcccaca nttnnnctcc gccnggcant ancccennga acatcgnggn 960
gcannncccg gcanngnccc cggccaggcn ggcgnnnccc aggnanntta cgnaccggan 1020
ncccggnncn acnncnaggn ncccnanacn nnggnaccnn ngncnggngg gnnacgatgg 1080
ggncnngcnn gnnctgccan ca 1102

<210> 4708
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(855)
<223> n = A,T,C or G

<400> 4708
ggtgcttccc cctgngaacc ctttntacag gcnacttgta ntttntgcan gatcccatcg 60
actcnaattc ggcacgaggg catancccgg aatngngttt ttgatgcatc cagtcgtggc 120
attgcaagaa gtctgtctga tgaagctcgg gaagcatttt gcaatattcc cttnggctgn 180
gttcctgtgt tccctgctcc cacttatctt cccctggttt gtgattatta ggagagaggt 240
tntgcaaaga ctcnntgctg tgaaagaatc ttttnttaat tnttatccta nagtcantca 300
cttttattcc aggnagtcat gctgatctac ttatccaaag ccagcnaacc aggntcatcc 360
taccatcctc atggaagact gtgtgtatga attggagtaa cagaactgaa ntacacttaa 420
ncagtgacag cactacttcc cagggtgggg gccatatttc tctgngtcct actctgagca 480
acttctcana gatacgangg ggctagggtt ttcccatntg gggaaatggg gtgaaagnct 540
gcanatngnt aaaagcaaat gttngaacca ncaataaatn agatnnntcn ncatngnnca 600
atnnngcact antnacnnnn ntnganannn cgtanntnnn ctncgncnnc tnggnagtnt 660
cncnnggnnc tctnnattcc tcgnnannng atcngcaatt ggnannttca nnatntggat 720
nnacanctat ncgtgancna atnaacntac nntgngnngt acnacnacnn tnactatcnc 780
atacgcgntc naaaancgat ntcacgtntn cacnattngn anatatcann ttnctctnnc 840
ttgntctatt naccg 855

<210> 4709
<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(843)
<223> n = A,T,C or G

<400> 4709
tnnnnnttta nttttaatat actncagctc ttgttctttt tgcaggatcc catcgattcg 60
aattcggcac gaggaacatt cggactcgag ataatcgtcg ccttggggag tgggacttgc 120
ctgagctgtg cagcgactgg tggagctaca gaacacgagg gtcccaaatg ccgaagaaat 180
tttctgagcc tttgtacata gatgaggcaa aaacctgcga gtgccatcag cctccctcac 240
atgggagacc ccaacccagc tgacaatgtg gagcccccag aacttcagaa ctggtggagg 300
cacatgtctg ctctcctgaa aagagacttg gtttggggac cccacaaaag gagggaagct 360
gtagctgttt ggatgtgagg agaatgaaac tacaaaaaaa aataaattgg gccaggcgca 420

gtggctcatg cctgtaatcc cagcactctg ggaggctgag gcggacggat catgaggtca 480
ggagatcaag accaccctgg ctaacacggt gaaaccctgt ctctactaaa aatacaaaaa 540
attagcccgg gcatggtggc acacgcctgt aatcccagct tcttaggagg ctgaggcagg 600
anaaatcgct ttgaacccng gaaggtagaa ggttgcantg agcttgaaaa ttgcgcccac 660
ttgcaccccc cttaggcgac aagaaccgaa gaacttttgt ctnttaaatt aaattaantt 720
aanttaantt aanttcccaa cctggggnna aaaaanannn nnnnnnnnnn nnnnnnnnnn 780
nnnnnccctt cganccttnt taaaaacttn ttagnggagg tcggtnttta ccgttaaaat 840
ccc 843

<210> 4710
<211> 1501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1501)
<223> n = A,T,C or G

<400> 4710
nanggagcaa ggccaggttt ttnnncngnn ctaannnann tnnagaaacn acggcttttg 60
nggtttanng gncnaaaaaa ccccccncaat gcaggcncca gcagananan aaggagncgg 120
cncggggagg nggnaanana nnnncatana ccngacgaga gnggancacn nntaacagaa 180
gacacaccan aacacnngaa cncancacaa agantcncan acctaannng cgacgaanac 240
ncnacacntn ttttttttttc acnaanaana cnnaaannag agngaacgca nnannagnac 300
acnnacnacc acgaggggga gangnacnan agagnggaca acaagagaag aaanaacaan 360
ccaacacgcn cngaacaaca acacccccng acancacaan aacacananc gcaccaaaca 420
ataanatcag aganacacac agaccaacan aacacncaac acnngcnaaa ancnaacgaa 480
gnaaannccaa acaacnaaan ccacaacgna gancannnac nacacaagna aaaaaatnna 540
nnanaananc aaannncanaa accnaaaaan nncacanana acananaatn cnnaancnaa 600
ccaancnaca nnannanacc ncacagnant aanaaanaac ngnnacanaa nnacacagag 660
acanacacac natacnnaca ccanacaaac caananancnga canactacnn aanannnnna 720
ncnaaacanc gacanagnna nacaaacaaa gnacacgnaa ncatncncac nanagcanan 780
nacgnataac accgnangag aaagatacnn acatnaanan ctanaaacgc ataccgngcg 840
cgncatanaa nagnacnnan ananataata gcaaanaana cacnnaagca naaacaacac 900
angncaacaa naacaaaaag anagaatcnc acagacagng cantnacgca cacaactaga 960
cacacaagng anacaacgac acaanataga taagananag anagnnnnag aaaacncaca 1020
cganacncaa cacgaannac aganannnac cacnnaacac aangagcacc nacancaacn 1080
ananananca ccancnanna nnnaananan gacacaaaca cncnatacaa annnaagacn 1140
acnncacaca nagatanaaa naanagncga ccgcagnnaa acaccacgac aggaacanaa 1200
nnncnnacna nananngaaa nngtananng agggaagcaa angaaannaa cacantangn 1260
nggaacacaa anaanancan annnccatna aaganaanna cannaacncc nganaaaaan 1320
ggaaacacan aancanaccg naanaananc nncnnanana nnacaaaanc accntagaan 1380
cncanaanac ngaacnaaac acaacnnnan canacaaccg aatnaaannn ncancacaaa 1440
tgnntnanac caaaganaac nanancannn caaaacnaca cncncgaagg ntnnnaacnn 1500
g 1501

<210> 4711
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 4711
tttttaaaac ttttaagccc ttgtgcannn gcaggatccc atcgattcga attcggcacg 60
agaatagtag aaagggtccc cattcctgct cagcacnttt cctctctacc cccccacaga 120
cacacatgct gacacacaca tgcngacaac acncatacac acacatgcag gcactcacat 180
gcaggcccat gcacacacac gtgcacacac atgcaganac atgnagacac gcaggcacac 240
atgcacanat gcaaagacan gcatgcangn acacgnagan gcaacagaga canacatgca 300
gattcacatg cacacacaca tacacacact ggnccctgtt tttctgtggn gtcactgggt 360
gccagnaact ctgtatatta cacctancac taaaacctgg gccttaattt ctctcccgtc 420
cccaccccta aattcctgat ggatgaacct aagaacttnc ctgtacactt caagccggac 480
tgacgtagcc tatgggccca agnaggtcca gngccnacgt tttaatttct ttntaaaaag 540
ctttaagtct tgctgggcgc ggtggntcac gcctggagtn ccantatttt tgnggaggcc 600
aaagcngntg gatnacaacg ngcactggtt cgngancanc ctgaacaaca tgggggaaaa 660
ccctggtttn taattggaaa tacaaaaaaa atnngcttgg gccanggtgg anaggcacnt 720
tgtgaactca acctccaggt tttttggggc canaaagcat acccccacna ngcccaattt 780
aatttnttaa agggaatcct tggtag 806

<210> 4712
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(695)
<223> n = A,T,C or G

<400> 4712
agattaaaga ggaaagcaga gactggttag gttattatag tgtcctaggt aacagttttg 60
gacaagtgtg ataaatgttg aggtgggagg ggttagaggt tggattcaga ctctgttttg 120
taagtagaga agataatgtc tgctgatagc ttggatatga ggaggaaaag gagaggagta 180
aaggatgact cagatttttg acctgtcaat tgggtgaact ctgagattaa attctgtttt 240
ggctatgtta ggttggaaat gctgtgtagg caattggata tccaagtctg gacttcaaga 300
gtacaatttg ggactagaaa attaatttgg gagtcattag ggaataacca tgactttgga 360
tgagatcacc tagtacagct agagaagaga aggtagcaaa agacaganac ctaaggtatg 420
ccagcattga ngaagtanag gagaaganga nccatccnnn ngactgncaa ggacccacca 480
gttgacctta gaagaaaaat caggagctgg tattctggaa accatcngaa gaaaatgttt 540
cacaaanagg gaagtagtat tgaatggtgt naaatgttac ctatattcct ggnaaaaaaa 600
ccacttcanc tgctttttta agtaaatgtt gatantttgt actgcaaata nctttccata 660
ntnctttca aaacatgnta ttttnggncc tttaa 695

<210> 4713
<211> 998
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(998)
<223> n = A,T,C or G

<400> 4713
ggtgnttccc cctgngaaac ctttatacag cctacttgtt ctttttgcag gatcccatcg 60
attcgaattc ggcacgaggn cacattcann tntcannttt tgcancntta tancaanant 120
catngccgan acattanntg nctnnaatag tactgcangc ncancatctn cnnnngatcc 180
ctgtnacctt gnccctggan cactcgtnag ncaagntctg ntcccagatg ncntgtaacc 240
atnantncna nanaananna tcnagggnct ntttntttcc nncaaacaga tgcnatntgn 300

cncnggctgn tgtgntgtng agggcnctan gcncnggcaa ctattnnctt nnangcngaa 360
gtngttacnc ntnanggcnc ncttancttt caatnagnac cacatgcnnc tgccaaatng 420
tgctctnagc taaatnnttg gactntgaan tanggnncna anggtnttgc aataacantg 480
tggatctgna anaagnctgt ttggnnngng acctaatnac ctcancnggg nggnctcnct 540
cttaacnntt tantnccnnt cntnganagt gattcatacc aaggtaccca ngnnnggtaa 600
tanttcnact cntgngatcg naanttntnc cnttnnatcn cnttanagag nggtcgtnac 660
ccangtntgt tcgcttcgcn cttnttttgg ggngaaatgt atntccccat ggaancnttg 720
ggggnnccnn tttgatngcc gtaatancat nggaagtcaa cttggantta aacgggtgct 780
canttannct nagccgaatn tngtcnttgg caaacccttg ccaatacnnc caattacccn 840
atantngcaa agnaaatagg ccnngcatac cnaagnggga ccctttataa attggnnnat 900
ggacttcccc ttnnaagtng aacnttggnc ttagcnaaaa ggcnatnttc ttgtatgaag 960
ntcgcagnan tngnatttat tngggttcta ngggccng 998

<210> 4714
<211> 1523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1523)
<223> n = A,T,C or G

<400> 4714
ccccccccnc ccnacnnnnc acccannncn accccnnacn canacnaatn nncgccncan 60
tcacncaccc cgnntcgann cnccccccncc taaannccna ncgcnctcnc cnggntcgca 120
nnccaccntt gaacctttgc aaanactggc aaacccgccn cnanagcggg gggnggannc 180
acacncacnn canatactan ncnncccacn tncganaacg anagnnnncc cccccaacna 240
ctnaggggca cctcggggnc cctcctccta cgcnacncna ncacatnacn ncctccngtt 300
cannccnngac agnancctct cacnccccac gcctgctncc tctccncata cncncccccc 360
ctcccnatac gncncgacan cccacgccnn nngnannctn nctcatcnna cncacngcnc 420
tacacnnccc acnntnccct tctnggcgca ncannnncnt ncatcgccnc agcncacnct 480
ctnnctcacc cccatcatna cctnaanccg tctacntntn nnccnctcan ctcacgcnct 540
aaccgncann ccncccgnna nactncacnc tcaanncana tcgancccnc tcncaccncn 600
accnnnnnnn cgnncencce accnnncaan nncngtnnnc ccacctcgag accnnncang 660
cnaatacccc cgatcancca ccnctctant ncagncctnc ccgncnncnc ganncacacg 720
angcccncac acnacagcgc antncgncac cncanacang acccanctgc ccncagcgng 780
nnnnggncan aaangnncng cncnccncta cantcntcca cccancnncc ntnancncen 840
tantannacc aagccagtan ncncacctca nctnncgaat cnccancacn ccacanacga 900
ccgcaccccc caacnncagc actctcacna cnnngancan cannntccac nacactcntt 960
ctcnntactc tntctcantc ccccnnncta acngctcact ncacaancna ncncncncnn 1020
anntagccta cgccaacgan acgcacncta nancctacga caccnntcac nacacctcac 1080
cgtaccccnc cngntctncn ctcnancgac ngaancgtnn cacgcncanc acancactcg 1140
agnantcaca cgnnacacct ncacgantac tccgncaccn nnnanntnac nccactngan 1200
cgcatcntct cncctaacna cacnacntac cncacctcac nccatatcca cnctcaccac 1260
tcacacanna ganaagnnna naccgctctc agcacntact cactancncc ncaacncnca 1320
ccacancnca nacgtnanac cnctcngcgn ctcacannag cgnctgnnct gcnnnctccc 1380
gnatannntc gcaccntgan cacncanacn tntcccncng ccccacgact gagcncncnn 1440
tctcnagacn ncanccactn tcnacacnnc nngacgcanc tacngcncca ncncannnct 1500
nanngacnca cngtcccann ccc 1523

<210> 4715
<211> 726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(726)
<223> n = A,T,C or G

<400> 4715
gttatnancn gctcttgttc ntgctnctgg atctttttgc aggatcccat cgattcgaat 60
ncngcncgag tntaggnntg anccattgna cccagccnag gttnttaata nnannnanag 120
cntgctgntn tnaaaagtga aaagaggcca gntgtggtgg ntactgnctg nggtcccagc 180
tnctccggag gctgaggcat gaggatcatt tgngcccagg ctgcaatgca atggcactga 240
tcacggcttt ctgcancctt aacntgctgg gngggacacg gagtaccctg tttttnaang 300
aanantgcag agtacnccaa ttgnatatgn tatataannn caactntcnt aaagganctg 360
tatatnnaat gagtggaanc aaatntggca nacnnttaat ngnacatatn ttgaaactan 420
agctcnttac acttctttga nctacaacgg gtatatgtcn tacttanatg atgcacaaaa 480
ggtgcaccat atatatatat gtttntgacg nnggttntga nagagtttca ctcttgcncn 540
cannctggag aatgtacnga actganatng gngaaatgtc tccancnggg ngatnnagat 600
nnactgggct ntcgtggaag aatggtgtnt accnnaaaat ttggagcctc tttaaacnan 660
tggngaggac ntttacntng gttccccaaa ttgtngaggg gncntttggn gantttnnnc 720
cnnncc 726

<210> 4716
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1554)
<223> n = A,T,C or G

<400> 4716
ccacccncnn ntnnttnatn nnnccntncn acctcnnnnn nncnnnggnn nantngcnnn 60
nnnnnnnaag nnnnctnatg aactnaataa ganntngctg gtctgaaatn gcctaactng 120
aatagggnct ggggggggnc nncngncnna ggntnatnnc gtntccagtg ntntngnnng 180
ntctcggann tnnntntaac tatnnntnnn nanccannan anngtcgngg gntnnnnnat 240
nttnnnnntn natccannna ncacanntcc ttctnntcan tccnannaac ctcntannnc 300
cantccccta tnntcganca gnnnnnccca cngntnnnnn ngtcnnnann nnnaancnan 360
nattcagctn nnacnntann ntaacttnnc ccngcaanga ncnccnntct cctcngntcn 420
accggcnnng nantncnngn tcancannta tntnnntnnt nntctatcct nnnncntntc 480
tagannannn nnntnctacn nnntncaann cancnnncca tanantantc cnnctcngnn 540
ctcnntcctc anncgngnac tntncnngct ncnnnntatc tntnntcnac nncacncnat 600
annnnntctn anantccnnn ttcnacncnn nctnatcncn antgcctann cnnnnccnnc 660
nnnatgtnan ncannatnct ntanancngn ngcnnnctnn tcannnnnca cnctnnatca 720
catntnnctn tnnangannn ntcnntntcc nnancatcna tctncanctc tncanntntn 780
cnntatccgc nnnnnancct ntnntacnnt ccctncatan antanacnnc nctntcctca 840
nnnncnnntn antcnntatn cnnnannncn ctnctctaca cncgcnncng cntcnactnn 900
cncnctatcn nnnnaannтc ncanctcatn acctcnctcn tnntnnntnc natcncatnt 960
atanacnnan actctctntc gnctatnnnn gncnntctnc acagtatncc nctnntntnc 1020
ntannancga nnctccncnn atataatcac tnnacactnt actcnnantn cttactntnn 1080
accnctctnn catccnnntc ncctctnnnc tcatatntgn ntacnntnna ncatctctcn 1140
cancancnna ntacacncnn natncntann ncanantnnc ntncannncn tcnnctnntc 1200
ngtnnnnctc ncactctnca catatatnat ctanctnacn cacncctnnn tnnnnnntnc 1260
tcannnctcn cnnntctatn tgctatacat nnccctnnta ncantatcca nngcccncac 1320
natanctcan ntatctcntn ccttntancn ccctncntcc tcntcanacc cancttactc 1380
tcttantnnc acnctntncn tccncccnnc tntnatccna acncnnnnta nttncatcca 1440
ncnctccgta tanctcccnt nncnncnngc ccncccccnta ctnctctcan ntgnnccccnt 1500

ntnncatntc nctntcnnnc cacccccttcn cnncgnccnt tnntnanncc ncct 1554

<210> 4717
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 4717
tttacataca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgaggtct 60
ctgcaaaaga cccctccgac ccgagtgttc gtggaactgg ttccctgggc tgaccggagc 120
cgggagaaca acctggcctc agggagagag acgctaccgg gcttacgcca ccccctctcc 180
tcaacacaag cccaaactgc tacccgcgag gtgcaagtaa gcggcacctc agaagtgtct 240
gcgggccctg accgggcgca ggtggtggtg cagtgagcag caccaaggag gcggcagccg 300
aggccaaaaa gagcgtttgt cgccgtctag attacatcac gcagagcctc cagcagcagg 360
gcgtgcaggc agaaaatata actgtgacaa aggattttag gagagtggaa aatgcttatc 420
acatggaagc agaggtctgc attacattta ctgaatttgg aaaaatgcaa aatatttgta 480
actttcttgt tgaaaagcta gatagctctg ttgtcatcag cccaccccag ttctatcata 540
ctccaggttc tgttgagaat cttcacggca agcctgtctt gttgctgttg anaatgcgtg 600
gcgcaaactc aagaagtctg taccttgtgg ccaaaacctta ngaaaacctt tctaatcaaa 660
gaagaagaac aaaagaatgg gaaggccaat agatgatcac cagtcatcca gactctnaag 720
ttcattactg tccacaaaaa atcaaaagtg cacaatactt ctg 763

<210> 4718
<211> 953
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(953)
<223> n = A,T,C or G

<400> 4718
nggtncaccg naacaacgnn gaatccccca annncncgan acagaaaggc aggggtgngg 60
ccngagagcc gngcncacng ggcacancag cgacctttta ggcnttnctg cactgncngn 120
cccactgccg naannggcac tnccccacgn acgagnntgc aacgagacat ccgtacgtgc 180
tggacaacct tggagagaag ccgtatncac nncacangat aaaancgcca tggaccacga 240
gtgccnnggg cactaccgan gagccgcctc cnggaancnt tnccaagngn gagcgcccna 300
ccgacngtnn gcngatcaga nacnggagag gnggagngag aagactccng cngcncgggc 360
ccccctgggg agcccccgnt ccagggctcg cnccaggacc ngcngcacaa gangactagc 420
tngcagcnac cngcnttccc cagtccannc tgaaaaacta caaaatnaaa ngcgggaaaa 480
gcnctgtann gagaanggnc ntccncgcan ctccnaggag gnaaggcngg agannncccc 540
gctcgnaaan gnangnagca agggaaancc ccangggncg ggcccncnag aaggccccnc 600
ccnncaanaa agaangccac aacaanccaa gangcnagca cgggcnngcc cngcanaaaa 660
ccccccnnac acnggaaana cncccgcgna nanngcaann aacngnatac nggaaangca 720
nagngcncnc ananaacaag cgcncncccn nacnagggnn acacaaaann ccngagcgcn 780
cncgagcgcg nnnanacaca angcnagcac agggacacnc ncagacgnaa annnggncac 840
anacncgggn nagaacccan cacgaaaccn acnacncacg agggagagng nacnaaanaa 900
nncgccccca cgngananna aanccaacnn nncgaanacn nacggannac gcc 953

<210> 4719

<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 4719
ttnantnngt cattcctgta ccagctactt gttctttttg caggatccca tcgattcgnn 60
gatatngnnn gnctanncaa agtgggaana ncttncnggc tgngaaaaca ngctntangn 120
ccnaanancc ngntttacan gtnnaanact ntgtnnnntt tgagcatgtt nncnggtctt 180
angnngntat tnnanngtan ccactttgna gaggngtatc tggcaacttt tcnncttatg 240
gttcaattag ntccngnntg cacantgagn ntgatnatta cttgtgagnt gagctcntgc 300
gttttaccga cttctggctn ggnactggtg ccattagcta tnaanaggcn tttngtnnca 360
taannttcng gtaannтgan ngatctntna agatncccct ttaattcgtt agtantacca 420
ttacgtagnc naatttanga tncnnattcc cnaattttna ncatnnccan ntgtaanatc 480
nntgaattan cagnacnncc nanngccctn tnnaggnttg atttctcgat atttgactnc 540
ntctggnngn ananannggc naagaanttn accattggct angnnaaann agngtgntgt 600
tagggtnaaa ntcaccntnt ttttnnacna atcnntggaa cantttacna tcanttngna 660
naaaacnnta nnnctttgc ccnatgggan ctntttntta aanccnntnc ctttttntaa 720
cnnttttttn aacccntgga aaaaattngn taaataaaat ntngcccttt aaananttnt 780
tcgnaattnn gaatatctta anggcccttt taaaaatatg gncccgttt atggngaaaa 840
ntnattgcca gccantncnt 860

<210> 4720
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 4720
ngtctnttaa cgngctcttg tcnngctact tgttcttttt gcaggatccc atcgattcgg 60
tcaactccat ctgcagtgtt caaggcactg tggttggcgt ggacgagagc actgctttct 120
catggcctgt gtgtgacatg tgtggcaacg ggagattgga acagaggccg gaagacagag 180
gcgccttttc ctgtggggac tgctcccggg tggtcacatc tcctgttctc aagaggcacc 240
tgcaggtctt cctggactgc cgctcaagac cgcagtgcag agtgaaggtc aagctgttgc 300
agcgcagcat ttcctccctg ctgaggtttg ccgccggtga agatgggagc tacgaagtga 360
agagtgtcct cggaaaggaa gtggggttgt taaattgttt tgtccagtcc gtaaccgccc 420
acccgaccag ctgcattgga ttggaggaaa tcgagcttct gagtgcagga ggggcctctg 480
cagaacacta gcggttgccg caggatctgt gaactttgca atgtggctgc aagggtggtg 540
gtggtggtgg tgatttgggg tagttatttg ttaactatgg cacagtgaac gtagtttacn 600
atcttgaaat gaaacttana ttttctgggg aaatgttcan atcagttntg tgaactgtaa 660
atnaaaatac cttttctaca gttatctttn attttctgca aattangaac ctnt 714

<210> 4721
<211> 868
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(868)
<223> n = A,T,C or G

<400> 4721
tttcnngttt aaacnccttt aaaaatntgn nacttngatn nagtntaaag tnnccccctct 60
atatattgna gtancncctn taaaacatca ggaaaattaa ggnggtctnt ngggggggtg 120
atnttcnatn ncnantgaat aatgatccaa gnntcntant angaannaan gcnctatata 180
nanntantan tactntttgg ntnnnnnanct antanantct annntactcn ntanatanta 240
tcncnangtn ngcatacnat ntnatcnttn nntnntttac tncattatct ctanatattn 300
nnncnttntn ntntancatn cntncnanct ttcnnnctta ttnatantnn tttaantttt 360
tcntntcnct tcncnnnnca ttnataattn atnnnttnnn nnnntnantt ctntcaatnt 420
ntcatncctc nnnnctcnna nctntntncc tnantnnntn tccantttnc catttantnn 480
ctannnnntn nnctcntntn tntttntnnc tcctaancct ctnttttnnt ctcanntntt 540
nttcnncttn tnntttattt ntntcntcnn ncnctcnnnc tttncnncnn tntctttcna 600
tantntctnn ccanntctnc atatcttnnt nncnccttaa tnttacnctt ncccnctncc 660
ccctcnnanc attttcnttc tccttanant nnntnccttnn tnttaanata tnnnnnttta 720
tttnnacttn tttgtttgta ctnctnntna cncanantca atnacacatt tatcncattn 780
canatctttc naantcnctc nnattncact tnattcacna ntctncaatt cctacatnct 840
ntatnctnac ntcatattnn ctcccnnt 868

<210> 4722
<211> 1612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1612)
<223> n = A,T,C or G

<400> 4722
gtnnctcaaa tcngcagcac gnanagtnca aagngaagng gcnctctaca tatgagaccc 60
tnaaacatca ganattaggg ggtctngggg gggcctcnnc anatncnnga atactatccg 120
nggccctttt nngntnannn ntagagannt gggnggnntn nncggngntn tntctancnn 180
attcnncttt catctcctac tcngggggnn nactnnnnac tctctnacan ccctncnttc 240
nntcnnnncc tacctccctn tnncnntccc gnactnaaca cnctntccna cnttnctttnc 300
actcnatann ccnccnacnc tcttacnntn nccaccacgt atctcctncc nncnctctct 360
nnaccnttan natnntnact cncncnctnn cnttcctata nctcagcnnn tcnactccgc 420
ccgtcantcn gctacngtcc nncnntctct nnnnangctt cctnnacttc ncnntcanca 480
caatntncct catctnncca cttntntncn atatctctca ncctctnacn ntcnnnntca 540
tcnnnacaaa tntctncntc canatccatc ttntnnnnan nnaccatntn anntagntcc 600
nactactntc ccacgtanac ntntctntnt cccncatctc acntnntcta tnatactctn 660
cnctcctcac nctatnanat cnnatancta tcctatcact nttacnaann ncctcacann 720
ctntccnntc tctctctann accttcacnn ttcnttcnat attatntact nntnaccana 780
tancacacna cnctcccccnc ntatanntac acntncacnc actanacnan ctcncnctca 840
tactctantn tcctncnntc ttatatcnnt ctatcatata ntnacncaag tcnctctctc 900
atntaccnnn antnctnncc cactacnnct ccnctancta cnatacatnc acannnnana 960
tcanataccn ntctcnatnc nctctcntct ctntntntca cnctanattc nnatatnccn 1020
ctatcnnctt ccnnnntgnc tcctactnct ncctccncct ctctcntcac tntctnannt 1080
anctnnntct nttnctttctc ctcncacngt accnctcnat atcatntntc atcnctcntc 1140
catanatncg nnacancnta tatctctcct ntntncccta nnatncatct nctccnntnc 1200
nncatctcat annnccnnct gtcanacnna ngctctctcn actntccanc tcctcnnctc 1260
gcnacngact nnatcncnat tcctctnttn gactccncct antcatcncc ccctacnacc 1320
aacaccanna tactnntcnn ntcncctctn aatntcacac acantncann ncaccntanc 1380
ttatctcant tctgntnacn catcactact cttctcatct acacatnant nnancctnat 1440

tncttctacn ctctcnttct cncntnatna nnctntacan gnctctncca tntctcnccc 1500
ctcctnctnt ntnnntcanc nntcacncna ccantcannn ctanccgcat ctatattatn 1560
ctcatatcct ctanacanta tcctcanatc tcactnctan nnatancnac ct 1612

<210> 4723
<211> 1503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1503)
<223> n = A,T,C or G

<400> 4723
ctaaaattgt ctncgtaaat nctntnnnnt gtacantagg aacggcnctg acatatgaga 60
cncttaaaca tcnganatag ggngtctngg gggggcgctt gcntanccnt gnanntgact 120
nacgnnccan ttgaantaan nctttaanga nattanggcn ttttncgcgc ntctcnctca 180
anctcnntat tncantntaa canngngggn gcntcntntc ancatcnanc ncttnctact 240
tcctttatnn cttctnctcn cttcnnacta cttntactnt nncntncacc nnaccancat 300
tnnantntnc ancctccntc ntancnttcn ctnnncncat ccnttnnccn cntcantcct 360
ctaacncnct annnctcctn tntnccanat tcatnccntt nnttnancct tntcntcctt 420
ntctatcatt ctacnctatc ctctcctaac nctttttnnt cnnctcacnn tcntcntaca 480
ctcnnccanc nacnnaacca ccntannnct ctnncnttcc tctntantac ntntcnatct 540
tccnnncann tnattctnac ntantntntc attnacacnc tcnnnctann tatnntntta 600
tctctanccc ctcantanat ntcntccatn ctcaactntc tcacctctcc ctctanatcc 660
ncctnttnta gnnactcctc tgttnnctgc tantattncn tatacntctc cnntcntact 720
ntnttttata tntacanctc ntcnnnctnn cctcncntnn acncntnaat accctcatct 780
tatatntnnt ntncnnctnn tatcntnatc ttananccta cantnttcnt cataatcnna 840
nnncactctn tanntgcaca tntanactnc ccnncncanc tctttatacc tntnctatac 900
ntcacnntct ntnantnact cnatnactnn catacactca natncacctn ntnnnatntc 960
nccatatatn tntantanct cntctctcna tattatatat ntntctntct ntncctnctc 1020
ngnnctctnc tntatcanac tctctatncn caccaactat nnttcnannt ncnnnctttc 1080
acnnnntnac cantcnttcn nancnctatc ntctctccta tccacttnna tcntaactct 1140
ctcatatacn cnantcatnt cnnntncnac nctcntntnt ctcncancct cttnnctact 1200
acnnttatct actcactcta tntctctnnn ctctacantc tcnctntcgt ntccacntta 1260
tctnnnnnca ctatctctnt cactctnanc ntaaacctcc tccttntnca tntcacntct 1320
ctatnccatt tctcaatanc actcncncac ncattcctct ntcncatcta tctcttnccc 1380
anctcntctn tctcannnan tngttnctct atcagnactc ctatatantn tatctcnatn 1440
cttnatatca canncatnnn cttctcnnac tcatatnntn ctntantnta ctatcttntt 1500
cct 1503

<210> 4724
<211> 1309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1309)
<223> n = A,T,C or G

<400> 4724
cantggnaan tntcccgacc tangactagg tnnaccnncc angnggggaa aaaagccccc 60
caganagnnn gaggtttgga gggngggaaa aaagannncc ggggggaggg gggggnnttg 120
gaaaannngg anacgggggg gcacgnnngc gngcgcacnc ntnttttttt cncncccgc 180

nccnttnntt tccccncncc gcncggagtg nncnngnagn ggggggnggn nnnnaganaa 240
gangggggag gggaanannn gttggggngg gggggncna gagnggggag gncnggcnga 300
nannangcnn gggggggggn gagcagangg anggngncaa gggggngnng ggngnggnga 360
ggnanagcan gngaggggga ggnngaagag ngnggagagg gnaggnnagg nggngngnng 420
ggnagnancg ngngaggnag nanaggggaa ggngnagngg ngggggggng angagggga 480
cgnnnnnggn nngcngagna gnnggggnng ngnnanncna ngncggngga ngnaangnna 540
nggnnngngg cnngcgnnaa gaggnganaa ngggagngcg ngggggggcg gngngancgn 600
ggnagnagng anngnggcnn gaganggnga gngnngnggn gcgaangggn nnnggnngng 660
gggngngggn cgagagnggn nggngnnngg cangtnaaag gnnnagggna gaannggnac 720
acggaccgnn ngnggaganc gnggacgaaa nngnnnagac gngnggacga ganacgcgng 780
gnanngangn ngggntgggg annagaggag cgcgngagaa cgcncnnnng gagannngang 840
gagngagagn gnggnacggg nnnanngcgn gcaagagaga gacgagngac gcggagngng 900
agagagagag acngaggaga gagannnaag acngacggag agcacggcgg aggnnnncgc 960
gacgacagag aggnaggacg naganaggng anncgannga gagggncnca ccggaannac 1020
gnngagacna cnnagngngc gaggaacacg gngcgcgana ggaggagaac ncgngangga 1080
ngacgncgng nancggnnga cacgnangcg ngagagannn agagagggac gcacgaagnn 1140
cggaagagcn gangggaaga nnannancga gnnngagaan cggagngagc anaagggagg 1200
angggtcaga ngagaganag cacaancgng agaggnngan nnaggacgac ggnggagaga 1260
gaancangng ggnagaagnn cngancagga agggcgnggg naggngcgc 1309

<210> 4725
<211> 1359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1359)
<223> n = A,T,C or G

<400> 4725
aaaaaaaaaa aaacccccnn gggggnnanc ccctnctaaa aaaatnnagn nacctnctgn 60
naagggcgna aaacnnnncn ccctcnnanc aanatnncag nnccccccct aaaaaccatc 120
cagggaanaa ttaaaggggg cgtnncctntg gggggggnnn nnnnnnnnnn nnnnnnnncc 180
cnnnnnnncn nannnnnnnn nnnnnncncn nnnnnnnnnn nnnnnnnnnn ncnncnnnnn 240
nnncnnnnnn nnnnnnnnnn nnnnnnnnnn cnnnnnnncn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn cnnnnnnnnn nnnnnnncnn nncnnnncnn nnnnnnnnnn nnnnnnnnnn 360
nnccccnnnnn ncncnnnnnn nnnnnnnncn nnncnncnnn cncnnncccn ccnnnnnnnn 420
nccccnnnnnn nnncnnnnnc ncccnnnnnc cccncnnncc nncncnnncc ncccccncca 480
ncnnnncncc ncnnnnnacn nncccncncc naccnnnnnn ncccccncnn ncncccccnc 540
nncncnncnc cnnaancnnn ccnncncnnc ncnncncnnc cnnncccnnc ccncnnccnc 600
ncnnannenc nnnnnnccnn ccnnccnnnn ncnannnann cnncnnnnnn nnancccccn 660
acncccncnnn ccncccccnnn cnnnncccnc ncncncncnn canancccnnn ncncncncnn 720
nnncncccncn cnncnnncnc ncnnnancnn nnccnncncn ccnnnncncn naccnnncnc 780
nccnncnacn cnnancccncn cncncccncnn cnnncccccnn nncncccccnn nnnnccccncn 840
nccnnnnnnnn nacnnnnnnc cnnnccncnn nncnncncnn ccccnnnccen cnnccnnccn 900
nnnnncnnnn ncncncncnc nnannccnnnn nnnncncnnc nncncncncn cnnnnnannec 960
ncnncncnnn nnnnnnnnnn nncnnncnnn ccnncnnann nnnncncnnn nccnnncncc 1020
nnncnncncn nncacnccnn cnnnnnnnan ncncccnnnc nccncncnnn ncnnnccnnn 1080
nnnnnnnnnc cncnnnancc nnnncnnnnn cncccccncnc ncnnnncncn ccccnnnnnn 1140
cnnnnncnca cncccccccc ncnnccnnnn ccanncacac nccncncccnc ccncncnnnn 1200
ncncncncen ccccncnccnc nnnncncnnc ccnncnccan annnncnnnc nccccnnnccc 1260
nccncannnc nncancacnc nnncncncnc nncnnccccnc nnnancccncc ncnaccncec 1320
nnnncccccn accnnnnncc nncnncncnc cnccancct 1359

<210> 4726

<211> 10
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = A,T,C or G

<400> 4726
nnnnnnnnnn 10

<210> 4727
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4727
nngctctncn attnnntgng gncttgctcg ntaccncnan ncngnggnna atcgattggg 60
cccgaggtng atnnatgnat actactcctg cgcgtcagtt ctcacttttt ggggccctgc 120
cggctggatn acngtacanc ctaaannngg anctnctacc tggccctcta cangcagatn 180
atcanncngg acaagctagg ctgcncgcgc acggcgctgg agtactgcan gctcattctg 240
agtctcgagc cggatgagga ccccctctgc atgctgctgc tcatacgacc acctgncctt 300
gcngncccgg aactactagt acctgatccn cctnttccan aagtgggagg ctcatnnnaa 360
cctgtnccag ctccntaatn gtgccttctn tgttccactg gcntatttcc tgctgagnca 420
ccagacanac ctncctgagt gtgancagag ctatgccagg cagaaggcct ctctcctgat 480
acagcangcg ctcaccatgt tccctgnagt ccttctgccc ctgctcgagt cttgcaagtg 540
tncggccnga cgccagngtt nacagtcacc gctnctttgg gacccaatgc tgaaattaag 600
ccaaacncct gcccttgacc canatggtna accttgtacc tttggnaagg tcacactttt 660
ttnttggaaa aanaacccng gcancnnttg ancttggctg gaaggaaaaa cgtccccgan 720
gatcttcaaa gcaaatggat gccggggaac ccaaaccctg gnaagcctgg ggagaaaccc 780
gggggaaag 789

<210> 4728
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4728
nngctctncn attnnntgng gncttgctcg ntaccncnan ncngnggnna atcgattggg 60
cccgaggtng atnnatgnat actactcctg cgcgtcagtt ctcacttttt ggggccctgc 120
cggctggatn acngtacanc ctaaannngg anctnctacc tggccctcta cangcagatn 180
atcanncngg acaagctagg ctgcncgcgc acggcgctgg agtactgcan gctcattctg 240
agtctcgagc cggatgagga ccccctctgc atgctgctgc tcatacgacc acctgncctt 300
gcngncccgg aactactagt acctgatccn cctnttccan aagtgggagg ctcatnnnaa 360
cctgtnccag ctccntaatn gtgccttctn tgttccactg gcntatttcc tgctgagnca 420

ccagacanac ctncctgagt gtgancagag ctatgccagg cagaaggcct ctctcctgat 480
acagcangcg ctcaccatgt tccctgnagt ccttctgccc ctgctcgagt cttgcaagtg 540
tncggccnga cgccagngtt nacagtcacc gctnctttgg gacccaatgc tgaaattaag 600
ccaaacncct gcccttgacc canatggtna accttgtacc tttggnaagg tcacactttt 660
ttnttggaaa aanaacccng gcancnnttg ancttggctg gaaggaaaaa cgtccccgan 720
gatcttcaaa gcaaatggat gccggggaac ccaaaccctg gnaagcctgg ggagaaaccc 780
gggggaaag 789

<210> 4729
<211> 1064
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1064)
<223> n = A,T,C or G

<400> 4729
cnttactaan ngnntgctat cgntctttcc gnangagccn agcgattcga gtggctgagt 60
ggaggcgccc agacctgggc aggcagcagg ctcaggccca caccttgng attttgaaa 120
ccaaagccca gannatgatg tttacttntc tctccctggc tctgcccttc ttactgcaaa 180
ccatgctgtg ccttagggcc cttctcatag ntgttcctna tggccatgac tggaacaggg 240
atgcaacctn tttntacaca agcacagant agnttgngtg aagnntnttt ntnactccgt 300
ttacaccngt nnttcnnttc tanntgccna nancttcatc caatcngntc annnnnntnn 360
ctcactcnna cccanccatc cnannnntcn nnnnnaacnn nanttcnctn ctntacntnc 420
cctaacncat caatnnnttt nntnnnnatt annntctctn antatattna ctcnatatcc 480
tcncactntt tcatactcnc nattactctt nncncntacn ctcatcacat acncnttaat 540
nnnnccnntn ctntatacna ncatnttctt nncantctac ancgactatn atagtcntct 600
atcnncntnn aagnctntnt naatnntntc tctganacnc ctcttacgtg ntcttactnt 660
acntcaatnt ngctcatcat cactctcnaa cggtatactt catttnngtg tatatatccc 720
ncatctnctn tcancactcn tctctctact ntatntcnca cttncgncac ncacgatata 780
nnatctncta cactcanaat cacnnnttat natcntttta tanctcnnan tntaacngtc 840
nttntctnna tcntnctntt tcganatctc nncacntntc tntntatnct tnttcttcnt 900
ctntaatatc nantcatctt agtctcnnna nccaanatnt nancntncac tctntctacn 960
ttntctnctn nnnacacttc tactatctcn aatatatatc ttnntancat annacnncac 1020
ctanatnant cctctaannt aacttcatct nctntntact annt 1064

<210> 4730
<211> 915
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(915)
<223> n = A,T,C or G

<400> 4730
atnnanancn tanaanctaa acnattnnnn tatantnanc ntnnnncnct tttnncnata 60
ctnnnntntc cnnnnnnttt ttaagcnttc taaatgcttg gcaatcgccn cctantannng 120
gcntggngat ncgcnccagn acctgctata gttnngnnac nnaccacacc cttncannaa 180
atcttaacaa gggggnnggg ataaaanaaa aacntccaca attaccttaa aagggactct 240
tatgntttca actacanata gttgtaaagg atcatacaca anatattgat gatanttgaa 300
atattcttag aaggggtgtg tntgtctanc tgngtctacc atgngtantg tattcntgac 360
aagcactnta aaatacctgn tnatnnttct atacattacg nataatngcc ataangantt 420

aanctncata tatntcatca nccctaattg aatcannnnn aaatattttn attgcccatn 480
anatctaatt tcacttatac tatcccnana atagtaanac nactacagct nnttacncna 540
tntaaacctt tnnnanntnn cacaatatna tacgnnannc canttatcna ttangnnttn 600
naanaancan aantncaann atttcctnat cnaaatcaca attttctncn naancaaata 660
ntncattccn accncnnatn ccncagaaaa tntncacctc ctatcaatat ancaatntat 720
tnanaccang nnncncnant ncaatgtttt ctcancattn nncttntant ctatntactn 780
cnttcnntta acanatatnt tcanaantcc anattncatt tcacttntac tacaccnnaa 840
caanacntca aaatanaagt ncanatacan ccnaantccc ncatntanna ctntannacn 900
cantattncc ntncn 915

<210> 4731
<211> 1479
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1479)
<223> n = A,T,C or G

<400> 4731
agcctcttaa actncaantt ntaacttcnn nangcnaaac gncnctctat atatcgcngt 60
ancnccttaa aacatcatga nattatgggg gtcttttngg gggngcnnac taccatctat 120
catcnctcnc nnntacnang acccccttnta cnactactnt cnctcttnat gannngctcc 180
gtctnncnnn ctcnntannn ttatctacnn ctctcttctc ncctcntcat nnctnncnaa 240
ncattcctcn cctcatatcn actcccctctc aattcancca tctatatntc tnanatcntc 300
ancattacgn tattntacna cacactctcg naacncgctc tntnagatnn tctctcacta 360
cncnntanca tnnntcatca tcanncnata ntcttcanac agnncccttc ctctccngca 420
tctccttcct ctcatnctnn cnnattnann nncntcctac tcactnntcc ctntcncacc 480
nnancntanc cncccntatn ntcncccccn tgccntnnta ctccctnccc cnttcatccc 540
cntntccnac tttntcancn nnctnncctt actnnatctc ntctntatcn ccccattatn 600
ctnnnnnncc tangacncnn nnctntcaat tttccccatn nccnccnnnt tnncgctnnn 660
ctttcngcnt ctcncnttac ccnttntnct annnctcntt nanctcnncc cnccctcttt 720
ncantcganc natcnnnccc tcnacnatct ntannnnctt cnncnnnnnc ntatcantcn 780
cctccncact catccatcta cnncaccnca ctctanactn tnnccactnc ctccactctc 840
tcctctancc tcnctctcan ntnatccttc tcctcntctc attannantn anctcccntt 900
tnaaatccnt cacncatact naccatcttc nccaactntn tcttnnntcc nattncatnt 960
cctcccntaa nntanncaat ctctctnntt cactcacanc tnnacactcc attctcnnta 1020
nnctctcnac anncactcan cttcnactca tanactcaca ctanccnntt tnnntcttac 1080
antccnacnc ntanatttct ctccnnntnn atcacanaac cacatctatc tactatctta 1140
tcactccntn tctcacgtnt ctctctcacc ntntatnctn aactctatat cactcaancc 1200
atactctnat canatcttgc tcncacctat atnctctctc ncaccctact cnctcctaca 1260
tgtcnacatc ttccntcnct ntataccacn canttactna ctnncnccan actcngccnt 1320
acnctactac actgcantct ctatctcntc nctcgacacn cncttctngc nccccactct 1380
cntcttntct cnnnctcnac tctctctntc nantcnactc tcccncacat ctatatntat 1440
tctctctcct atctccnctc ccctcctact canaccccg 1479

<210> 4732
<211> 1764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1764)
<223> n = A,T,C or G

<400> 4732
cnaccctnca aaaaattcat ataccanaca nntnaggcct cttggnanng gcnnccttcn 60
naacatnaat tgcnagtacc cnccttnaaa aaaccatcat gnaaaataat gggggngtct 120
tttnggggggg gnggnacnna antcaantca ancccatnaa accacnaant tcncgnaccc 180
cttaaaccgt naananatnc actancanan natnnncctaa gtnancnttc ctgnnnctnc 240
ncnnacaacc taccctctan tnntcccctc ctattnnntn cntnctccca cnancnnncn 300
cncntcctcn cctacatntn ttccanataa cncctcacnn nccctacnnc cnccacatct 360
ntanaacccc ancacncctc cccacctnca nncatcnnac ctactcnact nnacantccn 420
ccncctttct cnnctcnnnt anttcactac ctcttnnact accccaanat ctacntcccc 480
ctctctccac ncacanttac nctctcanca actnccancc atnccncncc atanacacct 540
naccncncen tnttctcccc ntaaccaaat nacctccctc nattcatnan tnatnnnnac 600
cnnctatccc accncantan acntcccacc nnactaactc caccacctcc cactactntc 660
tctcctaatc nacnctancn cntccaccan ntcantcctn ctcantctcn nacaccnntn 720
ntacnatcca tnnctcnana ccntctnntc canacccctn ctntcaatca ctnctacata 780
tncccatcnc tatatantnt nctctctcat ctcnatccaa tcctcnccnc atacanctct 840
ntacatctct cncnctcatc actnantctn ctcnctcnac tnntntcacn cnacactnac 900
ntntcacnna ctatccnaca ccatacattc tnctccannn ctaatcacca catctntaac 960
tacnnccaca cncancnnca cnacncccat acnctcctnc acncnctcat nnaccaactc 1020
cncnncntan catcncncna cactacacaa ccatcaanna nnntcctctc atannacacc 1080
tntntntcac cacntcnntn tcactacact cactataann ctctntncan ntctancata 1140
cctctnnact ntcnaccact ctccctcact cactctccac natcacntct ctcacactca 1200
tatcatccnc tactctacnc nttaacnctc ttatcancat acatntcatc acttcnaacn 1260
cntctntcnc ancanctanc atactcncct nntncntcnc actctctatc cntacanctc 1320
aatccaattc ccactncnct catncatntc ncctcacnan ctcacctcat tntactcact 1380
ataannncctc acctcacccn acactcccct tantcccnnc tctcctactc acactctcac 1440
tcactctcnc ctcnacatcc tcancnnttc ncanctcacn ctatcnncna tatatntcnc 1500
taatcatcnc ctntcacana ctnctntcac actacacnca ccctnctcan ctnctnntnt 1560
ccctctctac tcttctntcc ancacatctc tctcactana cacncatntc cntccatcan 1620
ancanatcan anacncctat acacnntnca tactctntnt atcaatatcc cctntcaaac 1680
tcnctcttct tannactacn ctatcactnt cnctctcaac tnctactata tctcactcan 1740
tctcnnacnc tacantntcn ncnt 1764

<210> 4733
<211> 953
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(953)
<223> n = A,T,C or G

<400> 4733
nggtncaccg naacaacgnn gaatccccca annncncgan acagaaaggc aggggtgngg 60
ccngagagcc gngcncacng ggcacancag cgacctttta ggcnttnctg cactgncngn 120
cccactgccg naannggcac tncccacgn acgagnntgc aacgagacat ccgtacgtgc 180
tggacaacct tggagagaag ccgtatncac nncacangat aaaancgcca tggaccacga 240
gtgccnnggg cactaccgan gagccgcctc cnggaancnt tnccaagngn gagcgcccna 300
ccgacngtnn gcngatcaga nacnggagag gnggagngag aagactccng cngcncgggc 360
ccccctgggg agcccccgnt ccagggctcg cnccaggacc ngcngcacaa gangactagc 420
tngcagcnac cngcnttccc cagtccannc tgaaaaacta caaaatnaaa ngcgggaaaa 480
gcnctgtann gagaanggnc ntccncgcan ctccnaggag gnaaggcngg agannncccc 540
gctcgnaaan gnangnagca agggaaancc ccangggncg ggcccncnag aaggccccnc 600
ccnncaanaa agaangccac aacaanccaa gangcnagca cgggcnngcc cngcanaaaa 660
ccccccnnac acnggaaana cncccgcgna nanngcaann aacngnatac nggaaangca 720
nagngcncnc ananaacaag cgcncncccn nacnagggnn acacaaaann ccngagcgcn 780

cncgagcgcg nnnanacaca angcnagcac agggacacnc ncagacgnaa annnggncac 840
anacncgggn nagaacccan cacgaaaccn acnacncacg agggagagng nacnaaanaa 900
nncgccccca cgngananna aanccaacnn nncgaanacn nacggannac gcc 953

<210> 4734
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1046)
<223> n = A,T,C or G

<400> 4734
gtanctnatt nttttgatgg nctaaatngc cctaaatagg nnngngtngg ggncatacnn 60
cancnangtn cnnaaatact nnngntacan anctatggtc ancaacatct nactnnaaac 120
ccttatgnta aaaanaaacn ncttgccttc agccttcaag cnattatatc ngctctcatc 180
cctncngnnt acgncgnnan tatatgtncc ntnccaccac nanccagtta atnctnaagt 240
atcnanatac taccagcatg ggtantcaca anctgntncn ccagcnatnc tnaatntctc 300
ngngacctcc nganccnnnc ncntnnnnct nnnanngngc ngncattaca nnccntnanc 360
cactgttncc ngacctcaac nntcttacca anaatgtnnt nccnntgnat gnanttttac 420
atggcnataa cactattgcn tttncaannt cccnnacctc ttcnntancc aananttnnn 480
ntnnctngtc ncananntgt cncctcattn nnannnctcn tgtnacnnnn tcnnnntact 540
anntagcact atnattatac ngtnnatctn tacanannct ncatnnctan atnttacncn 600
anattccctc tttngctcac ttnncatata cttctcancn nactctcgcc gangtctctc 660
gnnatatctn antanctnat ntntgnnnna gcatcatatn tgctactcta naaantcnat 720
gagtaggaat actnnnnctt cannctcana aacactctat ntncacatct nncacacacn 780
nntagtgcat atanantcct cnngangatc naantctcct nnanctcgnc tcnntcgtnn 840
ctncanacgc nntcactnga ttctntnnnt annnacaaan acnatacngc anaatnacat 900
ncnatanann ctntntcacg nnncatcgta tntctnantn tnntncgnca nnctnctncn 960
tgctacacat ntatancatn tnntnatcan tctatncaga ncantnttnc atcaaanacn 1020
ntncctncag cngtnannca cctnct 1046

<210> 4735
<211> 1337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1337)
<223> n = A,T,C or G

<400> 4735
cccnnaaaaa aattnnaanc cccccgncgt taaaaaancc ctcttaaaaa aaatttggnn 60
gcctnctgna ggggggcnna aacnnnnccc ccctcnnanc annatnnnng nncccccccn 120
ctaaaaacca tccagggaac aatnatgggg gcctncnntt ngggggggnnc cnnnnnnnnn 180
nnnnnnnncc nnnnnnncnn nnnnnnncnn nnnnncnncn nnnnnncncn nnnnnnnncc 240
cncnncnnnn nncnnnnnnn nnnnnnnnnn cnnnnnnnnn nnnnnnnnnn nncnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn ncnnncnncn nncnnnnnnn nnncncnncc ccncncnnnn 360
nnncnnnnnc nncnnnncnc ccnnnncccc nnnnnncncn nnnnnnnncc ccccncnccn 420
ncncccccnn cncccnnnnn nccccccccn cnnnnncnnn nccccccccn nnnnnnncnn 480
ccccnncccc ncccccncccc cncncccccc cccccccccc ncccnncccc nncccncccc 540
ncncncnccc ccnnncccnn cccccncnnn ncccccccnc ncccccccnn ccncncnccc 600
cccncccccc ccncnnnccc cccncccncc cccccccccc ccnnnncccc cccccccccc 660

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ccccccnncn ccncccccce cnncccnncnc ccncccccce ccncccccen ccncccnccc    720
ccccccncccc ccnncccnnn ccccncccce nncccncccn cncccnncen ccnncccncc    780
ncccncncnnn nnnncccccnc cncnnnncnn cncccccncnc ncccccnnnn cncncccccc  840
cncccnnnnnn cncncccnnn cncncccnnnc cncnncccnc nncccnnncc cnnncnncnn   900
cnnncccccnc cnncncccnnn cncnnncccn cncnnnnncn ncncnncccn nnnncncccn   960
nncncncnnn ncncnnnncn nnncccnncn cnncncccnc nncncncnnn nnccccnnnnc  1020
nncnncnnnn nnnnncccccn cnncccnncn ccncccncnnn nnnctcnccc ncnncncncn  1080
nncnncccnnc nncnnncnnn ncncncncnc ncncccccnn ccnncnncnn cncccnnnnnn  1140
cncncccncnn nnnncnncnn nnncnnnncn ccnncncncn cncncnnncn cnnncnnncc   1200
ncnncncncn ccncncnnnn nnncncccnc ncccncccnc nnncnnncnn ncncncccncn   1260
ncncncncnn nnccncnnnn cncccncncc nnnncnnncn ccnnncccnc ncccccncncc   1320
ncncncncen nnccccc                                                   1337
```

<210> 4736
<211> 1312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1312)
<223> n = A,T,C or G

<400> 4736

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ccctnaaaaa aaatttggng gnccccnggg ggggnnnnnn nnnccccttta aaaaaatatg     60
gaggcctctg nnggggagna aacnnncncc ctcnnancat atncaggacc tcctcnaaaa    120
catcaggana aaangggggt ctgggggggg gncnnnncna nncnncncnn acncnngcna    180
nncctnaanc cnnnananac tnnnnnnnnc nncnnnnnnn nnncnnncan ncccncncnn    240
gncnnnnnna ccnncccnnn cccaaccnnc nncccncccn cncncccnnn nnncnancct    300
cncccnnncn ncctccnnnc ancnnnncnc ncnacnancn ccacccannn nacnnnnccn    360
cccncncccc ncncncnccc cancancccn ccccccaccn ncnncccccc ccnccancnn    420
cacccncncn ncnncccncn cncacccncc ccacnnncnn cncnncnncc ncccncncnc    480
ccccncnnnn nnncccncnc nncctacnnc cnnnncncnn nnnacnnnnn ncnancnncn    540
cnacnaanna ncnacnnncn ncccannnnn ncaacanacn nncccncnnnn ncncccncnn    600
ncncnanann nncnnacnnn nnnnnnncncc nnncnnncnn acncnnnncc ncncnannnn    660
ncnnnnnnnc nnanncncnc ncntncncna ncnncnnncn ncnnnnnnnn cnnannnnnc    720
nacnnncncn cnancnnnnc ncccncnnaca cccancncan ncannncntn nnnnnnncan    780
cnncncncen nncnnnncnn nncnancccc ncncncncnc nnnnncnnnn ncnnnnnnnn    840
cnnnnnccnn nncccncann nnnnaccnnn ncnnncnnnn cnncannccn cnccncaann    900
cacnncncnn cncncnnnnc ncacacncnn annnnancnn anannnnncn nannncnann    960
ccnccnnnnn cnncnacncn ncncannccc ncnannnccn nnnnncnnnc acctncnnnn   1020
ancncnncnn ncnnncnnnc nnnnnnnncnc acctcnccaa cnnccncccnc ncaacnacnc  1080
cctancnann cnnccccnann ncncccncen cncannenan tccnnntccn cacncntcnc   1140
acccnancca cncntcccnc ncannanaca ccncccccnc cncccncenn ancnncnncc    1200
nanaaccccc naccnaccce tncaccccnc ccccnacncc ctcannccca cancccncen    1260
ccncannccc cnacancccc acnnntccnn ccctccnanc ncencccccn cc            1312
```

<210> 4737
<211> 715
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 4737
gtntttatnc cngnnctctt gttctttttg caggatccct cgnttcgaat tcggcacgag 60
gnactaggct cgcgnnntgt ntnttttntn tntntgatat tacnccatag gtttngggtn 120
acnatnaatg tttgcattnc tnttnaaagc ntagctctta ctaancattc tttaacaaaa 180
gctaatnatc nnnanatnat ttgccatacc gaaactatct ncncaaanaa nactttannc 240
cantatnnna agctnaagan ttaganaaan tacaaaacac tgctatgagt caatngaact 300
gctatcattg aatttgctgc atttanaatg acataaacat actgaacatc aaaacaatgg 360
natggattta ttctatanga ctagccttaa gaatgacata canttngcga nttcctttaa 420
aaatnatntt ttacnacaga ntccatttga acnaagggtc ttttttccc ctcatttnan 480
gggaagacnn tcnatgtttc ccaaacnnat cctccnttca tactananta gcaaactgtg 540
gcctcnatct ccnnttccag atgctactta tanatnactt ttgcataata acttaaatta 600
gaattacttt ncttggnaac agtgtcacgg ccataaaatn antccanttt taaaaaaaca 660
nacttcaagn gcaaattnta gaaaacttcc tttaaagaan taccnaaccc agccc 715

<210> 4738
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 4738
nctaatgctg gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggg 60
ccgctttccc tctggaccac ctcccgctgc gtttcctact cagagaaaca gcaagggcgg 120
ggtcaagaca cgggatgacg ggaagcagga agcggggcag cagcacagcg tggggtcctg 180
gcactgcagg ccaggccagg atgcccaccc cgccctctac acggcccctt ggggcctgcg 240
cccgtgaaac tggtgccagg gagcactgcc agcttgccag tttctgccca gcaaaagcac 300
gtatgcttca ggggccttct gagaccacct tccccactga gccccagctg ctgagaaggc 360
cttgagggaa gtagaggctg ggagcaaatg ccccatgcgg tgagaggatg aggggagcct 420
acgcctcagg catgtggtga gaggatgagg gggagggagc ccacgcctca ggtggagtgg 480
gcagaggtgc aagagaggga tgtactgaag cttcttcccg tcctgccaca gacacttctc 540
ctgccttccc accctgaccc ggcagaaccc accaagtgcc tgtgtgcagc ctcctgtgcc 600
tcacccaggg cctgacccca gagtggtccc aacaacccgg tctcatgccc actccccatc 660
cctgcttncc aaaaattgca ctgtgtgcag tttgcaacaa agaatn 706

<210> 4739
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 4739
nctaatgctg gctacttgtt ctttttgcag gatcccatcg attcgaattc ggcacgaggg 60
ccgctttccc tctggaccac ctcccgctgc gtttcctact cagagaaaca gcaagggcgg 120
ggtcaagaca cgggatgacg ggaagcagga agcggggcag cagcacagcg tggggtcctg 180
gcactgcagg ccaggccagg atgcccaccc cgccctctac acggcccctt ggggcctgcg 240
cccgtgaaac tggtgccagg gagcactgcc agcttgccag tttctgccca gcaaaagcac 300
gtatgcttca ggggccttct gagaccacct tccccactga gccccagctg ctgagaaggc 360
cttgagggaa gtagaggctg ggagcaaatg ccccatgcgg tgagaggatg aggggagcct 420

acgcctcagg catgtggtga gaggatgagg gggagggagc ccacgcctca ggtggagtgg 480
gcagaggtgc aagagaggga tgtactgaag cttcttcccg tcctgccaca gacacttctc 540
ctgccttccc accctgaccc ggcagaaccc accaagtgcc tgtgtgcagc ctcctgtgcc 600
tcacccaggg cctgacccca gagtggtccc aacaacccgg tctcatgccc actccccatc 660
cctgcttncc aaaaattgca ctgtgtgcag tttgcaacaa agaatn 706

<210> 4740
<211> 1446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1446)
<223> n = A,T,C or G

<400> 4740
cgggntttaa aactnctaaa tanntgngct tccantaggn gaaaacgtgc acccttaaan 60
atatttnagn ccnncctnna aaanatcagg gaaattatgg gggtcntttn ggggggnntc 120
tcagctntan tcntananta tntatanann ncnncnnann nntacanaag ctcaatatgn 180
natactncnt nttcacgtna ntatnacnca tantnncnat actacttcat cntcnacaan 240
ntccgcantn ncnanattat tntnttcttc ataatatcca ntatnntctn cattaatcan 300
ttcncatact tttactnatc ncttnctctc ntctatactt ntccatncta ntctactnnc 360
ccttcctnnn aaatntantn ntnantncct caatacannc cnntcatcct tannnnnnnt 420
ccncatanac antnancttt actnccncnc acctttcnnc aataattctt anacntnana 480
cnctnnnnnt natncatana tcacntcntn ancttttnann atcntaccac nnannncttn 540
tactnctnan acnttattnt natcttnctc natatacttc nacanatttc tcnttanttt 600
tatcnanact attcancnta ctnatnatnt tcctattctc actnaanana tntntnncnt 660
caatntcata tnctctctnt tnctcttnnt ctcntactan tntncatcat ncctnatcta 720
acatntctct cntanannca ctcatnnctt tattatnata nactntattn ttnctaatac 780
tntantcnat ctctatctnt ntcactncnn atcttnanct ntatatncta tatcatctac 840
tctcnccant accntcctna acnntatcta ttanncacac atcatctntt ctanactntc 900
tctattntan cntaatcntc ncncatanac tngtttntat cnctnnctnc tcantcnctc 960
nncanactat actntatngc tnntanctac taatactctc tatcctncnc tnnanatnta 1020
acagtcactc tnatatanta tnnttntaca ctcanatcac ctctcnctta nantntcaca 1080
cacatnttat ntataatatn tccatatcac aagcatntac nctntacaca catnntantc 1140
tcatactcan ctctanntca cttcacnnat gactctcagt nctaccanct ncctcaattc 1200
aatcatncgn canctntnta tcacttcnta attatatatn tcttaagtcc nanatgtnac 1260
taantgacta tntnaatctn tcatnntcta acntccatat cacatntcta ctatcaatat 1320
atacttanaa tctcaagtct ctanatcccc tcaacaccta cgntnctact atatatcatn 1380
ttnacntaca nnnntctata tnntcacaac tatatntana nnttanntac nctgntntat 1440
nnanat 1446

<210> 4741
<211> 1446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1446)
<223> n = A,T,C or G

<400> 4741
cgggntttaa aactnctaaa tanntgngct tccantaggn gaaaacgtgc acccttaaan 60
atatttnagn ccnncctnna aaanatcagg gaaattatgg gggtcntttn ggggggnntc 120

tcagctntan tcntananta tntatanann ncnncnnann nntacanaag ctcaatatgn 180
natactncnt nttcacgtna ntatnacnca tantnncnat actacttcat cntcnacaan 240
ntccgcantn ncnanattat tntnttcttc ataatatcca ntatnntctn cattaatcan 300
ttcncatact tttactnatc ncttnctctc ntctatactt ntccatncta ntctactnnc 360
ccttcctnnn aaatntantn ntnantncct caatacannc cnntcatcct tannnnnnnt 420
ccncatanac antnancttt actnccncnc acctttcnnc aataattctt anacntnana 480
cnctnnnnnt natncatana tcacntcntn ancttttnann atcntaccac nnannncttn 540
tactnctnan acnttattnt natcttnctc natatacttc nacanatttc tcnttanttt 600
tatcnanact attcancnta ctnatnatnt tcctattctc actnaanana tntntnncnt 660
caatntcata tnctctctnt tnctcttnnt ctcntactan tntncatcat ncctnatcta 720
acatntctct cntanannca ctcatnnctt tattatnata nactntattn ttnctaatac 780
tntantcnat ctctatctnt ntcactncnn atcttnanct ntatatncta tatcatctac 840
tctcnccant accntcctna acnntatcta ttanncacac atcatctntt ctanactntc 900
tctattntan cntaatcntc ncncatanac tngtttntat cnctnnctnc tcantcnctc 960
nncanactat actntatngc tnntanctac taatactctc tatcctncnc tnnanatnta 1020
acagtcactc tnatatanta tnnttntaca ctcanatcac ctctcnctta nantntcaca 1080
cacatnttat ntataatatn tccatatcac aagcatntac nctntacaca catnntantc 1140
tcatactcan ctctanntca cttcacnnat gactctcagt nctaccanct ncctcaattc 1200
aatcatncgn canctntnta tcacttcnta attatatatn tcttaagtcc nanatgtnac 1260
taantgacta tntnaatctn tcatnntcta acntccatat cacatntcta ctatcaatat 1320
atacttanaa tctcaagtct ctanatcccc tcaacaccta cgntnctact atatatcatn 1380
ttnacntaca nnnntctata tnntcacaac tatatntana nnttanntac nctgntntat 1440
nnanat 1446

<210> 4742
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 4742
tngtaccaat tatctgctgg ctanntagcc taaanagntt ggtcngggcg aattcggcac 60
gagggnaaag cagnaagtaa tgagcttgtc cgtcagctgg tagctttcat tcgtnaaaga 120
gataaaagag tgcaggcgca tcgaaaactt gtggaagaac agaatgcaga gaaggcgagg 180
aaagccgaan agatgaggcg gcagcagaag ctaaagcagg ccaaactggt ggagcagtac 240
agagaacaga gctggatgac tatggccaat ttggagaaag agctccagga gatggaggca 300
cggtacgaga aggagtttgg agatggatcg gatgaaaatg aaatggaaga acatgaactc 360
aaagatgagg aggatggtaa agacagtgat gaggccnagg acgctgagct ctatgatgac 420
ctttactgtc cancatgtga caaatcnttc aagacanaaa atggccatga agaatcacga 480
gaagtcnaan aagcatcggg aaatggtggc cttgctaaaa caacagctng angangaacg 540
aagaaaattt ttcaagacct caaattgatt gaaaatccat tagatgacaa ttcttgagga 600
agaaatgnga aagatgcacc aaaaacaana agctttctac acantnaaat ccnannaact 660
ccatccntct anaactatnn gtgagtcctt nttacntcna tccagacatg antancnata 720
cnattgatgg aacc 734

<210> 4743
<211> 1226
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(1226)
<223> n = A,T,C or G

<400> 4743
nnggggttna cncttctaaa atnttnnnct tncnntgngn caaanggggg cccctctnan 60
natnttcaga nccncctnaa aaanatccag ggaanatttt ggggggtctt tttgggggnc 120
tcctttatna ncnatccann natatncatn nttcnctcta natgctnann ncanatatat 180
tcaagatctt cnnctcncnt canctnntct catanntact taactnataa tatcatatta 240
cactcntagt cttnctacca canccttnnc tcatttaatn acncctaant cactctattn 300
tnccntcatn tanattnnat catcatncac tcttntttnt nttatctcta nctanancat 360
cntatatttc tactcaanaa ttatcnnncn nntantcana tcaccnctca taatnttntn 420
nnnnnnttnc cctaanacct ntactantnc antctnantn cnnctnnncn nnttccntnc 480
tcntnnttnt nntantcant ntcnncnncn tcnnnttnct ntnntanatc anccatnntc 540
ttgcnnattt cnaccnantn catatcccan cctntanatn tacatcncnt nttctactnn 600
nctncnntnt ncctnnantn cttancatat atttantnct ntnncanatn atattannnt 660
tcctnttnat atntcttact attcnctntc cnatattcan ttctatnacn tcanntactc 720
anntnnctta tgntttatcc tcttatctct atctntcnca naantctcta cactnncnnn 780
nttatctatc ntctancact cttactctat atcnttntat ttatcactca ttccacnctn 840
tcctcttntc tcanatctat ncactatcta cctatatata tcntattntn cttataccnc 900
ctatattctn taatcattca tanntaccaa cntacatcat tcncaccttn tatacctcat 960
natctatnct attctactct acatacanct catagtcant antctatctc anctcctcan 1020
catctcactc nnnatctaac ntncantnta tctatctctc cnatctatat tctacnctat 1080
acnacactac nctctcttna tnnnctctnt atntcnntct tantattntc tctanntccn 1140
tatntatnct catcnnacan atatccatnn ttgcncnacn cnannatctn cnctctctct 1200
nttatctana ctgntctntc tacanc 1226

<210> 4744
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4744
gnnnnngagn gggggnnttt nnnnnnaccg aagaacncnt ggaaaccccn ttgaattcaa 60
aaccatgnnc acaagctact tgttcntnga gcaggaaccc atcgactcgn aanttnnccg 120
aggggaggag gaccacnggc gcccggncag ccacaccnng aaatgggggа gcancgcncn 180
gggnaggggg gcccanccga aaatgnggca gnccgnaagg anaaanacgc aaggannсag 240
agcaggccca acngnggnga aagggaanag cannagccgc annggnggcc gnaacgccnc 300
gcacaaaaac atgcggagca agagcnccca tggagaacng anggggcccc gcaaagnagc 360
gctagnncaa gnnagnacgn anaacncnca ngngaangtg gcngcangag nacnacagaa 420
ancgactggg nacccaaggc cagccngaca acnccancna aanaccganc tgnnangcng 480
cagagnanga actgggatga aacaaannag gaagggcggt ggcgaagagg ncaactaggc 540
agcgaacaaa accnccacca agnggancaa ggangccang gngagacgcc agacgcntnt 600
gcccagatca ggaaacgaaa gggacnnang ncgacatcna nancccnaga agngaacagg 660
agnnnacgca agcccccncga cnanagaagn gagatgggct gaacagnnna nnatgtnatg 720
ngcagnnnaa nagagngctc aacgnaa 747

<210> 4745
<211> 1064
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1064)
<223> n = A,T,C or G

<400> 4745
cnttactaan ngnntgctat cgntctttcc gnangagccn agcgattcga gtggctgagt 60
ggaggcgccc agacctgggc aggcagcagg ctcaggccca caccttgng attttgaaa 120
ccaaagccca gannatgatg tttacttntc tctccctggc tctgcccttc ttactgcaaa 180
ccatgctgtg ccttagggcc cttctcatag ntgttcctna tggccatgac tggaacaggg 240
atgcaacctn tttntacaca agcacagant agnttgngtg aagnntnttt ntnactccgt 300
ttacaccngt nnttcnnttc tanntgccna nancttcatc caatcngntc annnnnntnn 360
ctcactcnna cccanccatc cnannnntcn nnnnnaacnn nanttcnctn ctntacntnc 420
cctaacncat caatnnnttt nntnnnnatt annntctctn antatattna ctcnatatcc 480
tcncactntt tcatactcnc nattactctt nncncntacn ctcatcacat acncnttaat 540
nnnnccnntn ctntatacna ncatnttctt nncantctac ancgactatn atagtcntct 600
atcnncntnn aagnctntnt naatnntntc tctganacnc ctcttacgtg ntcttactnt 660
acntcaatnt ngctcatcat cactctcnaa cggtatactt catttnngtg tatatatccc 720
ncatctnctn tcancactcn tctctctact ntatntcnca cttncgncac ncacgatata 780
nnatctncta cactcanaat cacnnnttat natcntttta tanctcnnan tntaacngtc 840
nttntctnna tcntnctntt tcganatctc nncacntntc tntntatnct tnttcttcnt 900
ctntaatatc nantcatctt agtctcnnna nccaanatnt nancntncac tctntctacn 960
ttntctnctn nnnacacttc tactatctcn aatatatatc ttnntancat annacnncac 1020
ctanatnant cctctaannt aacttcatct nctntntact annt 1064

<210> 4746
<211> 1471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1471)
<223> n = A,T,C or G

<400> 4746
ccccnngcac acaangncnc anannnncan cganngagcg ntgcagagac agcgcgnnna 60
cncnnnnnca cagccannca nnngnnanca cgacgnnngg gcnggagnac gnaganncnc 120
nnacacnnng nnngnanaan nacngnanac acnnnnggna cgcngncnnc gagnacnnng 180
accncagcga nagnnncata nnnnggggggg cnnnnagagg gagatccgcg cacagnattg 240
ggcantcctt ttttgggnna aaacccggnt tgggagaaaa aacccccatn acgacagnga 300
gacagaggag aganngcgcn cnnngnaccc agncacgtnc gcgacgtccg ancagccccg 360
acgcnggagc gaggagcnta gnaacnnncc nccacnncnc acgcnnnaan acnnnnnang 420
ggggngacga tataagcacc gancngcnca nnatctcnna ntcannannn ncacacncca 480
gcaanngccc nncngcgnca nnnaannnca gnaacnnagg cncnnanann nncnanccnn 540
cnannnnngn ggacnnnnnn nnngnnnnnn gcgcananen cccgngnnng nnngngacca 600
nncccgccnc ncnnnnnnaa annnanannc taacaaactn nnnnnannnn ncncngncng 660
cnnaagnacn ncaggannnn canncancan nccncnannc accnngncnc cnnaanngaa 720
gnantcnnnc gncanctnac ngcancnnac gnccangcnc nacannancg cnananentg 780
ncgagacata nncgacgaga nncantngcn nntnnncnta ntntacannn cgcccganag 840
cntcngacag ncgntncgtc gacagcntnn cgcacacnnt ggntgantcc ngagncatat 900
agaatcagcg nnnangcaga cacnacanag agnangncan ctcnacgacg anacaacatc 960
gcgnngantc annnnggnga cgantccnaa nnancagnng nncntacgca ganccccacc 1020
ncgaaannna tncanctann cagctngcna nggacanaca cgcgngnngg cacaagacga 1080
gccagacngc annacgcgng ngccncactn gnctcacgcc acagaacann ntacacnagc 1140
gccngcnaga gcncacacag nggtnagana nggncncgcn cntnnatgcc atgngaacca 1200

cgnagacgca ccgagacatn nnacaangcg ctcgcgcaga gncnanncnc nagacggccg 1260
tatnagnagn gagncacanc nanngnnnga gcagcnnnan cgcanagnga gagagcacnc 1320
agngganaca cgccgtagac cnnnntcngg ncgcncccgc ncnggnagca nntnnnnccn 1380
ntntagacan ncagcgntgn nngacatann gnaccatcat gtacncagcc agcnnantag 1440
agntncncan acggcagcna gcagcacnnn c 1471

<210> 4747
<211> 915
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(915)
<223> n = A,T,C or G

<400> 4747
cgaccagaac ngcctngaaa tcccacaaac gaggagcaan cgacgcgaag acggcacgag 60
agcgcgaggc aacgnccccg ccattnntnn ccacgctggg aagaccaaca cccnccggag 120
cgcgnancag caccccccacg gcggangcaa ncgangaccn ncggacagca cncacgggnc 180
gganccaggn acgcncgccn cnngngcncg gaaccnggac cagccaanag cgcngctgng 240
ccngacngag nncnccnaag gncganaanc ccgagcncgc agaagaancc ccggggaacg 300
agcngacggg anccgcaaaa aggcaccnaa gacacaaggc gcaccacgag gcncggaccg 360
ngncccngca ngcccganag ccaacacagg ncannggnag ngacgnacag aaccggaaan 420
caacngccac acaaaggngc caaccgnacg cnacnggggg gccccnacaa gggnaaagac 480
ccaggaancc aagnggcccn ggncnanccc cnggaaanng accnggcaan nngggcnnga 540
agaaaaaacc aaaggccnag cgaancngaa acccangcag ccagagcacg nanaggnaag 600
cggcaaanaa ccgganaggc cccaggangg accgaaagna ccgngggngc cccaangccc 660
aggcccaaaa cgcncagaaa aaggnnanna accaaaggcc cagngngccc cgaancaccn 720
nnncagcacc nagganaacn aganagaacc gcgaccaacc cnanaanncc ggncaaanna 780
canaanccat ccncaggggn gaaggancac nngccnnncc ncnanncaaa nccaaagccn 840
ncacaaangg ccacaggncc anagcanncg nacnaccgcc anacaangcc cagaanannc 900
ggggganngg ngccg 915

<210> 4748
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4748
gtttnannan cagctcttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
agaaggacgt gccgtgccgc tgggttctga gccggagtgg tcggtgggtg ggatggaggc 120
gaccttggag cagcacttgg aagacacaat gaagaatccc tccattgttg gagtcctgtg 180
cacagattca caaggactta atctgggttg ccgcgggacc ctgtcagatg agcatgctgg 240
agtgatatct gttctagccc agcaagcagc taagctaacc tctgacccca ctgatattcc 300
tgtggtgtgt ctagaatnag atnatgggaa cattatgatc cagaaacacg atggcatnac 360
ggtggcagtg cacaaaatgg cctcttgatg ctcatatctg gtcttnanca acctgtnntn 420
tgaantcgng nacccncnat gtgnaaatcc cctntntaac ttctcaagnn tcncnngttt 480
nggncnttct tttaaggtgc cctttggggc cttttctggg gnaantttta anaangcana 540
nnngcgnttt ttaanagggc tnttttnggc ccccccctnnt tttnnaaaaa attttttnnt 600
taaaaaaggg gggattccnt tnttttnnaa aaaanccaag ggnnncnncc gggggccaac 660

ntnnnggnat taanaaaaat tttnggnngg tnatancaaa taaaantntt nttttgggan 720
ggaaaatttg naaaaaannn nnnnnntnnn nnnnnntnnn nnnnnnnntn nnnnnnnnnt 780
nnnannent 789

<210> 4749
<211> 10
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(10)
<223> n = A,T,C or G

<400> 4749
nnnnnnnnnn 10

<210> 4750
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4750
gagaggnnnn ttttnaanat cagctacttg ttctttttgc nggatccctc gatttnaatt 60
cggcacgagg tcacacgggg ccacatctgc tggtgcccgt cgtgctcctc tgcagcaagc 120
ccagcctggc cattgctgga ggtcctggag cccacagtgc cttggcctta aagagctcac 180
ttgagaaacg gcttgttccg gtggggtggg gggtggattg aagactctga gacgagcagg 240
gaactcagaa cactgagtcc ctatttgatg ttaaaatatg accgttaaac ttctgggtaa 300
gataatgaat ggcactatgg tttatactgt ttctgttnta tgggctcttn cagagacgtg 360
aactggaaaa ggctctgcan tgtctgggat tcgctcaatg ctgcagggga gggcaggtgt 420
gaggggaatg gccctggagg gtgatggggc tggggcatcc gatgcagctt tatagttctg 480
taattaccac ttttaaactt tttattacga aaaatgtcaa ggaccctgga attaccgtga 540
ggtaggcagg ataatgggcc cccaagatgc ccgtgttgtg acccccaaga cctttgtgag 600
tgcctcacat ngggaaattg gcctangtca tcttgcangc ccanggcaag ccccattggc 660
ccttaaagct tganancctt tcctgctgga ntttganaga tgccngaanc annanaagnt 720
anaaacccct nggaagggcc ntacttcct 749

<210> 4751
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

<400> 4751
gntctcatnn tgnnaggctc ttgttctttt tgcaggatcc catcgattcg aattcggcac 60
gaggtgcgac gaaggagtag gtggtgggat ctcaccgtgg gtccgattag ccttttctct 120
gccttgcttg cttgagcttc agcggaattc gaaatggctg gcggtaaggc tggaaaggac 180

tccggaaagg ccaagacaaa ggcggtttcc cgctcgcaga gagccggctt gcagttccca 240
gtgggccgta ttcatcgaca cctaaaatct aggacgacca gtcatggacg tgtgggcgcg 300
actgccgctg tgtacagcgc agccatcctg gagtacctca ccgcanaggt acttgaactg 360
gcaggaaatg catcaaaaga cttaaaggta aagcgtatta cccctcgtca cttgcaactt 420
gctattcgtg gagatgaaga attggattct ctcatcaagg ctacaattgc tggtggtggn 480
gtcattccac acatccacaa atctctgatt gggaagaaag gacaacagaa gactgtctaa 540
aggatgcctg gattccttgt tatctcanga ctctaaatac tctaacagct gccagtgttg 600
gtgattccag tggactgtat ctctgtgaaa aacacaattt tgccttttt gtaattctat 660
ttgacaagtt tggaagttaa ttagctttcc accaaccaaa tttctgct 708

<210> 4752
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 4752
ggnntttnan tctacanncn actggctact tgttcttttt gcaggatccc atcgattcga 60
attcggcacg agcttntntg gnctnnccgn ctattntgnn atcagagnng ctgggacagt 120
tgntgctnnc ctnnntnacg nnagngnttn nangnatgat ntctatgtgn annacatcnn 180
gaannagnct angaanaatg ttgacnccan tgtttnttnn atgannactc gaanatncat 240
atatggnant aaangcaaan ctntannctt gnganngnng nctagtatna ctcacgcgcc 300
cngcnaagac cctgctcntc gcagnannat acagtatgct attctggact tacngagtcn 360
gttcnagcat aatggattcc nttgcctcgc tacntgnnnc aganaatctc anntnctgtt 420
naccaacctn ncnangnnat nnccctantt acgcctcgan agnatgtgat atnntaannt 480
gaatnatana tctgatgnac tactgacagc ttctngatgc ctgctcagga taatgcctgg 540
ngcatntgac atcaatanca acctngntnt naggctctan tccttgaang actntgntaa 600
tgcntacaat gnttataann ttgnccatcc acaatntgaa aatcaggagc ttgacngcgn 660
tatnggncaa caactnctac ngaacntagt gaacattgga tgaatatnnt aaagcctggt 720
angcnnatat tnggatn 737

<210> 4753
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4753
tgtacnaann antgnggtng ctcgtncttt ctcnnaanan nnnngcttgg cgaattcggc 60
acgagggaaa gagggaagaa agagaagctg gttatttcta gaggatgtcg taatctacat 120
cacaggcaga actgatggct cagtggctga gtggccagta tattgtcttt ttttttttga 180
gacaaggtct cgttttgtca cccgggctgg agtgcagtgg cgccatcttg gcacaacctc 240
cacctcctgt gttcaggaga attgcttcaa tctggaaggc agaggttgca gtgagattgc 300
accattgcat tccagcctgg gcaacaagag ggaaactccg tctcaaaaaa aaaaaataaa 360
agtgcctttt aggccggaaa aaaaaaaaaa aaaaaaaaaa aaaactcgag cctntanaac 420
tatagtgagt cgtattacgt agatccagac atgataagat ncattgatga gtttggacaa 480
accacaanta gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga tgctattgct 540
ttatttgtaa ccattataag ctgcaataaa caagttaaca acaacaattg cnttcatttt 600

atgtttcagg ttcaggggga ggtgtgggag ggtttttaat ttcccggccc gcgccaatgc 660
cttgggcccc ggtacccanc ttttgntncc ctttagtnga ggggttaaat tgcccccttt 720
ggcgtnaatc atgggccata acctggttnc cngtggngaa attgnttatt ccgnnttcnn 780
aatttcccca nanct 795

<210> 4754
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 4754
gagagggnnn tttcnaatgc cagctacttg ttctttttgc nggatccctc gatntnaatt 60
cggcncgagg cncncnctgc gctccgtgnc tcaacanggc atgccnntnt ctncgtacac 120
tatnnagnga gattnntagg gactatggtn nagnanntcn gtacntgnna aaggggganc 180
tattgcatct anaaacttaa tnatntaaaa ttgactnatt tagactagac tcaagaatgt 240
atatgctntt ggtaattagg aactctngag aatanaggct gctgattgtt gccatancat 300
gtnctacaaa atngnatctc tatgggatgt actggcaant gtgtcataaa atgctnctgg 360
gttnattcat ncattccata agaaacttaa taccancnaa tgcattaaan ccnnngcnag 420
ttnccatnaa ctgtanctat gnaacntttg tttaaggatc nntctgatgg tcntntanga 480
gcnatcttag ntctnagtca ttggnccnat ccntntnctg tgagtaccag nacataccga 540
acttgnntnc cctgcttcca ctaantccag ntgtgaccaa aatctaacgt gacatcatac 600
ganangttat agacanaaga ctantgagat ctaananntc ctgcnttnnn gnnaacccnn 660
ctacaaaana ntannatngn gggaanaatn ntnttnccct ttggaccatt tgnccntcaa 720
atatnngccn ccngaatgaa nntnaacccn n 751

<210> 4755
<211> 963
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(963)
<223> n = A,T,C or G

<400> 4755
cnaannagtg anngngtcgc cttgccnaac nannnaggcg ggggcgtctt ggttntctag 60
cctttagaaa aaaaaaatct agtcttggta aagaaaatgt tcattttaat caagctccag 120
tacagcttgt gtcaagacct agtaagacca cctttaatgt gttcctggat atgacattaa 180
aaactaactt gaaaattgtt aggatatttc cttgttccct acttttattg taaaatctac 240
tacatnctta agaattaaaa aacgccattt cagaagagat gatagtttta tcttgccaag 300
gaattatctt cttagtagcc tatattggct tattccaaaa aaggcgttaa cctccatcaa 360
aacatctnct gcgcctctct ctcagcatat gctntgatnt ttgaagngtg naatagattg 420
gagctatcag tcacttattt cnaaaaaant gtnttctntn ttcttcatan cctgtgaann 480
agggataccc naggnaaagt tcctttctgc tgtcctccct cctttggtaa tgcttatcct 540
tatggaacca ctnaacctgc acaaaaccct tcnccttaaa aanccangnn aanntggcca 600
anttcttnaa ttangccanc ttattttatc cccncnggnt cattaaaccn aatntcttag 660
gcctggctnt ggggccttcg gggggggcctt ttnggccttg cnnntngcnn tnttaaaant 720
ncaggccttn cnanaananc anctctntnc ntctaccgan naanaaccct ctcnanangg 780
nccctcttct tcananaacn cttcttnagc tcggagaggg ncccgaccaa tttnaaccgc 840
ttctntntnt cccccncggt gtcacctttg gcttttcncn nncantcncn catctttntg 900

cnnantnacn nnnnattnnt gngngcanac acaacaancn cccaactcca cnctcntgtn 960
nan 963

<210> 4756
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 4756
gttttaatnn ntcagctctt gttctttttg caggatccca tcgattcgca agattgggct 60
atggaattgg aaggcctgtt ttggagtact ctaaattaaa aaaaagttat atttgtaaaa 120
taaccaccac aagattgcct gattcacagt tcttctgagt attggcgtag gtaattattt 180
aagatgtttg ataaattgta aaatgctttt tacatttttt aaggaatcaa ttgaactact 240
ggaaaccagt atgtagtatt cttggcaggt ctaggtttca taatcctaat ttctttgcag 300
cccactattc agaaatgtag tgattaacag agtcaagaat gtttcaggat atttttggct 360
acaagtaaca atacctaact aaaagtgact taaataataa gcagtttgtt atttcacaga 420
atgagaagct cagagccaga gagttacagg gttggttcag cagttcagtt tcatcaagaa 480
cataagactt gcttacttta aagctcctct gcatgtcagc agagggctgc cccaatttta 540
gataccaaca tctggccaaa gaagagcagg gaatgcttct ttaagtactt attanggagc 600
aaaacttcct taaaagtctc ataggaggtt tttccttagn ctcattggat ctcaatggct 660
cttgcatact agaaaaaggc cacattcctt actctggcat ttaagtt 707

<210> 4757
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 4757
gttttaatnn ntcagctctt gttctttttg caggatccca tcgattcgca agattgggct 60
atggaattgg aaggcctgtt ttggagtact ctaaattaaa aaaaagttat atttgtaaaa 120
taaccaccac aagattgcct gattcacagt tcttctgagt attggcgtag gtaattattt 180
aagatgtttg ataaattgta aaatgctttt tacatttttt aaggaatcaa ttgaactact 240
ggaaaccagt atgtagtatt cttggcaggt ctaggtttca taatcctaat ttctttgcag 300
cccactattc agaaatgtag tgattaacag agtcaagaat gtttcaggat atttttggct 360
acaagtaaca atacctaact aaaagtgact taaataataa gcagtttgtt atttcacaga 420
atgagaagct cagagccaga gagttacagg gttggttcag cagttcagtt tcatcaagaa 480
cataagactt gcttacttta aagctcctct gcatgtcagc agagggctgc cccaatttta 540
gataccaaca tctggccaaa gaagagcagg gaatgcttct ttaagtactt attanggagc 600
aaaacttcct taaaagtctc ataggaggtt tttccttagn ctcattggat ctcaatggct 660
cttgcatact agaaaaaggc cacattcctt actctggcat ttaagtt 707

<210> 4758
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 4758
atgcggnccn aatnntnggc tactcgntct ttccgcaaga ncccngcgan tcgaattcgg 60
cacgagattt gggagtnnta atatngacat tnctgngatg ctnatatatg taatgtctta 120
attgagattn ctgtnanggc anaaataatt aggctagggc tcttagtttt cattcctatt 180
gcccaagtnt tgtcaaacta tggtataatt ttaatgttac tttaaaaatc catantctgc 240
tagttttgca tgtncttata tgaaaacagt gcagtaagtt gaaaactcag tgtctatgga 300
attgataaat gtcgatctgg tgtagtatat tttatcgcat ttncttatat taaaaaatgt 360
ctgcatgatt ncattttatt tcctttgtaa tttacatttc agaatagtgt attgctatat 420
gggtgccaag attgaatatg aagaacccna gtgtttgtag tattatagtt ttaagcaaat 480
ctgtgtggng atacagccat nagantgggg cttatataaa ctctgaacat gtaagatttt 540
gtacagagaa tcnttaactn tataaattgt atatgancat gtaaatcttt taaaatgtac 600
atnanatact gtatttcatt accttgtgtg tnatagtcta gtcattgcct gtnaatataa 660
tttattacgt nntctgnagc ataaacccat acatngatga cttannt 707

<210> 4759
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 4759
annncnntnn annantncnt nntnnnnatc nnnntctnnn tncntntnna tttaannntt 60
tatannnnnn tntnannnnn antnntaatn atgttnntct aatgnnggct nctactcttg 120
ntgnttgtgc agtacccnng gattcnaata cggcacgagg caagttccag tgaaccacaa 180
gtatggcaaa ncttatccaa ttttatgctn ggggcagtca gnacatacca gtttctgatg 240
tttcaggcat gagtggggta aataagtgtg accacttaaa gctgntcgtt agcatggaag 300
acttctccat tctatctttg naaaacagac aanatatgca cttgacatat tagcaaatng 360
gtnctgaatt atncaactgt ttgctattta ntaaactagc aaatgatgca tgtattntgt 420
ttttcatgtn ctgggcaata tgagtaaaat ctgtcccttt ttccccctnt gaatgaggtc 480
tnncatgntt gangnaaagt nttgcactat ngcatatant nnggggacac agattttcat 540
aatntccatt ttttgggggc ttaaggattt nttttttttcn ntgtgaaaca gtnataannc 600
ttanncnata tnatancttn aaatatntac caggaaaant ccttttgga nttttcaaag 660
ccttnnatta antctanttt ttaaagaaan cncntatgtt atatttntna aaaggttntt 720
ttnccccccaa nccttanttt tacctgnnaa nncttgnttn cccntttaat antatnttta 780
ccaaatntcc cnatttccng ganaatntnn cccttcccnt nccttgaaaa acattgtttt 840
nc 842

<210> 4760
<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(843)
<223> n = A,T,C or G

<400> 4760
tganctcatn tctcaagnag nctanatngc cctaacnaga atngngctng gggnaattcg 60
gcacgagcta gcagtaggna acaaagtata anaatgacag cagatgtgtg gncanaaatt 120
attcanggcn naagacantn gaactgaaaa nnaaagtagg tcaatctaga attctatacc 180
caacacaaat atccttcaaa aatgaaggtg aaataaacac tttttgatgg acaaactgaa 240
gttgagagaa ttcgtnacca gcagacctgt agtacaaaaa atgttgaggc aagtttttta 300
ggcnnaanaa aaatgatact anatagaaat ttgggctnca caaaggantg aagaggcttn 360
caaatggtnn nattatntgg aancatatga aagtnatctt ttctcattnt caatcccttt 420
tgagaaactg cttaaagcaa naatatnnac naggtactat gnagncttaa naacatacat 480
anaancaaaa tgtatgacaa aaactactaa agttnnccan gantnntggt gtgtgcctgn 540
ngcnccngcn tgtcttgtnn ggctnanatg gggacgatnc attctnaccc gagcccnnat 600
angtcctaac ctnntntgan ctgttgantg gtntcactca cnccctcctg ggctacacan 660
ntngaccctn tcctgnaanc caaancccct ctcaaccttc cnccnttctt cnnanctntt 720
anctgnannn tccnttatnc nccccctnant ccccccacct tcctccgnat cncctctcct 780
gcancttttn gctccncanc ctcccaacnn tnngnnaatt tcctcactgn canacacann 840
nct 843

<210> 4761
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 4761
gntnttnnnt tntatannna cangctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggcttctgtg tcaaaaaaca acaaaaaatg gatattagga acgttttgtt 120
gtttaaaaaa attactttgt ttttacactt tggtagaaaa aacttaagga atatttcaaa 180
cataatacaa agtgagcaga atagaatagt gagcttttat gtaaccattc ttttttttt 240
ttttctgtaa aaagagacaa ggtcttgctc tgtcacccag gctggagtga agtggtgcta 300
tcataacttg ctgctgcctc agactcctgg gcggaagtga tcctcctgcc ttagcctgcc 360
gagtagttag gactacaggt gcacaccacc acacctggct aatttttaaa tttttaattt 420
tttttgtgga gacgggatct tactgtgttg cccaggctgg tcatgaactt ttggcctcaa 480
gcagtcctcc tgctgtggcc tcctaaagtg ttgggattga gccactgtgc ccagcccatt 540
gnttttatta ttttttaaag gtttatttt aggtgaagtt tacatatatt gaaatgcaca 600
aatcttaact gtncagntgn taataagttt tattgagata taatntatat actattagtt 660
atatggtnca taattcacat gccttctttg aaagngtcca nnttcaantg aatttttt 718

<210> 4762
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 4762
gntnttnnnt tntatannna cangctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggcttctgtg tcaaaaaaca acaaaaaatg gatattagga acgttttgtt 120
gtttaaaaaa attactttgt ttttacactt tggtagaaaa aacttaagga atatttcaaa 180
cataatacaa agtgagcaga atagaatagt gagcttttat gtaaccattc ttttttttt 240

ttttctgtaa aaagagacaa ggtcttgctc tgtcacccag gctggagtga agtggtgcta 300
tcataacttg ctgctgcctc agactcctgg gcggaagtga tcctcctgcc ttagcctgcc 360
gagtagttag gactacaggt gcacaccacc acacctggct aatttttaaa tttttaattt 420
tttttgtgga gacgggatct tactgtgttg cccaggctgg tcatgaactt ttggcctcaa 480
gcagtcctcc tgctgtggcc tcctaaagtg ttgggattga gccactgtgc ccagcccatt 540
gnttttatta ttttttaaag gtttatttt aggtgaagtt tacatatatt gaaatgcaca 600
aatcttaact gtncagntgn taataagttt tattgagata taatntatat actattagtt 660
atatggtnca taattcacat gccttctttg aaagngtcca nnttcaantg aatttttt 718

<210> 4763
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4763
gttannncctt tcnaatgctn ggctacttgt tctttttgca ggnncccatc gattcgaatt 60
cggcacgagc tganttgccn ganannntaat gngnngngnc aagagactct nccantntgt 120
aantggctan ttagnntgnc tagctgagcn taatnaaagn nagnaaactt ttataactna 180
ttaatattct gagnnnncan gngcgccant acnntatncc ntnancttgn atctatgacc 240
atatnaatat anngcataat nccgcttcta tcatgagtan ctactagagg natgcatngc 300
gtgtaatngt gangtaatnc annttacnga aanttangtc ttgcangnat anggntnnnn 360
nactaatatt ttannatata gatatgacat ntgtggaang agcactagag cntgcatctt 420
tnatatgntn nttgnctana tgancagcan ngtatgnngn tcaaanttat nanaactcat 480
ncnagtgtct gntcattcga accctacctg atantantct aacttgggaa aaaaaaantg 540
gtctgaatgn tncannttt aagtgnctat cnccagagtt ggaaataatg ccaanangcn 600
tnggtnatta gnttcncaca tgtanngtta ggttttttgg actnntgcna ngcttactan 660
ttgggggggaa gaagaattca gaagccntgg aaaggtnggt cngaanttaa ngaaatngta 720
aaanaaagct tggnaaantt ttacccttgg caaggatngn ntngccnn 768

<210> 4764
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

<400> 4764
gttannncctt tcnaatgctn ggctacttgt tctttttgca ggnncccatc gattcgaatt 60
cggcacgagc tganttgccn ganannntaat gngnngngnc aagagactct nccantntgt 120
aantggctan ttagnntgnc tagctgagcn taatnaaagn nagnaaactt ttataactna 180
ttaatattct gagnnnncan gngcgccant acnntatncc ntnancttgn atctatgacc 240
atatnaatat anngcataat nccgcttcta tcatgagtan ctactagagg natgcatngc 300
gtgtaatngt gangtaatnc annttacnga aanttangtc ttgcangnat anggntnnnn 360
nactaatatt ttannatata gatatgacat ntgtggaang agcactagag cntgcatctt 420
tnatatgntn nttgnctana tgancagcan ngtatgnngn tcaaanttat nanaactcat 480
ncnagtgtct gntcattcga accctacctg atantantct aacttgggaa aaaaaaantg 540
gtctgaatgn tncannttt aagtgnctat cnccagagtt ggaaataatg ccaanangcn 600
tnggtnatta gnttcncaca tgtanngtta ggttttttgg actnntgcna ngcttactan 660

ttgggggaa gaagaattca gaagccntgg aaaggtnggt cngaanttaa ngaaatngta 720
aaanaaagct tggnaaantt ttacccttgg caaggatngn ntngccnn 768

<210> 4765
<211> 1475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1475)
<223> n = A,T,C or G

<400> 4765
actaactatc ncacacnncn acgccnaaaa tngccnaacn cnnnnnaaag ctnngggncn 60
anacctncac cacncancac ccaaaanaac aancnaaaca acaacagncc cctcncacct 120
nnannccnnc ccncataant acancctccc natagctntc acccacacan cacacnccnt 180
caacccccan cancctcccn acncccccacc caacccaaan acntnacnta annccacccc 240
cacnaaanac ccnnncaaca cnncacnaca cncncanncc tcacnccaac ccncccaccc 300
nccncaaccn ancnccctan canacccacc cncacccccc ccccaaacnc aanccnncan 360
cnncnacnan anctcaaccc nnaccacccc cccncaccaa caccctccan accccanacc 420
cctnanaccc ccncaaccnn ccacacncat cacnnncaca acatntacnn cntcacncan 480
caanacnaac acccaccnca cacnnacacn cacatcannn natgnnctca cacccactca 540
ntntaccaan ctaacaacca cacccatacg ntatcncaca canncccaca acnncacatc 600
acacccancc ntcnnnaacc cacnacaccn acacactcca tacanccanc ncacancaca 660
ccaannncca ncaaaaaccn acacaacaca nannccacaa cactctctnt ancnnacact 720
ctaatatcnc ntaaacatna cnctnanacc cacactaccn caaccatnat nccatacacn 780
cacacanaca catcacaacn cnctncctnt cantctncac ctacacacna tnncacanaa 840
cnncaccacc ctnntaacna acacannntn cacnacncac accaccacat acacccaaca 900
nctccctcnc tcncnncaca ccacaccacc aaaatcaccc nnnacaactn tncncntnaa 960
tnctnatatc nctccaccac naatnntanc cnacacncnc annctctcac aacactctcn 1020
cacanatant ctntccntct ngantcacac ancannacaa ctnncccaca tctcacannn 1080
cnntanntna cctntcnanc caccacacat cacacacctc acannnccta cntcacnacc 1140
anccacacca cnanacccca atncnctctc canacacaac acnanacnnn cctcannnca 1200
tcnacncaca tncatcacca ccnaccacnn aacacctnct cactacaaca cncancnatc 1260
acccnacncc atcacacacc acncacanca caccctcacc acccaanntc acacactnct 1320
ctccccnctc tctccacccn ncnncaatcn nncaacaccn ncccacccac accctctacn 1380
ncncntacnn tatctatcac caccanacnc acacatattc atnnncacac ntcacctntt 1440
annaacttca cacaactatc natncncnnn tncct 1475

<210> 4766
<211> 798
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(798)
<223> n = A,T,C or G

<400> 4766
ggtnnatanc agctcttgtc ntgngccnga tnccngtgaa natantctct ctagctcact 60
tgtntaaant gganagtctn tnatnatcgg tatgaacccn tnaaggagcc atgtntaccg 120
gnctagctat actngnccnn gggaagnccc tgcctgtgtg nantnccntn ctgggatnct 180
tnaanagnaa acnnnacgct ctcncanatt cntnagatgc ncagntagct tatnagncat 240
gggattgcca nntgnnccat ctnctgtctn anggnctncc anngcacnng tttnncngac 300

naacnggncc nctgtgtaaa tagnaggcng agaaatgata cnntgctgtg gaannaccaa 360
ccnactatgg accngaaact tgctggcnaa atnaattatc tncnacaaac ngnaangtgg 420
ctcngagatt gatngttggc tataatatng aagcccctgc cctgtgacnn tgatnctagt 480
gattattgca tgnctcctca tctgtatant gaaannncatc tnattaggna nagngtttng 540
anacntttng aaaggncnta ctggnaattt acnttanaat tntttnccat tgtccgacca 600
caaanttnca agnttttccn gncacatttn nnnacttaan ggcccnggna cctggaagng 660
ctttgaaaag gcgcctttna aaanngngat ttagccngnt tnatttancc cnttttanaa 720
acnggnnntc aggnccncca attncnngaa anntaacctt tagnccttct tnaaaacttt 780
ttggggnggt cngnnatc 798

<210> 4767
<211> 1861
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1861)
<223> n = A,T,C or G

<400> 4767
nacngngtnn gtgaggccta aatagctnnn ctntngtgta ttnnggngna ggtgcntnna 60
tncngccnna gnntannnnn nggntnggag nttngggngn nnnctancnc tatanccnnn 120
nacnnagggg ggggncnttn tnnttccttt tnctnctcnn ngtgntnttc tntgnccntt 180
tncncnntnn cantctnnnc ctcacgtnnt tnngttcnnc ccnnantncn nntncgnnca 240
tcctttnntt ccnnncccttn cttcntntnc aancactntn natatgccnt atatactcnn 300
ncncgncnac nctatnnnta tcncctnnnn tctncnctac nnnctcagta nttnnctctn 360
nnngncntnc tanctnctgn gtctcncatc atatatncgc acgtnnncat tannectcca 420
gtcctnncnt ctnactctna nnnangtctn tccgtctntt cnanannctc tntntnctat 480
ctnnattang tnacgnctct gnncncnttc acangagnnt atgncncntt tgtncatctc 540
nntactcngc nncacgactt cnnatntctc nattnacang ntcactgcta actcanctnn 600
atntctctct ncnnnagcga acgatnntcg cannanacag cctntctgcn nananacntc 660
gcncntcgtn tagngcgatc tnncagttna ttcttnatcc tcgtnttgta ntatntntan 720
gaatacatna tcntncangc nncacttanc anntnncatg acnactntgc tctctgntan 780
cacanangct ttcnngnctn tcttacgann ntgcnngcgc anatcntgac tntctnatgt 840
cgtctctcat nnatatttnn tntacatanc tnnctntctc ctncantntt gnctanctcg 900
ntgattctct atatngctca ctntncatat acanntntgn anacnattgt nactcaangt 960
cntcgnnnan nttctacgct cnctntgacn ttccaatang ganatntctn tntcacnnct 1020
gtntatncca ngtccttgan ccgannatan atcnnnatat cgacgacnng cnannnatan 1080
tctctcagcg natatncatc ngnnctctaa ncncanactg ctattcnant agnncncntn 1140
tctctatncg cncctcctan tacannattn ggnntnnntc gctancnntn tcgnctctnn 1200
ttnnntatan nntnnagctc acnnncnctg cgccatntnt acntcatncn nngtctccat 1260
anacatntac tntctatnaa ngtaccctnt ntctctcgan ancncnnatn nattgntcat 1320
nanatcanaa atntnnacnt ctctgatgac gcntctcant atactgncac tcttcnnatt 1380
attatnnagt tcatgattct ntctctcana naannncngn cnnnnctctc tnaccatntc 1440
nancgntagt gncatgcanc tanntcncca cntntatntg cgccaccatn tactctatng 1500
atctccntga nctatntnan gnatnatctn tncnccnnat ntcnctgtnt antcnancnc 1560
anacatncgc tctcatctan agtctcntan gancncgnna cananctctc acanaagatn 1620
nntagcntat taatatgana nnttcctcna nntccttnnn nncctatntn atanncncag 1680
nanngactcn cgacatntna tcatntctnt cncnaacnct nttctannng tntnaatcnt 1740
gnannctcgt antcnnnnca nttcnntntc atgcacattg cgcannntct ntncatcaaa 1800
acatactnta tnctnagacg actnnagctn cnatactctc tcnnctnnan ctngccnctn 1860
t 1861

<210> 4768
<211> 1522

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1522)
<223> n = A,T,C or G

<400> 4768
ctnttaactn ctaatncttc ttcntggcna cggcncttan tatgngccnc tnaaaatcng 60
aataggggtc tnggggggnc tactcnaccn nncncncnnc gncctnatna nnncctnaag 120
nntgnctttc cngcncttaa ntccncctct caccnncntn nccgncgngg ttttcncccc 180
tctncctcc ttncctatn ctcttnccn tccctctcct ntcccccent tntcnatntn 240
cntccctcnt nccntatctc nccccteccn ccccccccanc catcctttte tnnctccccn 300
cnnctctcnn tnccctcacc ttttntccnn tccnnnttct ccctcacnnc cncnantcct 360
acatcnnctc tcttcnccnt tnttctcncc ttnnacactc tctatcattt atcctcccan 420
ntantnttna tcccnnnnta cctnnntcta cctttccnca nanntcttca tctttccctc 480
tcactccata nctnacctna tcccnacttc tntaatctct tcnntcactn ctcnctcact 540
ctcttntctc tcnnccannn nttcacactn tnntnnnctn tcctntcnan ntcnttcatn 600
ctcancnctc ctctntnntn tnttctctnt ntccccntac nncctcccta tcnctctncn 660
cncatcnnac tcctctctnt nctcaccctc ctnctctcnc cntttatanc acncttacnn 720
ctcncctnnn cncnntctca ctcactngct ccatcnctcn ttntatanat ccccnctctn 780
tctgatctct cncctnactt ccncanactc tactnacttn tctncactnt ctancctctt 840
ctcctcanct ctcgananct ntntcncann tcatntccna ncttntatac cancgncntc 900
tacctntntc cctcacnacc ttcctctccc ttcgnatcan ctcncnccnt nctnctcaca 960
ctnnctcact nactcatncn tntnnatctc nncttantcn cncncnctnt cactctctca 1020
natactntct nntctatctt ctntcantct tntcttncnc actatncact cccctctnna 1080
tcntacccct caccatnctn tnnaatccnc tcagntacnn tctacatcat tnccntccat 1140
ctcctgctna cantntcncc acatctctct ctnnnnnccn tntnactcct ctcnccncct 1200
cctanctcat cacntccatn tcnctctctc tcnnactcta cnctntccct cnactnntca 1260
nccccnctta tccatctcnc cnntctatct accncactaa ctctctccct accnnctntt 1320
cntccntntn tctncttcac atcantctac tactcctncc tntnctctat nntcttnctc 1380
ttctnaccat tatcnccntc ctcntnncct ncncnntcta tntcntntac atcctcccnt 1440
cacttactct cacnncnctt ncctcctacc tctctcaccc tctactcntc nttntctcnn 1500
catactannc tctcnccatc ct 1522

<210> 4769
<211> 1411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1411)
<223> n = A,T,C or G

<400> 4769
ccncancccc ccnnnnnaac ccnnnnccnn nnnnccnnnc cnnccnannn nnnnncannn 60
ancannannn nnnnncnnnn nnnnnnancn ncnnncnnnn nnncncnnnc nnnnnncntn 120
nnnnnncnnn nncnnnncnn nncannnccc cnnnnnnncc cnnnnnnccc nnnnnnnntn 180
ccancntann nntncnnanc nncncnnnnn nnnnnnaaaa agaagaaggn nnnncnnnnn 240
nnnnnnnnaa anagaaacnn acnnggggnc gcgnnggggnn cncgnttttt tcccttaaaa 300
annaggaccc ttggggcgna cannngcctc acncatcgtc nncnganaca cgagacnttg 360
cggngnnnga tttttnnaaa naccgantnc cncatacnna cnacgcncnn ncgnnnnaaa 420
nnccnnannn angnangtan nnnncgaacc ccnnnnnaaa ncancncntn agnaagnncc 480
anncagcact cgctgcggta cctncnncag ccgncgnncc aatcaccnac ngntnnnacc 540

ancnctcnan gaccagctaa acctccanan agccactctg ancctcctac ctntnnagac 600
cacngaacnn attcnancag gacncannnn cctcaacacn acnatcccct cactgnnccc 660
cctcccagac aaanncannt cntnnaagcg ccatcncccn nnanancnnn natccnannc 720
annttcntan ccccatantc ccccacacac ccccccngnnc gnncantnac nnnaacannc 780
nccgtagccc cnntcctnaa ccancctanc atannacctc tncnnnccct ctctgcnccn 840
cacaacnnat nanctncaaa caanncnnca ncancacnta annennennc ccacaacncc 900
cncgncgaac atncccnnca cnnagnaccc acacataana naccnncacc cnactnatat 960
atccacaanc naanccnntn nnnnccaana ancccennat caacancacn acnaacannt 1020
cncnccntac nntatcnann atcannnnca cccncncctt annannnnnn nntnacancg 1080
tanaaaacgn ganaacnnca nnncnntcta acctnnaanc cacnncncnc acncnnanta 1140
nccctccngn anncnnncan ccnnacccnc cttnanncnn nnccccttna anacnantca 1200
ncncnacanc cnnncnnanc gacncantaa nncccaatca nctaaaacnn ctctcncnna 1260
ncnaacacat cnannacgan cntccnacan atncacganc ncnannaant cnacncanan 1320
angcntcnac ntatctnnaa acnnaannat nctcactanc acacaaatct nncacnanta 1380
ananccnnca cgnaatcanc aanataccnc c 1411

<210> 4770
<211> 1349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1349)
<223> n = A,T,C or G

<400> 4770
ncctntaaaa tnnnaaaact nnctttgggc naaaacnncc ccctcaaaca tattcagacc 60
cccttaaaac atcagggann ntatggggnt cttntngggg gccnntnnnc antntcatat 120
cnnatacana nnccccntnt ctacacatcn ctntctactt annanctctn nnctcatcnc 180
tgnnnnctat anntatctnc tcccactccc ctacttcacc tctcncnncn nctcctctta 240
ccanccntat accncancac ccaacacncn accnccnacc tancacctat canntcctca 300
nattctccct ntctcccctt ccctcctctc attcctcccn canctcnana ccncnnncac 360
ctcattctac tacacncncc nctcccctct cccnnacnnc tctccatcct ncncccccncc 420
nccttcccnn ttntcnccct cctannncaa cactccacna caccncnntcn tctcctcact 480
cctactcnct anccncannc tcanctccan actntcctna cataactacc ccactcntac 540
nctctncatc cacctcannn tcacncatcc actctcntnt cnctctcttn nnacctcnca 600
tcnntctnac acctctnccc cttctcnttc taccattcac tcctactctn nctnnctcac 660
tctctcattt cntcnaccnt ncatcactcn ttccnntacc ctatcnctct ntatctntca 720
ccatatccnc actcncgcac actctancta cnctctacct atactntcnt ctcatcacta 780
natntntacn tctctcnacn cttannnctc nactacncac tctcttctcc actncancnt 840
anacacactc cctactncac ctcacatatn tnctctcncn ntcatnatac ctctnnatnt 900
antcctcntc tncnncacnn tntncctcac acacactntc tcacactnac nctctctctc 960
tcctntctcc tcntcncnct atanacctnn cactctcant canccctact accnctcttc 1020
tctcctnctc cnctntcttc nanatnnncc nctctacacn ccacttacan naccacacat 1080
cactcctnca ccctncatcn ntcncttcac tanntaccac nncactcnca natctccntn 1140
tctntncntc nntnaccnct caccatcntn tcctnctcnc tcaccntctn ccactctcac 1200
ctcnttcana accatactcn ntntccactc cncccttcan ctcctccacc nacatacccc 1260
nncaccncac tnacncntcc annccacatt cnacacntcc ntcncncccc tcctttcncn 1320
tcctnccccc tntcntncac cccttcccn 1349

<210> 4771
<211> 791
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(791)
<223> n = A,T,C or G

<400> 4771
gnntttagan nnncngccnc ttgttctttt tgcaggatcc ctcgattcga attcggcacg 60
aggttatggt gggaggagcc gatactgagc ttcttcctat ttgccatggg cttcactgta 120
taaataggag aggatgagag cccagaggta acagaacagc ttcaggttat cgaaataaca 180
atgttaagga aactcttatc tcagtcatgc ataaatatgc agtgatatgg cagaagacac 240
cagagcagat gcagagagcc attttgtgaa tggattggat tatttaataa cattacctta 300
ctgtggagga aggattgtaa aaaaaatgcc tttgagacag tttcttagct ttttaattgt 360
tgtttctttc tagtggtctt tgtaagagtg tagaagcatt ccttctttga taatgttaaa 420
tttgtaagtt tcaggtgaca tgtgaaacct tttttaagat ttttctcaaa gttttgaaaa 480
gctattagcc aggatcatgg tgtaataaga cataacgttt ttcctttaaa aaaatttaag 540
tgcgtgtgta gagttaanaa gctgttgtca tttatgattt aataaaataa ttctaaaaaa 600
aaaaaannnn nnaaaaaaac tngagcctnt anaactttag ngagtccgnn ttacntnnat 660
cccggacctg gntaaggata ccattggntg aantttgggc caaaccccca annttgnaat 720
gccntggnaa aaaaaatgcc ttnattttgg ggaaaatttt ggggaaggcn nttnggnttt 780
aatttnggna n 791

<210> 4772
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4772
cggtttnaga atcnancnct acttgttctt tttgcaggat ccctcgatgn ngaattcggc 60
acgaggntac ntgcaatnac catnntggna tcagtncact anngcctctc ntagaaaaaa 120
ggggaccnag agacnggtnt tcaccatntc gcccatgcng gtctcacact cctgagctca 180
ngccatccna ctncctnnan ctaccaaagt gnttccgtna nagncnaact cattttnatt 240
caatggccat ngnntctnac acncnattga natntnagcn naccntannn cagttntcan 300
ataccacntg gcgnatnnan aacccccngga tgcnngaccn tngtgaacca natgctnana 360
tgccattcaa tcaggaagat gccaaaaatg nnctnnttat tntaanataa gtacttaagt 420
nancantatt cagaantgac nntctcatan ggaagcntnn ttatctnctt nnatnannga 480
nattgttana atcnttnccn ntaatccacc ttnatnnnta cccntttgtt tattaaggca 540
aaagattncn nttatccnnc tannaatgct tcatgaaatc naanntaata tttnttnaag 600
ctantntcca ccattanttn nnnntgtaca tttnntaatn tgnaannccn atcttgtatn 660
aaagaaccnt aatnnccaan nnttcctnaa tnatgnttnn attccacctt tanncnatat 720
annccnaact tntcttntct tttnttccnc 750

<210> 4773
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(979)
<223> n = A,T,C or G

<400> 4773
gtaccnattn atgtgctant ctgctcnttc tttntgcaat atcccatcga ttcgaatnng 60
gnacgagccn ncctggtcnc tgncaggatt gacnnattgn tagctntttc tagannnngn 120
gnatggtggt gcatggccga gtcttagtat ggtggagcgg atcatgaaag cccagncact 180
tgnnggacaa ctncaccatg ggctatatga nggccaaaaa ncacctggag atcaaccctg 240
nccaccccat tgtggagacg ctgcgncaga aggctgaggc cgncaagaat gataaggnag 300
nnaaggtcct gntnntgctg ctgctngaan ccgnnctgtt atcntctggc tnnnccnntn 360
aggntcccca tacccactcn aaccgcatct atngcatgat caagctannt ctnngtattg 420
ntgantatna nnctgncacc anangancccc acnncttgca actnctgatn agatcccntt 480
tntcnnnggc nacgangatn catttnntcc tngaanaagt ccatntagtc actttnccnn 540
tccnntntcn aaccctnttc ttccctanan cttacntttt ccnnatcntn cctcnncatc 600
tcgncnattc nccncatctn cnccccntcc tcatctccnn tgnnnctatc tnnccccncc 660
ccnctcnnnt tntctnattn tacttctccc tctctctcnc ntnnncattt tctancctct 720
cntncnntnc tnttactnnn ctcncntact acntcactcn nctccttact cttnncnant 780
nnnnctctnc ctntnncctc nctcntccnn tcactnancn ctcntnntnn ntcnntcnac 840
cnctntnctc nanctcannn nctnnntnca tcatcatann ctntctcncc ttanntnnct 900
ntcctcntct cncnctnttn cncnnctcan tctttctcnc tctctntcnn tctcnttnct 960
ntcaccntcc tntctctct 979

<210> 4774
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4774
nntaaatcan ctcttgnctt tttgcaggat ccctcgattc gngnnnangt cgagnacntt 60
cntagggggc ctnantctaa tangngcctt ntgnctgtca tgatngncaa ttganaagna 120
nttnantanc ncatttagaa tctantgact agcctcctct ctggtngctg gtggcattna 180
nggttcanac canccntaan tgctggtgct gtnnaanang tctcacgtgg ctgcntgtcn 240
tggctcatgc ctgtnntccc aacattctnn naggcccacn cngtagaacn gctngagncc 300
angagtncag aatcagcctg cgcaacatnn caatactccn tntcataaaa attcataaat 360
aacangtctc acgtgaccaa nggctcctga agctagaacc angtttggat acaagattga 420
agatccacan gccantcttg cntctgagcc ntnnngccta ntngngncat gtntnnnaat 480
tgntcanggc nagagcnnnc nntntngcnt natacnggaa ngncngctta attngcnnnn 540
nttcagtcca aatnnnatac tntngggacn ntaacntgcn ctatnctnta tnnccagaga 600
ctacngtctt antcatccan naaatgancg atngntnatt attcccatgg cacctntatn 660
naaatccaga gttcttcgca gnctttnngc tntttatatg tgtnccaaat nttaaaccnt 720
nataattatt gggcntctga n 741

<210> 4775
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 4775
aatcngctgc ttgctactcg tgcngatccc tcgattcgaa ttcggcacga gactttatga 60

gaagaatctt actgaaaatc aagaagctct tgcaaaagaa atgcgagcag atgcagatgc 120
ctatagacga aaagtggatc ttgaagaaca catgtttcat aagctgatag aagcaggtga 180
aacccagagc cagaaaactc agaagtggaa ggaagctgaa ggaaaagagt tccgtttgag 240
atcagcaaag aaagcttctg ctctttcaga tgcgtctaga aagtggtttt taaagcaaga 300
gataaatgcg gctgtagaac atgctgaaaa tccatgtcat aaagaagaac ccaggttcca 360
aaatgaacag gactcaagct gtttgcctag aacctcacaa ttaaatgact cttctgaaat 420
ggatccctca acacagattt ctttaaatag aagagcagta gaatgggaca ccacgggaca 480
gaatcttatt aagaaagtga gaaatcttcg ccagagactc actgcccggg ctcgtcacag 540
atgtcaaacc cctcatcttt tggctgcata gaatgcatgt caccttgaga cggtcganag 600
agagacctat tttgcaatca gtgacattga tttttagatt atttatttaa aattcctatn 660
aagatcagcc ctttgtacag aaaaatgtgt ctataaaaat tatgtgttat t 711

<210> 4776
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 4776
tccccatttt gaatnnancn agctacttgt tctttttgca ggatcccatc tattngggng 60
nannctttnt tgnnaatncn ggtacgnnnc tatgnatcan gactgnactt nggtanctnn 120
cttggcccnt acagnngnaa ngaangatgg gctggtggat tggcccacct gggagcaaca 180
tggggcangg ggagccctca ccctnagcca nccagacgag tgggatttnc cccagnacan 240
natacccccc tcacaaangg accactnaag tgcttcatta agcaagtcct ggatcctgtg 300
cccnccaact gggtgagaca ccccaatggg tcaccntaca ccttatacaa nagcatttta 360
ctggcatnan gtgggtgccc ctcaangaca nagatcccan aggannngagt ggggtctnat 420
ctttgctgtt nttccatcac tctttggtga catnttcagg tntgggaggg acccagatta 480
gtattggctt tgaangaaat tcccannnat antgcannta tncctnncat aagatggtgc 540
ctanacttgn ttataagngn ataacantna ngtctacacc naacnttcan cccntaaaaa 600
attnccctan cnaaaanncc tcaatntttn aaagggtcna ctgcttncnc tttacaagga 660
atctnantgn tggnntaacn anacnttctt tgtaaanatt ganntaaacn gggntnttng 720
tatntatann tcctnctnta acnantcctn tgatnaaang ggnttctatn taatcggtgn 780
ttctgcatcn taaccttctc naanaaanng tattctctnc taatntcanc cncntttnta 840
ancnnngtca anacgcgg 858

<210> 4777
<211> 999
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(999)
<223> n = A,T,C or G

<400> 4777
ccncnncnnn nnnnnnnnnn cnnnnnnnna nnnannnnnn nnnnnnnnnn nncnnnnnnn 60
nnnnnnnnnn annnnnnnnn nnnnnnnann nnnnnnannn nnnacnnnnn cannnnnnnn 120
annnnnnncn nagnnnnncn cncgnnnnnn nnannanngn gnacncnnnn tanancnnnn 180
nnncnnnnnn nnngnnnctg ncnncncttt tcnaaaagct ggtcctcngc nactnnncag 240
gcagcccnnc gattcagaat tcggcacgta ggccaagtat gcagtgtnaa cggctgnnag 300
nntcgagaac cngagtgtgn gctctccntg nngaccnaga ncgangcgag agctccaagn 360

anganatgan tgngacctgc atggganaag gncaggngga tatcatggag agcgtgaana 420
nccggtctga aanganacag gggtgccacc cangtgccag agatgcgaag naaccaatan 480
agcaggggan gggncaagng nnnancgaac ngaagagcan nnaacggnnn anangnnaag 540
gagcacaatg angccctnat cgcccngagc nctcacgccn atnagggctc atncaaacng 600
agcacccgct ttcnnntgcc cacaaaatng aattgantca agncacgccn gacangtgcn 660
nanagccnng ccattggaac tcgtctcccc cctangaatg ctgcccttgc nannacccat 720
tgctatgctg ctnaccannt cccncttgta ttcctggggc ccctcttatg nactgnaacg 780
antcanccgt gactaggggt aaaaacgnan gnggaaatgn tatangaant tngcaccang 840
naatcatngc ttatccatnc ccnaatgcat ngntnaaant tcnacaacta gtncgtcata 900
gnacncntnt ggaatantta ggngaaactg tggcttatna atngtccnan ntggganaag 960
gggganccana tnaacttggc tnaagcncga atgtnncnn 999

<210> 4778
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 4778
ggtgnagtnn atgtctaatn ctntgnnngc gnttgctntc gatgcaggat cccatccgnn 60
gaagaagctg cagaagaaat gaagaaagtg atgatgattt anattttgat attgatttag 120
aagacacagg aggagaccat caaatgaatt aatatcactg tattaaaagt ctgccgggca 180
cagtggctca cgcctgtaat cccaacactt tgngaggcca aggagggtgg atcnnctgng 240
gtcangantt cttnaccngc ctggccaaca tggcggaacc ccatcttcac taatagtaca 300
aaaaattagc tgggccgtgg tggctcatgc ctgtaatccc agctactcaa gaggcttgan 360
gcaggaggat tgcttnaacc ctgnaggcgg agattgaagt gagctgagtt cgtgccatta 420
cactccacct gggtgacana gtgagactct gtctcaaaaa aaatanaata aaaagtcnat 480
ttacaatgtg aaattctgac accttttggc tttgagtatt ttcccaaaga tattttgaat 540
ccttantgaa ggaaattnan aaaaaancta tgggaaaaat tggacnaaat ttcattnctt 600
gaacaatntt aaaattgggg tattatttac ctttaacant ccaacntaaa ccangaattt 660
cagnaattgg ntgggnttgg attaannaaa cntaacctca tgttnaaaaa ttaaaaattc 720
ncattanttn ccttggcctc naanaaaant nntnacncan ataaactccn ngcccagncc 780
ttttcnnngc cttttn 796

<210> 4779
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 4779
cacaagctac ttgttctttt tgcaggatcc catcgattcg aattcgcggc cgcggcgcca 60
atgcattggg cccggtaccc agcttttgtt ccctttagtg agggttaatt gcgcgcttgg 120
cgtaatcatg gtcatagctg tttnctgtgt gaaattgtta tccgctcaca attccacaca 180
acatacgagc cgggagcata aagtgtnaag cctggggtgc ctaatgagtg agctaactca 240
cattaattgc gttgngctca ctgnccgctt tccagtcggg aaacctgtcg tgccagctgc 300
attaatgaat cggncaacgc gcggngagag gcggtttgcg tattgggcgc tnttccgctt 360
tctcgctcac tgactcantg cnctcggtcg ttcggctgng gcgagcggta tcaactnact 420

caaaggcggt aatacgggta ttcacagaat naggggggata acgcaggaaa gnacatgtna 480
ncaaaaggcc ngcaaaaggc cagnaaccct gaaaaaggcc cncgttgctg gcgccatnna 540
catangcttc gacccccctga cagcatnaca aaantcgacc ttaagtcnga ngtggcgaaa 600
cccgncagga ctattnanat ccagcgtttc ccctggaact tcctaggcgc tttctgtncc 660
acctgcgtta ccgatcctgt ccgcttttnc ttnggaaant nngtttntat at 712

<210> 4780
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

<400> 4780
cacaagctac ttgttctttt tgcaggatcc catcgattcg aattcgcggc cgcggcgcca 60
atgcattggg cccggtaccc agcttttgtt cccttagtg agggttaatt gcgcgcttgg 120
cgtaatcatg gtcatagctg tttnctgtgt gaaattgtta tccgctcaca attccacaca 180
acatacgagc cgggagcata aagtgtnaag cctggggtgc ctaatgagtg agctaactca 240
cattaattgc gttgngctca ctgnccgctt tccagtcggg aaacctgtcg tgccagctgc 300
attaatgaat cggncaacgc gcggngagag gcggtttgcg tattgggcgc tnttccgctt 360
tctcgctcac tgactcantg cnctcggtcg ttcggctgng gcgagcggta tcaactnact 420
caaaggcggt aatacgggta ttcacagaat naggggggata acgcaggaaa gnacatgtna 480
ncaaaaggcc ngcaaaaggc cagnaaccct gaaaaaggcc cncgttgctg gcgccatnna 540
catangcttc gacccccctga cagcatnaca aaantcgacc ttaagtcnga ngtggcgaaa 600
cccgncagga ctattnanat ccagcgtttc ccctggaact tcctaggcgc tttctgtncc 660
acctgcgtta ccgatcctgt ccgcttttnc ttnggaaant nngtttntat at 712

<210> 4781
<211> 710
<212> DNA
<213> Homo sapiens

<400> 4781
atccagctct tgtctttgca ggatccctcg attcgtgtgc ctaagggaag ggaatcagaa 60
ggtggagaga cttgaagttg cactcaagga ggccaaagaa agagtttcag attttgaaaa 120
gaaaacaagt aatcgttctg agattgaaac ccagacagag gggagcacag agaaagagaa 180
tgatgaagag aaaggcccgg agactgttgg aagcgaagtg gaagcactga acctccaggt 240
gacatctctg tttaaggagc ttcaagaggc tcatacaaaa ctcagcgaag ctgagctaat 300
gaagaagaga cttcaagaaa agtgtcaggc ccttgaaagg aaaaattctg caattccatc 360
agagttgaat gaaaagcaag agcttgttta tactaacaaa aagttagagc tacaagtgga 420
aagcatgcta tcagaaatca aaatggaaca ggctaaaaca gaggatgaaa agtccaaatt 480
aactgtgcta cagatgacac acaacaagct tcttcaagaa cataataatg cattgaaaac 540
aattgaggaa ctaacaagaa aagagtcaga aaaagtggac agggcagtgc tgaaggaact 600
gagtgaaaaa ctggaactgg cagagaaggc tctggcttcc aaacagctgc aaatggatga 660
aatgaagcaa accattgcca agcaggaaga ggcctggaaa ccatgaccat 710

<210> 4782
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(705)
<223> n = A,T,C or G

<400> 4782
tnctaggctc ttgttctttt gcaggatccc tcgattcgtt tggtcagttg caccttctgg 60
gtcactggta gccgcgggag ccgggtgggg cctaggcgat gatccggcat taaggagctg 120
ggatcatcct ccgtctcagg tggtttgggg aaagtgtagg ggcaaccaaa gatcatcggc 180
ttgactaggc cctttgccct gaacctcatg aagaaatgat aggaggcaga catatgtgcc 240
taaaaagagc gttgagctca gagaagagca actcggagtt ttgggggtgt gctttgattt 300
gtgtacatca atggcagaat catccagcga atcagatcac ttccgctgtc gtgaccgatt 360
gagtccatgg gctgccagat caacgcacag gggaactcga agtcttccta cagtagaagt 420
taccgagaag gtcaacacta taacaagtac tttacaggat accagtcgga acctgcgaca 480
agtggaccag atgcttggac gatacccgag aatacagtaa tggacaggcg ggtgccatag 540
aacatgtgag aaactacatt tgnttgcatt tctnctaccc acctttttg ggaatgaatg 600
ttttggggaa tggggctntn accttaagga aaaaaccnnt gngnaatgct ttaaaatttt 660
aaaactgatt taatatttta tagtttaagt ttaggtanct tgncn 705

<210> 4783
<211> 733
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(733)
<223> n = A,T,C or G

<400> 4783
tttgaatctg tctctctttn aaaccntngg ctncttgatg tttntgcgga tccctcgatt 60
gcgaatnntg cacgagatgg tgtttnccct ggaagctgag aanaatgggg ctttaatgga 120
acaaatngct cangaagctg tttgtnatgc agnttattat ggaaatggcc aaaaactgta 180
atgtggatcc aanagggtgt tttcgtctat ttttccagaa ngccnaagca gaggaagaag 240
gttattttga agcattcaaa aatgaacttg aagctttcaa gtcaagagta agactttatt 300
ctcaatcaca aagttttcaa cctatgacag ttcagaatca tgttccccat tctggtgttg 360
gatctatagg tttattagaa tccttaccac anaatccaga ttatcttcag tattctatca 420
gtacagctct ctgcagctta aactcggtgg tacataaaga agatgatgaa cccaaaatga 480
tggacactgt ataatttggt taagactgct gangccaagt gctattttgn tacaacgaaa 540
ggaagaactt ggctatttcn tgacactttt atgggtgctg cactttattc ttgngntngn 600
tttttgatgg ggagggaaag agnactgaaa tgttttcgna aatttttntt tanngtgccn 660
gcttaggnnt ncttggtntn gactctggtg tctngaataa gangagntgn tcccatatgt 720
ttngnnggna anc 733

<210> 4784
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(709)
<223> n = A,T,C or G

<400> 4784
tnaattcagc tcttgttctt tatgccgatc cctcgattcg aattcggcac gaggccaagt 60
atgcagtgtc aatggctaga agaatcggag ccagagtgta tgctctccct gaagaccttg 120
tggaagtaaa gcccaagatg gtcatgactg tgtttgcatg tttgatgggc aggggaatga 180

agagagtgta aaataaccaa tctgaataaa acagccatgc tcccaggtgc atgattcgca 240
ggtcagctat ttccaggtga agtgcttatg gcttaaggaa ctcttggcca ttcaaaggac 300
ttttcatttt gattaacagg actagcttat catgagagcc ctcaggggaa agggtttaag 360
aaaaacaact cctctttccc atagtcagag ttgaatttgt caggcacgcc tgaaatgtgc 420
tcatagccaa aacattttac tctctcctcc tagaatgctg cccttgacat ttcccattgc 480
tgtatgttat ttcttgctct gttatctttt gccctcttag aatgtccctc tcttgggact 540
tgcttagatg atgggatatg aatattatta gacagtaatt ttgctttcca tccagtatgc 600
tagttcttat tcgagaacta tggtcagagc gtatttggat atgagtatcc tttgcttatc 660
tttgtagtac tgaaaatttg cccgaagtaa ctggctgtgc agaatgtat 709

<210> 4785
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

<400> 4785
gnnngntgnc cggncnttta tacaatacag gctacttgtt ctttttgcag ggatcccatc 60
gattcgctga cctcctcctc agagaaagca ctggccaacc agttcctggc ccctggccgt 120
gtgccaacca cagccagaga gcgagtgccc gccacacaga cggtgcatnt gcantcacnn 180
gcgcggtaca ccagcgagat gcggagtgag ctactangca cggactctgc aatgtgagtc 240
accatgaaca caacatgact tgagggccaa ctgactaang acaagacatg tattcttgct 300
gccccagggc cttcatgcca tggactccnt gcnntgantn naacangagc atcaccaaac 360
tacncntgna nnaataccan gactnatgat aatggncccg anangaanca aagctctgna 420
cantggctna tacnttgtna tttncgtagc tgaagcatgn ggntcacctn nnntcangan 480
tttggngacc aacntnncna actntnactn taacncatgn cttttctaaa nnttnaaant 540
tttaatnncg nntncaacnt tcncaatntc tggnnttccc nanntgctnn gnnaggnaat 600
ctnncnntga ntaaaantnt ttnanacnca anaaagntgn agggtttcaa nntaagcttn 660
aananntant ncaaattnat actttntttn gngntnnnta ntagnnnnnn tnanaacnnn 720
tntntttctt antnatatta tnatagcnta atataannnt atantnatan ncnatnnann 780
naacgtctan annttttttat ntcnntaaan atttcttttn naaggntntc n 831

<210> 4786
<211> 793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

<400> 4786
tttnnnngnt ttannncatt ttgctactng ttctttttgc aggatcccat cgattcggaa 60
ttatagtatt gacgtgaatc ccactgtggt atagattcca taatatgctt gaatattatg 120
atatagccat ttaataacat tgatttcatt ctgtttaatg aatttggaaa tatgcactga 180
aagaaatgta aaacatttag aatagctcgt gttatggaaa aaagtgcact gaatttatta 240
nacaaacttn cgaatgctta acttntttac acagcatagg tgaaatcata tttgggctat 300
tgtatactat gaacaatttg taaatgtctt aatttgatgt aaataactct gaaacaagag 360
aaaaggtttt taacttanag tagccctaaa atatggatgt gcttatataa tcgcttagtt 420
ttggaactgt atctgagtaa cagaggacag ctgtttttta accctcttct gcaagtttgt 480
tgacctacat gggctaatat ggatactaaa aatactacat tgatctaaga agaaactagc 540

cttgtggagt atatagatgc ttttcattat acacacaaaa atccctgagg gacattttga 600
ggcatgaata taaaacattt ttatttcagt aactttnccc cctgtgtaaa gttactatgg 660
tttgggggta caacttcatt ctatagaata ttaagtggga agtgggtgaa ttctactttt 720
tatggttggg gtggaccaat ggctatcaag agtgacaaat naaggttaan ggatgattcc 780
caaaaaaaaa aaa 793

<210> 4787
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4787
naatngcnag gctcntgctc tntgngcagg ancccatcga tncgaattcg gcacggaggt 60
tatgagtggt catngtgaaa atttggntga atacagcaan gtagcaagaa aatnncngnc 120
ntatntacta canttaacct ntatnaactg nnnngncata tgacatccaa atgttntatn 180
atnacctggn aaanttanta tagtntanga tactaaaaca gtatgnntac aaaagtgaac 240
tnnctgtgca nntntcacag gntttattca tgtgacacta tatantgcct anngtcacnt 300
ntcanccang ttcntctnna gtgnaantnn ntcnagngca tctngcacag atgctnnatt 360
gactanagaa tgaatncnnt gggcgnnnat acntgggcta actgcngnna tngatcattc 420
tananngcac tnatgnanat ancccatan angccggaca gacggtanac atacnnanng 480
angcnccaga tnctttann atgnatnatt gagatttnac cagtctcatg tgccccgcgt 540
tntgtgttnn nctnanacan gcngattnac nctgntctag ncatcttgnc tnnatcgnga 600
aataatggct cctgcctcca tnataatgtt taggagngaa atgnaannan ttcgcgtggg 660
cntgctngag tgcnaaaggc ctttacnngt tgngancnaa ntngggnagc nagttntcnc 720
cnnatngtac gctcccctna ncaatntccg 750

<210> 4788
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 4788
tgnnnttttg nttcnaatgc nngctcttgt tctttttgca ggatcccatc gattcgcgca 60
aacttttcan tctctctaaa gaagatgatg tccgccagta tgttgtaaga aagcccttaa 120
ataaagaagg taagaaacct aggaccaaag cacccaagat tcagcgtctt gttactccac 180
gtgtcctgca gcacaaacgg cggcgtattg ctctgaagaa gcagcgtacc aagaaaaata 240
aagaagaggc tgcagaatat gctaaacttt tggccaagag aatgaaggag gctaaggaga 300
agcgccagga acaaattgcg aagagacgca gactttcctc tctgcgagct tctacttcta 360
agtctgaatc cagtcagaaa taagattttt tgagtaacaa ataaataaga tcagactctg 420
aaaaaaaaaa aaaaaagcct ctagaactat agtgagtcgt attacgtaga tccagacatg 480
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 540
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 600
gttaacaaca acaattgcat tcattttatg tttcangttc anggggaggt gtgggangtt 660
ttttaattcg nggccgcgcg ccaatgcatt gggcccggac ccacttttgg tccntt 716

<210> 4789

<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 4789
gnnnnnnnnn ttttnaacgc tngctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag gagagcttgg gatgtggtaa tgccagccac actcctcaga gccgtggcca 120
gatctcatca tatattatca aaagcacatc agtgccgaag aatcggtcat ctaatgttaa 180
aaccacttaa ggaatttgaa aatacaacat gcagcacact gacaatacgt caaagcttgg 240
atttgttcct tcctgataaa acagctagtg gtttgaataa gtctcagatc ctggaaatga 300
accaaaaaaa gtcagatacc agcatgctgt ctccattaaa tgctgctcgt tgccaagatg 360
aaaaggcaca ccttccaacc atgaaatcct ttggtactca caggagagtg acccacaaac 420
caaatctgtt gggttctaaa tggtttataa aaatattaaa gaggcatttc tcatctgtat 480
caacggaaac atttgttcca aaacaagact tcccacaggt gaagagacca ctaaaagcat 540
ccaggaccag acagccatcc aggaccaacc ttccagttct gtctgtgaac gaggacctaa 600
tgcactgcac agcatttgca acggcagatg agtatcatct gggaaatctg tctcaagatc 660
tggccttcca cggatatgtt gaagtaacaa gcttgcctag agatgcagca aatattttgg 720
tgatgggtgt ggaaaattct gcaaaagaag gtgatcctgg aacaatattc ttcttcaggg 780
aaggagctgc tg 792

<210> 4790
<211> 829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(829)
<223> n = A,T,C or G

<400> 4790
ggtggnnggn ngtanttcta atgctggnct ctcngtctnn nncanganca cncnncggga 60
atnctcanna ncncaccttc nagcnccttn tgngagttct gatcanggna ttacactctt 120
ttnatggggg cctgcctgta agtgtagaca tgcacactca gctgaccttа ctgntcaaaa 180
gctggagaaa aagaaacagc tttcatacag tgcaaactgt ctacgtctat gtaaaagaat 240
ttgagaaaca tggcagtagc cattgctaat taatctgggt atgtgtaaat agtttaactt 300
gatttttgac tctggngttc ggatctattt taagatcgat ggagttaatt gcttcatgac 360
agttcttatg aaacatgctt cnntatntcc ttgtgccaan gtntcgntta cagatnttnc 420
naaangaatt nactctgcna aatactgnaa tgacnnntcn ngtgngacnt gttaggcgna 480
acgatanatt tgngagntnt nttccttttg tatngatttg gnnttangat gcanganncn 540
nattttcanc cnagngtgnn catnaancct gacganaccn ctanttnttt ttaanncctg 600
tattaancac ctagantgcc ccggngnccn aaataactna ngncccacnt cntntaaaga 660
acttctgnna aanntagttn agnccntccn ggccnntaaa ntggggngat gnannaaaag 720
ncngaaaacc nntgtancca ccccntantg gngcnnctnn nnctattnnn tcnnnccgnt 780
nnctccntac atatcttncc ctnaaatnct ttgggcntca acnaatccg 829

<210> 4791
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4791
nggnngttna tcnncntgnc agctcttgtt ntttttgcag gatcccatcg attcgaattc 60
ggcacgagct cagtaaccca attactagtn ccttttgaag agaccaggct gggaattggt 120
agtaataata atagctgaca tttaccaggg gctacccaca tgccaagcat catgctaatc 180
ttgccaggtc cttctgagtc antgtgaatg gcangagcac cacatgttcc tttntcttca 240
gttcacacac attgagtgtc ttcatgtgta agtaacaaca gagactgagg gcatatgtat 300
tgngtaaaaa aaaattttgt tactgggaaa atagccatta ctgggaaata gctttgttac 360
agaaagtcct tcatgtggct gggcacagtg gctcacgcct ggaatcccag cactttggga 420
ggccaaggtg ggtgggtcac ctgaagtcan gagtacaaga ccagcctggc caacgtggtg 480
aaactccgtc tctactaaaa atacaaaaaa attagctggg cttggtggca tacacctgtg 540
atcccatcta ctcgggangc tgagggagga gaattgcttg aacccgggan gcngacgttg 600
tagtgcgcca aaattgtgcc cttgcattnc agcctaggcn ngagagtgag actccgtctc 660
aaaaaaaaaa aaaaggtgat ttaattaaaa ccagatgaac ccttncatga tcacgtgcta 720
tgaattaaaa caanatnnna aaaaact 747

<210> 4792
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(860)
<223> n = A,T,C or G

<400> 4792
ctncttntnt tntnnnattt ttnanttntt tanatnantn tntttanttt ggtgtngntc 60
nttnttctan cctacacnct ctttctctat ctanancncg gggnttnnca aaaatntggc 120
tcttctatnn tntcngnctc ntctatnata cacccantgg cgaatccaca tncagggggt 180
ctncaccaaa gttccaacct ccaaagtgaa ngactccgtg gaacagcaag ggnaggtgaa 240
gaantaataa aagagaaaga aangaanaac ngcanaanaa aangaaaana gaaaagaaag 300
aactaaagtt agaaaaccac caggaaaact caaggaatca naancctaan aagcgcaaaa 360
agggacagga ngctnacctt gaggctggtg gggaggaagt ccctgangcc aatggctctg 420
cagggaanag gagcnngaag aagaancatc tcaaggacag cgccagtgat tgaanangca 480
cncntnggcg canggaatag gaanccngan gcactnggaa tttgaaacac attctannaa 540
gaaaaagatg aanctcccaa nancatnctg anggccgnga accanangac natgantgct 600
tcctgcaaaa ggttaattca actggtaatg gaactatttn aaagcaaatt ctgaaaccan 660
gnccccaga caatgnaaat naccattcna taaagcctna ggnaaaaaat gttttatgct 720
ccanttctta ccacaanntg acatnattga gccatnnacc atattcccna atgatggaaa 780
cttccctang tncattcntt ttaacnaaga aaattcaatc cnannaaccc cttaaccttt 840
naannttatt tanaaggnnn 860

<210> 4793
<211> 1222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1222)
<223> n = A,T,C or G

<400> 4793
gnnnttttttn ccctnaaaaa atgggccctt gggggttttt cccttaaaaa ttggnccttt 60
gggggttttc cnnaaaatnn nccttttgggn tntaannacc gngnccgttt tttcgngnna 120
naannngatn ntctnntncn nctnnnnnnn annnancnnn nnntncannt ctatnncnnc 180
nnnnannann tatcnnnnna ctctnntcaa ttcnnnnnnn actnnnntat nnnnatnnan 240
cnnnntgnnn annnnnntnt catcntcncn nantnncnct atnncnnnat ctnannctct 300
cntnnnnata nacctgncat aanactnnnn nncatagtcn cttnacanct tnttatancn 360
ctnatacacn atctnttcta antctantnn atnatanacn tccatcatna ttnnntactt 420
ncanaccccn ctnnccctac nctnanncnt cactcccnnc cnnatctntc tctnctatnn 480
natcantntn nnnccancca ctnnnacnnn ntactantct accnnncttn natctcnatn 540
natcatancc atncntccnc nccacnnttc ncctnttaac nnntntatnt caatanaatn 600
nnctnancna ttacntcnnc tcncntcttc attttnntta tctnctcatt aannnnnnct 660
ccnncntcan ntnnccntnt nntactcnnc natcccntaa ntnctccnca atcatactca 720
tcntctccat anatactcan atcctatacn nactatcanc tanntcttcn antatattnt 780
tcattnttac natccctctc tccntcannt ntnaanacnn cnanntacnc ttanatctat 840
ntntanatac antcnnntnn ncncaatntc anatnttcta tcatnctcnt aannatcctn 900
nntntnnnta taatcctanc nanccacann nnctccnnta tntnnnnaca catntatacn 960
cnactnannt tctcnntcct natnacatan cccacnctnt ncatacantc ntcncatntc 1020
ntnnnttnta ttnttcanct antaacatan tnanantcgt actnnnnann cancactncc 1080
ctcnttatat tcatcnatct ntacatacca tctannnann nacnnttcac nnatncntct 1140
ncttnaatta canncacnct cnntcatann tcgnntatat atcactctnt ncnanatcca 1200
ctntntctnt nntctccncc cg 1222

<210> 4794
<211> 1068
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1068)
<223> n = A,T,C or G

<400> 4794
ggngcctttn aaaatacccn gnttnnanac gcntngttac acncnctagc ttaaaagggg 60
gnggaaccct atggntgcat tgactgtggc aaggccttna gccnagaagt tttgccttgt 120
agcacatcag ggtatatcat acagggaaag actnccttng tatgtccnga angngggcaa 180
ccctgntcac agaagtcagg actcattaga catcangaaa atncactcag gagagaaacc 240
ctatnaatgc anngactgtg ggaaagcctt ncttncaaag acaangctca ntgtcannac 300
agaacnnaca cgggagagag accctatgnc tgngatgagt gtgagaaagc tnncttctat 360
atgtcntgcc nttgttaaac atnagcagaa tacactcann ggaagaaacn cnnggngatt 420
cannngaang nggaaatntc ctgaccacan ncanggtncn tntcnnnnag ttcctaanta 480
gaacaatggn gcnanngngg tanaaaggcc cctgntagna natannntna anaccttggt 540
nggcnnnnat ggatnnggnc nngtggggtn aatactgatg tgnatntctc nggntnancg 600
accantatnt tngcatntnt tcctattggn agnaatacct actntntaat ntcnnnatnt 660
nctgcgggan ntannnttnt ttagcatctn ctatccataa nnnncnaaat ngatcatcat 720
atnntcnatg nnctcatctn gtctnacact nttgggtngc catctgctnn agacatnnna 780
ctntaanctn taaattnatc gctnantann acccanngtg ntnaccagcn gtnacnncnn 840
gctnctcngt nnngtatant ntcacnatca tantcantga atntanngan acgngcatct 900
tntnannctg cctcnnactc tatcanaatn aagtnncncg aggnactcan antnactntc 960
nnntnnttcn canaatgtat catnnnctcn nnanantatt ttgantgcan atcatngnan 1020
acntatgaan ccnaatcatg tntattncna nngcnttact tntnancg 1068

<210> 4795
<211> 816
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 4795
tttctaaatn gcttgggttt cnaaatccct tggttgacgc cctcgcctaa nntggcgtgn 60
nantgcccnc gattcgctgn caagtctgga antcatattg gagcctgngt ngactgaaaa 120
ctcagcanga gttgatgtta aagtcttggg tctgaaattn gtngggcagg agattaggct 180
ggaaactcag gcagaatttc tgtgttacaa tcttgaggca taattcttct ccaaaaaaat 240
ctccattttt ttctcttaaa gccttggatg agccttggat gattggatga ggactaccca 300
cattatctag ggtaatctcc tttgcttaaa gtaaactcac tgtgttaatc acatcaacaa 360
aataccttca cagctacatg tagtgtttga ccaaacaact aggcaccata gcctagccac 420
ataaaattac tatcattata ctttgtctta tcacatactt ctaccttgga agggatattt 480
cccagttggt atagctacaa aacagaggca gatcatttag cctgcattng attngtantg 540
aaaaataagc ctttggtgng tttaaccact gaaaatgttt gcggcctatt agtantngca 600
caacttatcc tatnctggcc aaacatagaa tgctttcggt ttgcaaggta acangatccc 660
ctttacagnt gtacnaaaaa tnancnntaa aaaaactnga gccctntaga acntnntagt 720
ggagtcggan ttaacgttng ancccagacc ntggattang gatncattgg atggagtttg 780
gacataccac cancttggaa tggcnantga aaaaaa 816

<210> 4796
<211> 1094
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1094)
<223> n = A,T,C or G

<400> 4796
cnnncaaana cnnnnnnnaa nnnanaacaa cgggggcgnc ncnanttcaa anctggnaaa 60
cnnntccnnc acagncnacg aacgaaangg cacnagcnng cnaggaaacc gccncngcnc 120
agcaaccgaa ggccaggnaa ttttnaanat cggngnggga ggacagnggg ggncaatatg 180
ggcgggantn nncttcaaac angnaaaccn tnccnngngg cggggganac cncggncacc 240
atggannaan tncnacaana ccgnggggaa gacnggntat gcaggcnccg ccataaancc 300
ccccctacta aggcnncang gancaccaac agntggnggc cancaaaagc ntntaanaac 360
aanacctnac aanntcnnca ncnntttngc ntatcccacc acnggganac angncaacgg 420
tggacnctcn aacaannaaa atnngaaaaa caaatctccc caanaatngg ggggngaacc 480
anngnnangn nanctnnaac canaccgtcn tgnaacnngc nccaatacaa ngggnngnan 540
gnngncanaa cangcnnngn accngcacgn aaggnggnng gcnngnatca cancaaacag 600
acaatatcca cggcgnaccc cnnncacncn ntnaacggga cccngagtac acacangcac 660
gaangcccnn ccngncccac ncccctgnaa ncgagaaaac naangccngg atacaaaaaa 720
ccccnaacca gccggncntn ncccccccaac nngannaaag naacanaccn cacannngcc 780
nnngacaaan cncnacaana nngggnaaac aaacnctatg gganatcccc ctanggnang 840
cngacccgnn aaacgganna ncacaancta aacaancngt ncacgccaaa aaaaacngcc 900
caaggcccca tcacngaang gaaaacncna nacggnnann anagncnccn taannaaann 960
ccncnncnng nncaatcncc cattcgaaaa ncncncnctn ccgcnaannn ggaanacnnt 1020
caaaaccccc cgannncgac nntatncagn aacannaaan ntggtgtnac cnncccnnnc 1080
ctaananatc nncc 1094

<210> 4797
<211> 930

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(930)
<223> n = A,T,C or G

<400> 4797
ttttgctaac cgctggncta ctcgntctct nngcaggatc ccatcgattc gaattcggca 60
cgaggtggag agcgcccagt ttccagagta tgatgacctc tactgcaagt actgctttgt 120
gtacggccag gactgggccc ccacagcggg tctggaggag gggatctcac agatcacatc 180
caagagccaa gatgtgcggc aagcactggt gtggaacttc cccattgatg tcacctttaa 240
aagcaccaac ccctacggct ggccacagat cgtgctcagc gtgtatggac cagatgtgtt 300
cgggaacgat gtggttcgag gctatggggc cgtgcacgtg cccttctcac ctggccggca 360
caaaaggacc atccccatgt ttgtcccana atctacgtct aaactgcaga agtttacaag 420
ctggttcatg gggcggnngc ccgagtacac agaccccaag gtggtggctc anggtgaagg 480
cccgnnaang gtgtgtttgn ggcccaaccn acnccaatag ctggngggca acacagaata 540
gntnctgtat aataatagtc tcattttcan agaaanannt tnntattccn ctcttnnttc 600
ctaatcncna ntncttatta ntntntaccn tcnnnnnncc ncctcatttn cnctntttca 660
ttttatcntt atcttatnnn nntcnancct actnntatta ctcctnncct nnantctcta 720
tncctacnac cttntaatac ctncttantc tanacttcnc nctctntacc ntctctctca 780
tnctntnnct actctctccc tctcttctnc tccatattat tcttctctnn nantctntct 840
tnttntctnc tattancntn cctntctntn tctactatat catcatntnc tntcnanctn 900
anntntctat ctcntacnta ctcanacaac 930

<210> 4798
<211> 801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

<400> 4798
aaaaagncag gcnacntgna gacanaagan cccanngaag aancncagga aaagcccacn 60
ccgaaggggn anacggacga gccnaggcaa aggncannaa gaacagngat ttacanacga 120
tntgcccnga ancncnnggg gngaaancag nggcngggcc accagnaaag aaacnagnnc 180
gcccaggncn nngangnana cnanaaacgn aaganganga gnnagggggg aancangaca 240
ggagaggcaa aannaaaagn nanananagn ggcnagncgg acngaagaaa naaacaaggg 300
gngaagnaca ngaacnaaga aanagcaaag anaacnnaaa gngaacaann ccagcgccna 360
gcannanccn aggangcaca naaaacagca ccaagaagac ngnannagca ngagagnnga 420
agaganggcg cncacgggga cacacnaggc aaacgcgana agcagnacng gncnaggngn 480
cgcgaagnan aagagacnca aggggangag agcanaaggg aacgggnngc aggaagaaga 540
caangnaacn caggaacgaa aaagggannc agaaagccgg agaanaacac ggngaganag 600
naccaaaggc naanaaggng acaangggca agagacanan accangnngg acnnaagang 660
cnacannagg naaaacanna gangaaanag gggaacanga angnaaaagn gaaannnggg 720
ggaaaaganc aaacnaaaca gaaaacgggn nnggaaaaan nacaanngaa naacanggng 780
ncaannggaa nnaaagggga n 801

<210> 4799
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 4799
gmnnttttna annncgttgg tttcnatgta ncatttacna gntctttttg caggatccca 60
tcgatcgcag gtccacagcc gaggtcganc ancggcacag cgaggtcggc agcggcncag 120
cgaggtcggc agttggcaca gcgaggtcgg cagcggcagc gaaggtcggc agcggcncan 180
cgaggtcggc aancggcagc naaggtcggc agcgggcccc cgctgtgctc ttccgcggac 240
tctgaatcat ggcnaaccac nggccacgat ggcgacctcg gctcggcgcg aaagcggctg 300
ctcaaaanag gaagacatga ctaaaagtgg aattcgagac cagctaagaa gtggatgtga 360
cccccacgtt cgacaccatg ggcctgcggg aggacctgct gcnggcatct acgcttacgg 420
ttttgaaaaa ccatcagcaa tccagcaacg agcaatcaag cagatcatca aanggagaga 480
tgtcatcgca cagtctcagt ccggccagga aaaacagcca ccttcagtat ctcagtcctn 540
cantgtttgg gatattcaag ttcgtgaaac tcaagctttg atcttggctc cacaagaaan 600
ttggctgtgc cagatncata aggggcttct tgcttntcgg tgactacatg aatgtccant 660
gccatgcctg cattggangg acccaatttt tggccaagga catcanggaa cctgggttta 720
cggacaacat gttttcncgg gcacttccaa ggccgtgttt ttganatnat ccttncaaaa 780
aaccctaang gacacctgct nttnaaaaat ttg 813

<210> 4800
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 4800
ttnaatnctt ggcttttcan aatngctgga ngactngttc tttntgnang accgcacgag 60
cacgaatncg gcacgaggtc actntgnaac ccagactggg agtgcancgg tgtggncata 120
gggnnctgng cctggnanng tntgntcgag ntgtnatcnc nantttgntt ttgggtctgt 180
agcttaanna tgcngannna ngatgcnnnn anngnttntg tnaganatgg ggtntancna 240
gtttnnncna ncngnnttca attncatggg ctcaantgaa ccnctgcnnt ggnctnctna 300
ntatnnggga ctnncagaca tgngnnanna gtnctggtgg canatctcaa tattanaggt 360
aatatgnnat agtgatatcn atgacngtac catttgnntc aaaatgtgaa aganataccg 420
ctgaagttan tatgtnctnc cttccaantc nagccgccat ntcnntcnac tcngcnanta 480
tgtcgactca naatgaatga tngacatttn ngntantncn gcatcctatc nagtgctatt 540
atnnctanan atntcnataa ttnnctngnc cctnnancct acanncntng tcgnatgtnt 600
atccnncttn ntggancttt gaaannttcg atagggggaa cntgatnagn gcagtntnac 660
anaatgnttg cnanttntna ntcggaaana tcnaattngg gnagctgnta aacancnngg 720
gcntaccttt ntaatgtncn ngggtntnta antcaaccng gntncngaaa aanaac 776

<210> 4801
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 4801
tnnnnntttt naantcaatn ctggctctcg ttctttntgc aggatccctc gattcgaatt 60
cggcacgaga tggcagttgc ttttgaagta tatgatgact tcctccacta caaaaagggg 120
atctaccacc acactggtct aagagaccct ttcaacccct ttgagctgac taatcatgct 180
gttctgcttg tgggctatgg cactgactca gcctctggga tggattactg gattgttaaa 240
aacagctggg gcaccggctg gggtgagaat ggctacttcc ggatccgcag aggaactgat 300
gagtgtgcaa ttgagagcat agcagtggca gccacaccaa ttcctaaatt gtagggtatg 360
ccttccagta tttcataatg atctgcatca gttgtaaagg ggaattggta tattcacaga 420
ctgtagactt tcagcagcaa tctcagaagc ttacaaatag atttccatga agatatttgt 480
cttcagaatt aaaactgccc ttaattttaa tatacctttc aatcggccac tggccatttt 540
tttctaagta ttcaattaag tgggaatttt ctggaagatg gtcagctatg aagtaataga 600
gtttgcttaa tcatttgtaa ttcaaacatg ctatattttt taaaatcaat gtgaaaacat 660
agacttattt ttaaaattgt ccaatcacaa gaaaataatg gcaataatta tcaaaacttt 720

<210> 4802
<211> 1117
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1117)
<223> n = A,T,C or G

<400> 4802
atnncnnnnn nancncatnt nctantcctn acnantnnnc ttncncntnn nntnntnctn 60
ananttggna tntagnggna ttcnaatncc cagctntngn nctntttgca ggatcccatc 120
gattcgaatn nggcacgagg aggaattcag ctatcagctc tcttcatgag tggagtagac 180
atggccttgt ttgcaaatga ngnntgcnga caaaccaatc ccctgggaac actgttgtcc 240
ttggatgtat tttgatggga agctcttcca atccaaactc ctcaaagcca gccgggaaaa 300
gaccccactc attgacctct gtgatggtca agctgatcag gctgccaagg tagagaagat 360
gcnccatanc gtcctcnaaa gggctcagct tctncaggca nagccacann cttnccttta 420
ccgncgtcac ctgcnctgct cttttacccc tgtctntgnn taccccccntn nacttttttan 480
nccnnntncc aacccctntt aatggcncnn ngncantaat gctntttnca ttncnnttct 540
nttngnnctt nntctcctan gnccccccctc attatngcgn naaanncacn gactatnttn 600
ntctnatggg cntcccttta accnccnctg nncacactnc tcnntcntan tntnnatntn 660
tctncnatnn tanncnnctc aatatcntcn ccatcacnnt atctatcctc nngtncctnt 720
ctnnctnant tnnnatcana ttttctattt nncnactcat ntctctacna tcntantnta 780
tnnntatcaa tctcananta nactantatn tcantntnct acannatata atatnctctt 840
ttnatntntn tnntnatcat ntanatnatc tntcntnnat anctacatct ctctntctnn 900
ncatntcatn tagatacann tanatntagn taattatann ncttnttctt anttncnnnn 960
nttcncntnt catcnctctn nnncgtannn ctctccnntc attcnattca tacttcnnat 1020
tgatnatnca ntannccatc ataatntcac ntccctcata ncttnttctn caannntatnn 1080
anattctcna tatttcntta tctatananc nttgccn 1117

<210> 4803
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 4803

ttcaaatngn aggctctngt tctttttgca ggatcccatc gattcggnag antcccatnt 60
ctnnctgctg acgagggacc tgctttggtg agtncgggaa ggcccaggga gtngnggcat 120
gcnggctnct nattcactat ggggnttcgc cntggacacg tantcaantg cgcatgctgc 180
tgcccatgtn tncctgcccc acttcaccca nttgggggct gctcaagggt ngnnnggcnt 240
cngtggctgg aggccagtat ttanacaagg ctctgtacat gacacncaac tgtgctnana 300
gtnccttcnc tcngactaca ccnatgnttt nacagtnccc tnntgnnnnn tcntnttact 360
acagtgcnan aacccnaatg ancntttnnt tcctgctnna tgccnncnnn antnnnngac 420
nttntgttaa tgttaacnaa gtgtgtacac tttaaancca catattgtat ggtntcctgt 480
annatnangt gccngaacat gnacatttcg atanccanag attagattan nggttntcat 540
anggctgggg gaannggcat ancttagtga ttggtaatga tntgggattt nttttgggaa 600
tgaatgaaaa tattctaaaa ttngttgggn nnttatccna attctacgaa atattnttaa 660
aaaacccacn tgaatttgnc tactttaagn agagtgaaat ttnatgtcct tgttcctcna 720
attaagcttg ngnaaaaaga tcgtaaaanc nngatnnnaa ntttctntna nntngnnctn 780
t 781

<210> 4804
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4804
aagctcttgt tctttttgca ggatcccatc gattcgaatt cggcacgaga aggctgagac 60
anganaatgn cntnaatngn ngaggcagag cttgcagtcn nttcgagatc acnccactgn 120
actncaaccn gngagacana ntnngactcc ntctnatacn atgngaaccc taaaatatgg 180
gntttntgca cattccagat ctcaanancn tgattctaan tgaaagatgg caatatncca 240
tcagaccagg tnttntctag ntccntntta cgaaatgtcc acaaatggca ggatcttcag 300
antcctagtn actgctantg ntncnaggaa tntttntnng gngactanna tgtnctaaan 360
ctnantggag gtgatggtnn aacnantngg tcactncact aagaatcatt nnatngnnac 420
tctatntggg canatantat ngcnaatgta ccttaatnan atcatgcttn aangtcaatt 480
aatccactca tgaanttnan cctctananc tnnagtgann ngtattacgn ncatnccnac 540
ttgntnagat ccttggatga ntatcggact aacccntnat cttatgcagn ntacaaaaat 600
gccttttnna gggnaaatnt gcgatgctat ntgcnttatc cntaaccatt tgtacnntcc 660
catttaacag ggttaccnnc catccaattg gcaatngatt ttatggnttc ntggtttncn 720
ggggttngat ttgngaangt ttnnttantt tcc 753

<210> 4805
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 4805
agggnnnnnt tttnagatac agctacttgt tctttttgca ggatcccatc gattcgaatt 60
cggcacgagg tttgatcatn ggncaaggtn ctggngagaa ctgcctntgn ggntagctga 120
ttnnggggtc cttcatatga acganctgnn tggagcactc acaggactca cccgggtacn 180
aagattccaa cangatgatg ctnacatatt ctgtgccatg gancagattg aagatgaaat 240
aaaaggttgn tnggattttn tacntacggn tatagcgtat tnggatnttc ttttaaacta 300

aacctttnta ctcncccgga aaaattcctt ggagatatng aagnatggga tcaagctgag 360
aaacaacttg aaaacagtct gaatgaattn ggtgaaaagt ggganttaaa ctctggagat 420
ggancttttct atggcccaaa gattgacata canattaaag atgcaattgg gcggnaccac 480
cagtgtgcaa ccatccagct ggatttccag tngcccatta natttaatct tacttatgta 540
agccatgatg gtgatgatna gaaaaggcca gtgattgttc attgagccat cttgggatca 600
gtggnaagaa tgattgctat gctnacanga aaactattgg nggcaaatgg gccttttngc 660
tgtccctttg ncaggtaatg gtagttccag tnggacccaa ctgtgatgaa tttcccaaaa 720
ngacnacacc attncacgat 740

<210> 4806
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 4806
gncnctttca acttcgcccc ttttnaaacc cgttgttcaa atcctcgttt caancccntc 60
tgcaggatcc catcgattcg aancngcacg agggggnnnn ncgtggcnna ttgcgngcag 120
taccccttcna gcncngngna aagtgcagnc anncgtaaca catgcggcan acngcannga 180
gcanaatgnt aatgnccact tcttgantca tnccagaact cccttaagcc cacaagtttg 240
tnnngngnna ggtcaantct aggaacncng ccgngnaacn ggtntctcaa tnnagncatc 300
cttanttnct gcatanacan gagngttctt aaaacnnctc cngtaaagca agncatntct 360
ganntncctg aggatcattg ctcccgnata cngntgntgg ggtgagcctt caggnagang 420
ggaacagaat nnngtactag ggtcganagt caananacta aggcncttna ncaacatctc 480
agagcanann atttgnggag cccntggaac gntactgggn aatttantca gtgngcattt 540
ntnaagactg ggnccagggn tggantnatc tnttggcgan gggnncntag ngcctcanca 600
caacactgng cnagcccngg acttagnaaa cccctgcana aactggnnna annggcctnt 660
taaaantncc ccanangtnn accccnnaag aagcncggna agccccnaaa ctnccaaacc 720
aaccnctntc tttcctcnnc naantnnaca ncntgggggt ntgcnttggt nnnaaatngn 780
nccnanaant gcaccagntc nacnntagtc nnggggnacg gnnc 824

<210> 4807
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(745)
<223> n = A,T,C or G

<400> 4807
tntagataca gctcttgttc tttttgcagg atccctcgat tcgaattcgg cacgagattc 60
ctttcatggt acagtattta ccccaagtca tgattaaata tctgtttata tatttcttta 120
ttggattatt tgtttatttt tctctctcta gactgcaagc tccttgagca gaccatgttt 180
attttgtcta ccacaggtgc tcaataaata tttttgacta tttattacat gagaaggttt 240
ccatgcaaac acccattgaa tacgattgaa cttgaaccct aagagatggg ctgtgacctt 300
tgttgccctc aaactaatca aaggggagtg atattcacca tccagaatct agaataactt 360
anaccttgtg ggccaggagc tagctaccca tatgataata caagagctct cagagaaatc 420
atggaagttt tgagcaatct ctctctccct ttgctaattt acttttcaaa actgaagtat 480
aatgggaata acttccccac ctctcaaatg tcagcatgct ctgaaatttc atgttctctc 540
aggcgagccg attcatgttt tccattccac cctcttctac tgggctctct atgccctttc 600

tacagtctcg nttnttttac cctgggccct tttnccttg gggctcttga ttgaaaaaat 660
tgctgaactg tagctttngg aagtttaanc ttttgagaac ccgtagantg atttcagttc 720
ttaggaaaaa taaaancccg ttgnn 745

<210> 4808
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

<400> 4808
tnnnnncttna aatnganagc tacttgttct ttttgcagga tcccatcgat tcgcttttta 60
acaatctggg gctgtgttgc ttctatgccc agcagtatga tatgactctg acctcatttg 120
aacgtgccct ttctttggct gaaaatgaag aagaggcagc tgatgtctgg tacaacttgg 180
gacatgtagc tgtggagata caaatttggc ccatcagtgc ttcaggctgg ctctggtcaa 240
caacaacaac cacgccgagg cctacaacaa cctggctgtg ctggagatgc ggaagggcca 300
cgttgaacag gcaagggcac tattacaaac tgcatcatca ttagcacccc atatgtatga 360
accgcatttt aattttgcaa caatctctga taagattgga gatctgcaga gaagctatgt 420
tgctgcgcag aagtctgaag cagcatttcc agaccatgtg gacacacaac atttaattaa 480
acaattaagg cagcattttg ctatgctctg attgttcctt agaccacata tgttcttatg 540
aagcagcatt atgcaagggg aaaaaagcac tatgtctgtg tatgtatgta tatagtgtaa 600
tacgtatatt ttaacaaacc tgtccttgat attaagttaa ngtgacacat aagggtgaca 660
cagaatgtgt aatgcaaatt tcatagtaat agtaacttta taaaataata tta 713

<210> 4809
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 4809
gnnggnnnnn nnnttgcnaa tgctaggcta cttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgaggtggag ctcacctatt tggaatatgg ggcatttgtt ttttccactg 120
caatgatttc agtctggttt catcatgttg gaattcgatc acaccatttt caaacaatgt 180
taacatagtc cagcttttgt ttttctcatc tcttctgaga ggagactcac tgtttctgtc 240
tgaggaagct catacctcg gcaaaacatc aggacaaata aagagaaatg ggggtacgca 300
ttcccaacag aagcagtgtg ttatttgttt taaaactctg aacagagatc ttggaaatct 360
ttcaaaaaga ccattgaatt cttcattggc tgagaacgac gttttaaaat gtcttaaata 420
aggctttgtt tgcattgttt gagttcaagg ggccttatta ttgaatggaa ttgcacaagc 480
ctttctttgt gcaatcaaac cattgntatt ggtagttctg taaaggaaac tgtggaatcg 540
aattggcagt ggagtcataa atctatttac tgagtgtggc ttccaagaaa atgttgcaat 600
tcaaaatgcc taaagtctgt gatttattng gagatttggg agattcttaa ataatatttt 660
ttaaaaaact tccatgccaa cnttcttggn ttaaatggtt tggcaacctn ccccttgatn 720
aaaaaaatta aaaccaggcc caaatggtnc tcaaatttaa aatct 765

<210> 4810
<211> 800
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(800)
<223> n = A,T,C or G

<400> 4810
aananggccn ggcnncnngg nnnngccnnc gnaagccctt tgnangnaac ccctctggga 60
angcccccan cggcggancc cngcgccgng gnacncggca cgnggcagac nanacnanag 120
gttgacgngc cnttttcgan caggngacgc acnacncngg cnggggganc cccangccgg 180
gcagnncggc cgggggcccg gccacgaaga acgcgggccn gggcgccncg accnnggccg 240
cagataccan caacgggcag ggggcgnnct nnnggcccag caagaagggc gaaaangagg 300
ccgacggntg ccnggcgcgg caccacgant ggcacccnng ancggggaca cgcgagagag 360
cangtggggg ccgcgacaca ggggagacgg cggagccgng ggacangggg ngagaaccac 420
agncncnnag cncgccagcg ccggnaacag ggcnggnctc cangcccgna ggcnncgacn 480
cgngcaaaac ngcnggccna ccggncncca cantgaaaga cnggaggaga acgggganng 540
aangacnggg ngcangaggg ntgagnnggc caacanggng cnaacaaang nnccacnacg 600
cccgngngga nggcagngnc agcggnggag aaggaggacc ncaaaggcga cggngcaggg 660
acgcacnggg naaaaccccc aanaggcang gaggggacnn ggcgnaaggg ccggggaggn 720
nngnaagggg ggcccggnng ccngggcccc nngnacccnn aaggcccncn ngggggggca 780
aananngccc nnnngaacna 800

<210> 4811
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4811
ngttgatcaa gctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgagcac 60
agacccagaa cctgctatgc ggaacaaggc tgatcagcaa cttgtggaaa tagacaaaaa 120
atatgctgga ttcattcata tgaaagcagt ggctggtatg aagatgtctt accaggtaca 180
acaggcaatc aacacatgcc taaaagatcc tgtaaggggt ttcagacaag acgagtcctc 240
tagcgctttg tgttcacacc tttactccat gatccgtgga aaccgccaac acagacgagc 300
ctttcttatt tctttactca acctctttga tgacacagca aaaacagacg tgactatgct 360
cttgtatata gcagacaatc tagcctgttt tccataccag acacaggaag agccgttgtt 420
tataatgcat catatagaca ttacactctc agtttctggt agtaacctac tgcagtcatt 480
caaggagtct atggtaaagg acaaaaggaa agagagaaaa tcatcaccta gtaaggaaaa 540
tgagtcaagc gacagtgaag aagaagtttc caggcctcgg aagtcacgga aacgtgtaga 600
ttcagattca gattcagatt cagaagacga tataaattca gtgatgaaat gttgccagaa 660
aattcagctc ctttaatcga atttgcaaat gtgtccaagg tattttatta cttctcatgt 720
taaaacaaca tttgaagaat c 741

<210> 4812
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)

<223> n = A,T,C or G

<400> 4812
aaatntacag tttcnngacc nttgggcagg catcccatcg attcgaatnc ggcacgnagg 60
atntactggc cnattggaat cnnnaacctg anttagaaag gctcaacgag ancangctnt 120
cagggctgct aaggaagcaa aaaaggctaa gcaagcatct aaaaagactg caatggctgc 180
tgctaaggca cctacaaagg cagcacctac ncaaaanatt gtgaagcctg tgaaagtttc 240
aggtntcaat gtntactcan gatggaatga tnnangcatc tggctcacgn tgaagggctc 300
gcntnaccna tnacactgtc gtcctgcanc acanncncag catgnntgtn ctntgcttca 360
aagnctgana anctcttcat ntcnatttgn ntnacacnct gcntgacctn gccctctnat 420
acnacntgtt tctaacccgn acntnttccn tctatnntnt tntcctngcn aangnncata 480
tgngccnagn cngcncgngc ctcacatctc gtgctcntgg cnncttntgc tgcctgaaac 540
tcccttgnct tacgtntgtc tcntngggta ngccctntcn ctntttcnag acttggntcn 600
aangtgtaca acatntantg tnnangcctt tctnnaggat canctaantg nntggacacn 660
attantaagn cttnctntta antacttnnn attcaattng ctccttcata cattcntgnt 720
aaattgttcc ctanctggnn nagcaattan atngcattnt tantagtnnn gnntcccntn 780
tntgnttaat gcctcnctta tngggcggtn ngggtcg 817

<210> 4813
<211> 1359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1359)
<223> n = A,T,C or G

<400> 4813
ttngnnaaaa ntcnnctana atcnactttn tggnnatact tcggtcntat anctaganga 60
naaggggnat cccccantcn gnatctcggn acntnntang ctaatcatna gctatnnnat 120
tntttacnca tgnattctac tannnntcat ntataataac nncctaaatn antcnnaata 180
nnaagnntnc tnnggganat antctnnnna tnntngantc nannnnnannt atntcaatta 240
ncnccataac taanatanta tntatntnna tnttanttnt actantnnat annacttann 300
nantactnnn natacnanna tatannanan acnacnnnnt tnttnntntt tctntaaatc 360
aannnnnntc ntatattact ttncnnattn tnnatnatnn tnnatnnnat ananncnnnt 420
tattntcnnn natattcnnt atttnnanna taatcnctaa tcnaatanna tnataacnnn 480
cctatcatac aataagnaat acnantcctn nnnnncnnnc tanctatctt nnttcnnnnt 540
natanntttt ntgatnncnn atcantntna atacctntat actnatatnt tatcatntnn 600
annntnannn caantatatt natnanacnc aaactactcn actntntcna nttaancaaa 660
nanntantcc atatntctnc annncnntga ntattanana gatctntnac tntatancca 720
nannnnattg nncanatana tatcantact acatataant ctacnntnac tnntaactna 780
naannnnact atnactcgat tntctatnca cttatnncan nactactacn cataacanca 840
gtntntcgcn tacntatanc gagtnatctn nttttaaatn tatatnacat actcnanaat 900
ancnatcnat nattactana catatnatca actatatang tnnagtanaa atcatctttt 960
naattnntaa ctaacagnnt atnaactana tgnatatnaa tacatanant atncaaactc 1020
ntnnctcaca ncgttataaa ataaccntat aanattgntn tatacagnan atacttatna 1080
acttngnatt ntatatntcn cntctaanna taccattata atgcnatnac actatntaat 1140
actatanang ctanatcgtn nnatgnntct cncncttatn tacnactgcg antcannnnc 1200
ntnttatcgn tctcatncga ttntaccnan catanatata cccatattat antantntgt 1260
nannctntat atatntatat natactnann ttngnnatnt catatntnan tctcncagat 1320
nntacanntn tnatantatn aatgcctata ntacatncg 1359

<210> 4814
<211> 858
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 4814
cttgaattcc cctaatnaaa ccgtttggna agcccnatnn ctntaggnnn ncnntgcgnt 60
nacgatncgn cacgagggnn ccactgacca cnantatgtc gnacntttna caanggcctg 120
aactaacntn aanaatnnca aancatcnna acggancggc cctgcctnaa cngacgacgn 180
ntcccnttga gnnatagccn ngccccnact taactgagtn attaaccntg tatnntntnc 240
ttcngnnggc tcagaagctg atngantnan cncnatcacg accatcganc ttgctcnccn 300
nagancnncc cagtnaggnt nattnagnat tnnctnccnn nancntatna naatggccgc 360
tcccttgatc nancnatcng tgactctcat ntactggact catnccacct gcacccangc 420
gnatntaaan atccccatag ntcacnnnaa tnataanaca taaattagga tacanacctg 480
attganatgt tnnagctgaa caggntntac cnnctgnann ctcttgggng ttaactatgg 540
atatgaacnt cactttgaaa actgggannc nnaacgggga ttncttaaat nccttnttgc 600
tataggcnaa tanttnccgg gagaggntgg agtatcnngg atgaancaat tcancttac 660
tgaanaaagt gggcncggnc tngaatccat agggnaaaac canttgttaa nattatnggg 720
ttccaacgna annectgagn taacnttcca aanggnttgn aagantttgg gaaggcntga 780
atgggancaa ngggggctcc cnatccaaan aaattgtcaa ntttcaagtn cctnggccct 840
ttntnaaacn ntngaant 858

<210> 4815
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 4815
tgnnnttttg nttcnaatgc nngctcttgt tctttttgca ggatcccatc gattcgcgca 60
aacttttcan tctctctaaa gaagatgatg tccgccagta tgttgtaaga aagcccttaa 120
ataaagaagg taagaaacct aggaccaaag cacccaagat tcagcgtctt gttactccac 180
gtgtcctgca gcacaaacgg cggcgtattg ctctgaagaa gcagcgtacc aagaaaaata 240
aagaagaggc tgcagaatat gctaaacttt tggccaagag aatgaaggag gctaaggaga 300
agcgccagga acaaattgcg aagagacgca gactttcctc tctgcgagct tctacttcta 360
agtctgaatc cagtcagaaa taagattttt tgagtaacaa ataaataaga tcagactctg 420
aaaaaaaaaa aaaaaagcct ctagaactat agtgagtcgt attacgtaga tccagacatg 480
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt 540
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacaa 600
gttaacaaca acaattgcat tcattttatg tttcangttc angggggaggt gtgggangtt 660
ttttaattcg nggccgcgcg ccaatgcatt gggcccggac ccacttttgg tccntt 716

<210> 4816
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)

<223> n = A,T,C or G

<400> 4816
naancnatag ttcntgtnct ttttgcagga tccctcgatt cgantgcgnc tnaagnancn 60
gcncaggnct annctcaccc cattactggc tgntgttcta tgnaggtctn atganggnan 120
ctgacnnaga ccgtgnnagt aacnttggac tctnctncan tgnactaaga ananacnaat 180
gtgggcnngc catntgcccn nctcgtntga ncacancnan nnaagagnct ccagcatggc 240
aattgcnatt cacccngaat gctgtncatg aagngaactn ngttcnngng acggcattcc 300
nacctgngcc natgcccatg acnaggantc nactggannt cnagaannnt gctnntgngc 360
ctcntnaang gcnnntgtat ngctcaccat ggagccctng nggncnttgg acntnannta 420
ctatgacagg ccanancact gactgaccan cntngatgac ggctcntgtn tacctatgaa 480
ttganntgca tnananctng agngatcaaa gttacnannt ggtacacctc tnnctcagng 540
atttctcagg tnnctcgatn tcaannctta atatntacan ngctaattgc acttagaccc 600
tgncacgttc tngatgtnan acntccttga cnnnatngtn acatntttnt tcatgnctta 660
aaagtnaatt ggtngcanag tttctttcna tnccggatgc tctgctntta cncaangata 720
cgngattnaa tgtnaangnt cgtcaggaag nntttantga acttnct 767

<210> 4817
<211> 1154
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1154)
<223> n = A,T,C or G

<400> 4817
nggggggaggg ntgaggtgta aannnnctcn tanntattta ccaagcctta ctntgggttt 60
ctttttttgg gccaggggaa ttccccattc gnatttggng gaaatttcgg gcnaccgaaa 120
ggcagcaagg gtntntggtn ccacttgggg gttgccaaag gggcttaaan aatgncttcc 180
aagtttaaaa aggccagngc aaaaattaac cgtnggggtt cgngcttgga aaaaaaatac 240
cgtggtcaat tttcttaaag gttgtggatt tatttggcaa agnttnaaan aaatggaaat 300
tggatgnttt tccaacnaaa ntaaggggtt atttggtaaa tttcaagggg gtattagcca 360
caccaatttt taaatggtaa agcccnaana aaggatggtt ttgtnaccac gtttncnaaa 420
naaaaattag tnacctggta tccanntccc aagttggtcc cacttttcnc ttcctaaacc 480
tttccttggc cctaccgcca acnagcacca ctttananat tancnttgcc accgaatttn 540
cctngaagcc acngggaaaa gggaatacct tttacttgga ccctggtttc accgaaancc 600
gaccttnttt agaccctnaa tgaaccctta ttttcactng ggttnantaa naccttttgtc 660
ntttggggcc aggnccttnt ttcaaccctn ggaatgcttn aagggtngga aaactaggan 720
ttacccnaac ccttggcccc tttcantngn aantnnacat accccatttg gttngtgcta 780
cctttngggn attaccccat tnctttannc cccngnantn ccanggngtn ccatcantgg 840
ttcctangta aaatnncgga aactttctta annggnangg acttgaangg ncanagnang 900
aaatttngcg gtagaataac cctnnnaaan ngtcnnaatn tgnttaannt nctttttaacc 960
ttgaaaaatc ntagcncnca cttggttanc tntttgcccc ntttnncccn ncnnnannnt 1020
tggcactttc cgntattccc ctnanaaaat ttaccngctn gacatatntt nactcccngt 1080
gccnttnggt tnanaccacc acccntgnta gtntcccaaa cttcntncct catgctacnt 1140
ctacggggag gtct 1154

<210> 4818
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(766)
<223> n = A,T,C or G

<400> 4818
ttnnnnnnnn gtnntttaag ntacaggnta caannncctng gctactngtt ctttctgcag 60
gaanccatgc gcntngcaat gctgancnag ggctntnntc atgtatccac tggnttctgc 120
cncccaaant gctngactgc agnngtgtga tcatggctna ctgcnncctt gacctcctgg 180
gctagagcan ntngccttcc tangactctc aaantgctgg gattacaggt gtgagccana 240
ngngcgtggc ctctttttac nnnattgnna nnnnaattat tanggnannn tcnaaggcnn 300
aatgnattgn caccntcnnt gctcacctnn gacttgaccn gntganctca tgnnatcnna 360
nnaccncatn ctttcnanna gctntgacta cnagcagcac accancctan ccngctagtc 420
tgtatggcgg agcacacaca tggaatcaac tcgtgtgccc aactcaggta gaactacngt 480
actnaagnga tncnnccgtc tgnncncnna nggtgtcnng nttacacntt tgagcnattn 540
cacangggnn atntcntcnn tnntcaaatc ttacaccttg ggctangctt ggaagtgtaa 600
ngnatatanc tgangacncc ttagntttat gaagctncat tgagggtncc tgtaccaann 660
atggncgcat ccaactggnt tccatcttct taatcagaaa tntnacattg gngcagnnga 720
aaaaaaaaaa agaactcgag gccttanact atagtgagtc gtntng 766

<210> 4819
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(579)
<223> n = A,T,C or G

<400> 4819
ttaagccttt gntatctgtt ctttttgcag gatcccatcg attcgcgcaa actttncant 60
ctctctaaag aagatgatgt ccgccagtat gttgtaagaa agcccttaaa taaagaaggt 120
aacaaaccta ngaccaaagc acccangatt cagcgtnttg ttactncacg tgtcctgcan 180
cacanacggc ggnntnttgc tctgacaagc anngtccaag aanagtaacc ataaggctgc 240
agaatatgct agactcttgn cntcagaatg aangcngctt ggcgnagccc annaacacan 300
tgcgaagagc ctatgctgcn tctctgtagc nntctctaan tatgatcnnn nngaaatcat 360
nntatgannc caatgataan acagcttaag aacgnggaaa nccttaactt ccagnnatcg 420
ctatctcngn agatctntat tggcannnnc tgangnaaga tgttatctaa atgntgtcgt 480
tatgtcnctt actgatncag tacacncttn atcatttgta ngntgtgngt tggagtctaa 540
ttggcnncnc ttcttncctn acctcttagt cttatgtga 579

<210> 4820
<211> 1028
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1028)
<223> n = A,T,C or G

<400> 4820
cccccgccgn anaaactnnn cnnatnnang nnncnnaann caccnnncan cnnnanannn 60
gnacgnnnan ncncnnngca cnnnanacng canaggannt gncncncgga ttnnccntga 120
acctggaaac cgcntctanc aggagnccng cgattcgaat tcggcacgag agnncacagg 180
nnntgcgncg acnanngcta aangcnanaa cgggaannga gaagncgngg annnggngag 240
ncgatgacng gacacancnn atnngncaag nnggacgctt gnnnacgcag cnggaccnac 300

anggtgcaag angccntcga cnacatanaa nnaccanaaa aaacccnagg cacgnggcac 360
ntcncccccgg agnaangcan cncnnnggga nngccgacag ngctgagaaa nngcngnaan 420
ccaggaggtg gaanangnac gagcaccnga naggcgccat ngcnctncan nnnnngcann 480
nancagtgca ctntnnncac angaaacaac acnacagana gtcaagcacc nnaaaanctc 540
antacacnnc cacaaggagc gcnnntggac ccngctncta agncggangt nggnntaaga 600
cnatcgngan cccaccaann tccntggcca angnnaaaan angcnaaaan nggnccntgn 660
tcggcannnn gcnaantagc antgaaaaaa nccggnncca tnaaaaanca acgggnncaa 720
ncctnntnan ngngngnngc aanagngggg gcncaaanag naaacccnna ttgcacgcgn 780
aggtnnntaa ttagagggng gcanacggga cancacncgg accgnaanta nggcccncna 840
canaaactnn acccaaatcg cccagggaaa ncgnaaacgn gacttttnac agaacttgna 900
ancgnacgaa ccccncgann agtnacanaa ngcagnnaga naaaaaantg ngtcngcncn 960
nnangnngnc tcatagggga cnnaaanaac atagggganac acaccgngag cnaanaanat 1020
taagggcg 1028

<210> 4821
<211> 832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(832)
<223> n = A,T,C or G

<400> 4821
antggnaann ngggcaanaa nncccttaag aannactgaa nggaaaagcc cgnagcgnnt 60
gggnggaann gggacgngag gggnnggang agggggtaca gaccggnttt tggncgncgn 120
nttncganga ncganggngg ggnannntngg gggggnangn naaggggcgg cagngggana 180
aagatgcggn ggcgaggcca ngaaaggang gaagggaaga ngggaannaa gncaggngnc 240
ccnngggcaa caaggaggnn aggggnacag gnagnaaagn ngnggaagng gaccggagca 300
gncnaaacng ggagngnaan aggngggaag naanggagng ngcanaagnn gagagagagn 360
acncagngna gaaacaggcn nnagagaagc agcnggngna aaaacnggcn ggnannagng 420
anagggagag gaggnannaa aggcangnga aaagaaggan ggcagangga aggannggna 480
anaagcccan gagagnnggn nnacnagaga anggggcaaa ggcgacaggn gggaaaggna 540
aaggganggn agaannggnag ggggcnngaa gnaacgagac gnngganngg ggaggnanaa 600
nggnnaanna gagggngaag gaaaggacaa gnggnngana gnggnnagac gnangcngaa 660
naggagggga ggagnaacng agnagangga ggnangngga agggnggacn gggnncngga 720
gnnggaaggn ggngannnaa ggnnnggggan angggggnnnn aaaggggang nannaannnn 780
gnaagaggga ngggaggnna agggnggggа gagaggnngg agggcgaaaa cc 832

<210> 4822
<211> 1036
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1036)
<223> n = A,T,C or G

<400> 4822
anngacngnn naaacnnnnn nancnnnnnn naaannnnng aaanngaagg naacannaan 60
nngnnnnncg aaaaannnga anacaacnnn cannnnnann acaccaggng nanaagnang 120
naaaggaacg cgcncncnan nnncnnncgn ngngannacg aaancggnna ngacgntgaa 180
anntagaatg cacagannna nannancnna ntagnaaaca tcnggnnncn nnannangcg 240
acatntntnn ccgnttggaa acgcttggca atctccgacg canagagaga gagaagagct 300

nncaanancn nagatagnna gnancgnana natanangnn gtcannnnna naggnnngaa 360
acncnncnct ctanntnnca gctnnnggct cacagnggan agncaacgan ggcagaagga 420
acatgagcct gatgaagaga cnggaaangg agcacctgnt cctgnacctn caaagagaac 480
agnccaaaga aatacaccca agcanggang ctcagagatn aatancagag agaggactnc 540
cancctnaag gcangnatna nganaaggca aaanncaaag gtaaaggaca tgagagctga 600
agacttgang angctaatca gacacangga gcactgggca cataggctan nccctaaact 660
gnagntngag ganattatcg ncagagcaga ataccnggga agtaaaaagg aagnncagac 720
ctgnnnaaaa cgaantcgan tagaaccnnc cctanatata catgaagaat nntgntagca 780
natnatgatg aangctgcng gagaanaaan gaaacactga aagtnacnnn antacngaat 840
tnagaacccn nnntggacaa anntatactg anaagngaga atggctngcn nncangagnn 900
anagttgaan ccctaacagn acgagcaacc ancagagaaa nngnnnaana aantnaacaa 960
cntgggcntn ggaaaagaaa gcaaggcaaa gcccgcagga nnaaanaagt nnatgaaccc 1020
tagnngaaaa tggang 1036

<210> 4823
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 4823
tnaatncttg ctctcgcctc tngcaggatc cctcgattcg aattcggcac gaggctacac 60
tgtgggggga agatgctgat aaatttgatg gttctagaca gcccgtgttg gctatcaaag 120
gagcccgagt ctctgatttc ggtggacgga gcctctccgt gctgtcttca agcactatca 180
ttgcnaatcc tgacatccca gaggcctata agcttcgtgg atggtttgac gcagaaggac 240
aagccttaga tggtgtttcc atctctgatc taaagagcgg cggagtcgga gggagtaaca 300
ccaactggaa aaccttgtat gaggtcaaat ccgagaacct gngccaaggc gacaagccgg 360
actactttag ttctgtggcc acagtggtgt atcttcgcaa agagaactgc atgtaccaag 420
cctgcccgac tcatgactgc aataagaaag tgattgatca acngaatgga tngtaccgct 480
tgtgagaagt gcgacaccga atttcccaat tttcaagtac ccgnntgatc ctgtcagnaa 540
atattgcana ttttnaagna gaatcantgg gtgacttgtt ttccaggagt ctgctgaanc 600
tatccttgga ccaaaatgct gcttatcttg nggaattana ngacaagaat gaacngcctt 660
tgnagaagtt ttnccntaat gccaacttgc gaatctttca ttattagaag c 711

<210> 4824
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 4824
ncgncccntn tttaaanccg gcaanctttg gaancctttg gaaagccccg nnncgaannc 60
ggnacgaggc ngggnntttc ctgntacang caaaancngc ttcgagggac cacatttttt 120
cccccgnaac ccgccgccng ggaggggaag annntnaacc tgggcccggc acagggtanc 180
ctgnganann ctgtgaccgg aaaggcgccc nacccggant nagtggctcc aantntcaat 240
gcancccCac acccnnagtt gttttnatcc tgagaaaaaa aagggaggcn gaattattna 300
aanttaaang agganancCc ntcntggaan ggcngcngac ccttcctgca gaaatgggga 360
gcacntgagg acacaggtgg gtggaggccc nntgtgcgnn gctggtcgga ttcnggcagc 420

cctccgtcnc ttnttataaa acnttgggng agaagantat attganaatg tcagtgaaac 480
aagccnacat tggnaatgga ggcncagann acnccacaag gagcccttct gcntataaaa 540
ncnagangca aaaaaccttt ttnaattnnt gtnaatnaaa aggaaagact tgntaggctc 600
anatcnnanc tgggngtggg nnnacggggg agaacactgc naacagggan aaanggnngn 660
gcacacaana aangagtggn cgaaatttgn ccangtggac ccagccgggg aaaaaacnna 720
tanaaaaaaa ctcttcatag ancctttta aaaaaaaaaa aaaaaaaaaa cttcgngccn 780
cagaaaacca annggaggng acctatnccn nnagaanccg 820

<210> 4825
<211> 895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(895)
<223> n = A,T,C or G

<400> 4825
ggnnnngant gnntttnann ccttgcaaac gnntcgctga gggancgncc gaatncggcn 60
cgcggaggaa ntnanatngt ncatggnata nncngtnntt tgtntgntat acagtgcntg 120
nnngnagngg ggntccgtac tgctagnnan gaacgtgcat tcacagggtt ataaanataa 180
cgatgttagc accaanccnc ttcnaccctn caatagggtg tnagatgcnn nanatggang 240
ntgcctattt aangnntntn nnntgcncna tatnngaatt ncngaggacn acttannncc 300
gaaanntnta cttnccgnac cgnanggcgg aaagngntta tttttgatga ctncgtgggt 360
ccgcncngag agctcctgct ttgcctgcgc ctcccgttct aaactgtnac cctttagttn 420
tngannaccn nncccgnctt gggaacggtc tgacnntcnc tcgaaaanag gaagtggctn 480
aanggcnggc ttcttgacnc gngnatcgga tcctnnggcc cnnccccntt ccgttncaan 540
cttgcttntg caacaagcga tngntnacgc ttttnactga nntcttttat ntcgccattt 600
nggattcccg ngttccntgn aacnaaaang nccnggcgga ngtcaccnat aaaacctgtt 660
ccccttgctt acaanaagca nnganggtgc ccgtcngngc cctggtcttg nanaacangg 720
ntgttgggga ancntaaact nncccacatt tgatggaana cncattttca tnnanccatt 780
nttaaaaacn ggggntgngn gcaacgccaa nncctactcc ncactatcca aagntcccan 840
ntattggcgg ggcattcttc attggaaatt ntggatngaa ngaaaccctt ctcct 895

<210> 4826
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4826
tttcaaatcg cttggctact cgttctttct gcaggatccc atcgattcga attcggcacg 60
aggcctgtna ttccancatn cncngncacn aatnnaanan ggagncctta ggntcttaat 120
gtgaacaggc agnngattan gctgggcact caggnagaan ntcgcgtgtn tcantnttna 180
ggcatgtttc atgattcaaa ntactctcca nccccttgctc tcaatgcctt gcatgagcct 240
tgnatgattg nattaggact accnanatta ncncnngtna tcnccttgn tnaaanngaa 300
ntcacnntgt atgtnacann atnctaatac ntcaanaggn acnngtattn tctgacnaaa 360
nagctaggca nctnaanata nccanattat atcnnnatcn ntngncnctt nattantaca 420
tacgnanacc tngtaaggna tntttnncan tggacattgc tacagatcag ntgacgatta 480
ngtancctnc ataantaatn nanngcattg tacnttnacn gatcgttctn ccnctgncat 540
gntncngttc ctnagtgana canagctcnt cgtattctgg ncgnntnncc gntatcngtt 600

nntaatgcan atatccctat gcaggtntcc catatnnntn tnatnatgca tatagccttt 660
tgaangctcc ccatntnata tgcncatatt ccaccatatg aaatnttncc tnnncgnact 720
ttggncacat gtaagncttg gtnacccaan ntaatcatc 759

<210> 4827
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 4827
gaaancccct ttgttactnn gtnctttttg caggatccct cgattcgaat tcggcacgag 60
ggggattcat aattccagac aggtagagaa cggttttatt tatgtagaga cagagtctcg 120
ctctgtcgcc cagctgaggc ggggagaatc actttgacct gggaggtgga ggttgcgctg 180
agctgagatc attacactgc actccacctg ggcaacagag tgagactatg tctcaaaaaa 240
aaaaaannaa aaaaaaaact cgagcctcta gaactatagt gagtcgtatt acgtagatcc 300
agacatgata agatcattga tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa 360
tgctttattt gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat 420
aaacaagtta acaacaacaa ttgcattcat tttatgtttc aggttcaggg ggaggtgtgg 480
gaggtttttt aattcgcggc cgcggcgcca atgcattggg cccggaccca gcttttggtc 540
cctttantga gggttaattg cncgcttggc gtaatcatgg catagctggt tcctgtgtga 600
aattgttatc cgtcacaatt ncacacacat acgagccggg acataaagtg taaagcctgg 660
ggtgcctaat gagtgagcta ctcacattaa ttgcgttgcg ctnctggccg ctttccaatc 720
ggnaacctgt cgngccactt gcnttatgaa tcggccacnc ccggggn 767

<210> 4828
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4828
ttctaatttn aatccttnaa atnggttctt tntgcaggat cccatcgatt cgaattcggc 60
acgagagaac acaggtgtcg tgaaaactac ccctaaaagc caaaatggga aaggaaaaga 120
ctcatatcaa cattgtcgtc attggacacg tagattcggg caagtccacc actactggcc 180
atctgatcta taaatgcggt ggcatcgaca aaagaaccat tgaaaaattt gagaaggagg 240
ctgctgagat gggaaagggc tccttcaagt atgcctgggt cttggataaa ctgaaagctg 300
agcgtgaacg tggtatcacc attgatatct ccttgtggaa atttgagacc agcaagtact 360
atgtgactat cattgatgcc ccaggacaca gagactttat caaaaacatg attacaggga 420
catctcaggc tgactgtgct gtcctgattg ttgctgctgg tgttggtgaa tttgaagctg 480
gtatctccaa gaatgggcag acccgagagc atgcccttct ggcttacaca ctgggtgtga 540
aacaactaat tgtcggtgtt aacaaaatgg attccactga gccaccctac agccagaaga 600
gatatgagga aattgttaag gaagtcagca cttacattaa gaaaattggc tacaaccccg 660
acacagtanc atttgtgcca atttctggtt tggaatggtg acaacatgct ggagccaat 719

<210> 4829
<211> 887
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4829
nntttaaaac cttnntttta acccttttaa aacctttcaa ctaccgggct ttttgcaaga 60
ncccatcgat ttcgaattcc gcacgaagga aaacatggca cttnttnttg ncatncntaa 120
cgggccctgg ccgctnaccc gtggaaagta caggtcctga caactggggt ncctgatggg 180
cctgggtgac attatctcac aacaacttgg tggagaggcg gggtctgnag gaacaccang 240
agaggcccgg actctgacca tggtgtccct nggctntggc tttgatggcc ctgtggtagg 300
angctggaca anggtttgat cngancatnc ctgncaccac caaantggga tgccctgaag 360
aaaatgttta tggatcangg gggctttgnc cccgtgtttt ctangctgcn ttntnccact 420
nggtatgggg cacttaatgg aatggntaac ncagnacaaa nttgggccca aactacatgc 480
gggattatac tagntgccct tatcacccac tactntntta tggncntgct gtgccagntn 540
nccaactttt annntgntgc ccctttnatt ncaaannтgg ancgnngncc aaantgaanc 600
nttnttttтt nttgaacctt cctacctntc cctgggaang gcncaatatn gnttatnaaa 660
nccttgccct cannttcnan tngtnttccc aacctttтnt aggggnntac agantttтgn 720
nccccatggg aancnaggac aataacaaan ctccttctaa aantgggggg antaaccccc 780
ntttctacna gnagtttggg ttttтcccgg tgncaaanan tttantaaag gaatttggca 840
ccccttggaa gggncccent tttanttctt aaaaaangtc cacctgc 887

<210> 4830
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

<400> 4830
ttnctaatnc tngctatcgn agtnntntaa gnncanttct aatacttggc ancncgatnt 60
cgcnnnanca tncnatacag tntncntctg nncgaggcnc ccangtncat ggctnnatnn 120
anggccatcc atatgccagc tgggggccag gcnacantgg ccatattgnc tgnagcnnga 180
atggtgccca cctacncgaa ttgaanggct aagagtccca gatagctagg ccagagctgn 240
aagcatacag taaggggaan agctgctccc acagganagg gatagattcc atctcactgc 300
gcancctggg aggaggcang gatcctgnca cgctaagcct naggcaccan cctccctgtg 360
ctcgacatgc aaagtcatga ctcctncttg ntgagnactg agctaccttn tactgctcca 420
aancnnacta acagctctcc aanccccttgg ggtgactcga gatccnanga nctgtngact 480
taantganga tantcagtcc tgttctgccn nggcaggcca nattcctncc tccaanaanc 540
nnnatctttc naaaccctga anntgtancc tntctnattt acccagctan tttaanncca 600
aatnttanaa anntanncna ataccnttac tccnaaacca cttttgnctt cnttacctga 660
tannngnngn nctatactca cnntttagcc ntaaanngaa nccttnctnn annagcnnat 720
ttgtcntttn ancttggnaa actttctatn tanaatnacc atccaaannt tnnggnannt 780
cnttaatntt ttanccnanc tacaatnnaa canctntaac ctnantcctg taantcnnac 840
aaaattnntc nntancct 858

<210> 4831
<211> 1786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1786)
<223> n = A,T,C or G

<400> 4831
cgnccnccnc cnncccccnnc ggnnncngcn nnnacnnncc ncnncgngcn acgncnncnc 60
naccnnnnna ngagcncnng ncgnnannnc ncgccnacna ngggntcgng ncagcngnnn 120
ccangncnnn cnncngnnng cncnggnann gcngnancnn nnannnncna cnnangctac 180
nncagcnanc nnncnngcng anagnncncn nnnagcgcna ncncgcncnc nccngcnanc 240
ccacacnnac gnncanncgg gncnngngna cnggnncccc nancntnnnt cncnttttgg 300
ccaacncngc ctgggcancn acccnnnntc gccncagnaa cgngngnang ggnncgnnac 360
nncnnccgnc cccanngncc cntntncncc ngnagnntcn nnnncananc cncagcanan 420
cnccanancn cgccccnggg ggnnnncgna ccncccnnca cccgcgnagn gcncncncan 480
nncgngncgc ctcccncncn cncgnacccc ncnnnnngnc ccnccngccn gcccncnnna 540
nnngccnann ccnnncnccc nanacacnnc ngncgagncc cnnnnnncnn cncnccncnn 600
ccccnnngnc agacnactcc nncnncnncc agncncccnc nacccgccnn ngnnnnctcc 660
nnncgcangc annncnccng cccnnccccc cggnnctggc acacgacncn cncaccgcnn 720
cnncccccnnn nacnacgnng cncncnagcn nncacnnanc anncanngac ncngacacac 780
cngcngaggc aacacgcncn caccnnnaca cnccantnac gcatccggnn catcacgcnc 840
gcnnganccn gacngagaca acncagcnnn nncncnagnn nacacgcngg cnacagactc 900
tcncacgnna cgccannnnc gcacctccnc nnnacaccna ngcacccgng ananccncgc 960
acnngngnng ctcanacgca ncangcgcgn cnangtcncn ngacgcnncg nctcnacncc 1020
gcgngncncc aacgncgcgc cancccngac gncgncacna cngacgncac nnnncacaga 1080
naggacncac tngngcgcan nnccncncgn cgncancncc cgacgcnagt atanacnatg 1140
cnngnncagc acacannnnn cnanaccngc cgngccncac gctctcgngc agncacacgc 1200
ggncgcctag agccnngcat cntagagcac gcgcannnnt ccngccacat ngcacancnn 1260
canacnngcc cncnncnnnc agacccncnn nccanctccn ganaccncga ctcacaccnc 1320
nctnncgcgc aanagnnnca ggnanacgct cngctctnca ctgnganacc gcangacgnc 1380
ccttncnact canacncncn gncacagnca cnctncnccg nacacncnct nncacatccg 1440
ngnnatcncn ncnannnacg nacannncgc gcaccngcac gcacaccann gnncngacga 1500
cccncncgnt canacctgcg ancngctcat gcgccgtntc tacacnccgn cngtncnacn 1560
cncgaccgnc acagnncnnc gctncgntnn cnncgccncc gcgcgntccc ancnncaggc 1620
nnctacnnnc cagntatccn gngtnnngnn caacgcncag cgntctcnnc acanncccga 1680
ngcgnngncn ntncnnnnga gagcacccag ntanncaacc nnacnccaga naactcnacc 1740
nactcgntca cagnctcgct gtcnaccngg atacaccgac cccacc 1786

<210> 4832
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 4832
tttatgncnt agtgaactct ttgggaagca nntcccatcg attcgctcag attaaggggt 60
ttgaaaaaca aaccgaaaaa gatgggcntn attnagcctt acttgattga cgttgactta 120
atcagagggt caacatttgc caaagcaaaa cctgaaattc catggacatc tctgactcgg 180
aaggggcttg ttcgagttgt atttttcca ttgttcagca attggtggat tcaggttacc 240
tctttaagaa tctttgtttg gctgttacta ctttatttca tgcaagttat agcaattgtc 300
ttatatttga tgatgcctat tgtgaacata agtgaagtac ttggaccctt gtgccttatg 360
ctactcatgg gaactgtcca ctgtcaaatt gtgtctactc agataacaag accatcagga 420
aacaatggaa atcgaagaag aagagtttcg ctcttgttgc ccaggctgga gtgcaatggc 480

gcaatctcgg ctcactgcaa cccgatacct cctgagttca agcgattctc ctgcctcagc 540
ctctcaagta gctgggatta cctgcgtatg ccaccacacc cagctaattt tttttttga 600
atttagtaga gatggggatt tcacccatgt taatcangct gatctagaac tnctggacct 660
caggtgatcc anccggcttg ggcttccaaa aggactggga ttaccagcgt gagccactgn 720
acccaaaccg nctaaacctt ttaaaaaagg attatttgg 759

<210> 4833
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4833
ccaacgcngg ctacttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggat 60
tagtactagt tctatctgga aaaagcccgg gttggaagaa gctgtggaga gtgcgtgtgc 120
aatgcgagac tcatttcttg gaagcatccc tggcaaaaat gcagctgagt acaaggttat 180
cactgtgata gaacctggac tgctttttga gataatagag atgctgcagt ctgaagagac 240
ttccagcacc tctcagttga atgaattaat gatggcttct gagtcaactt tactggctca 300
ggaaccacga gagatgactg cagatgtaat cgagcttaaa gggaaattcc tcatcaactt 360
agaaggtggt gatattcgtg aagagtcttc ctataaagta attgtcatgc cgactacgaa 420
agaaaaatgc ccccgttgtt ggaagtatac agcggagtct tcagatacac tgtgtcctcg 480
atgtgcagaa gttgtcagtg gaaaatagta ttaacagctc actcgagcaa gaaccctcct 540
gacagtactg gctagaagtt tggatggatt atttacaata taggaaagan agccangatt 600
taggtaatga gtggatgagt aaatggtgga ggatgggagt caaaatcaga attatnggaa 660
gaagtatttc ctgtaactat ngaaagantt atgtatatat acatgccana aatatatatg 720
tgtgtgtgtn tctgnggatg gatatatgta tatctcttcc tatatatatc cc 772

<210> 4834
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 4834
ggnncnnnnn tttttaactc ntgccctttg aannccttgg tacctcncnn ngganggggc 60
cctngttnna attcgctncn acccanngat gggccagngg gngaacttnc ttgagtatgt 120
cgccnttccg gnggncgttn nctnngttct acnnagaacn cttngagggc tgaaaataaa 180
tntggaagat nganacaccc tntgngggtc ctctctgaga caaatccatn tggtgggtaa 240
ttgnacanta aatnttttt gntcaaatnt nnaaaaaaaa aanangcctn tacaactctt 300
gtgagtcntn ttaccnccat ccnnacatga taatgataca tatgatgatg ttggncacaa 360
ccaacatcta gaagtgcgnt tnaaaaaaan gctntntttg cgnaanntnn gatnctnttg 420
nttnnttnga nnccnttgng cctgnataaa caagttaaca acgacanttc tttcattagg 480
ggagtcngna tnatggtggg ggccangnan gngttcntga atctngcntc gtctcctnca 540
ggncatntnc acnacacccg aantttgggc atnttntttt gncntntgaa cggnnnctng 600
gngttnatca aggatatnnn ntttcctgtg tgcaaaattt gtcccctcnc naattccacn 660
ctngcatgcc atcccggnat cattnaaggg taaaantcct ggggggnngc cnnatgcagt 720
nngcncaacc tcncatttgn atngctggtt ggancataan tggccctgct attttanttg 780
cgnggnanaa catnncntgg ggcctntngt gncatntaan atanattggg gcg 833

<210> 4835
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G

<400> 4835
tttattccat cagctcttgt cttttgcnga tccctcgatt cgaattcggc acgagattct 60
ccctaaatag taaatcccac tgtatacaaa actgttctct tgttctgcct tttaaaatgt 120
tcatgtagaa aattaatgaa ctatagggaa tagctctagg gagaacaaat gtgctttctg 180
taaaaaggca gaccagggga tgtaatgttt ttaatgtttc agaagcctaa ctttttacac 240
agtggttaca tttcacattt cactaatgtt gatatttggc tgatggttga gcagtttctg 300
aaatacacat ttagtgtatg gaaatacaag acagctaaag ggctgtttgg ttagcatctc 360
atcttgcatt ctgatcaatt ggcaagaaag ggagatttca aaattatatt tcttgatggn 420
atcttttcaa ttaatgtatc tgtaaaaagt ttctttgtaa atactatgtg ttctggtgtg 480
tcttaaaatt ncaaacaaaa tgatccctgc atttcctgaa gatgtttaaa cgtgagaagt 540
ctggtaggca aagcagtctg agaaagaaat aggaaatgcn gaaatagggt ttgtctgggt 600
gcatataatc tttgctcttt ttaagctctg tgactctgaa atatattttt gggttcttca 660
gtgtgtttgg acaagacact tgatatttct atcaaacaaa tgactttcat attgcaccaa 720
tctttgtaag accactcaaa taaaagcttt taaaangcaa aaaaaaaaaa aaa 773

<210> 4836
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(855)
<223> n = A,T,C or G

<400> 4836
gccnnttgan nccatcanct cttgttcttt ttgcaggatc ccatcgattc gaattcggca 60
cgaggggcnc aaannatntc ntgatgacaa ananctctgt atancaggtc antcncagtg 120
ttnanagtct cagttgcttg cttggggaac tngngtccct aatgngaata gnntgctnga 180
ttgctcnggc nctgntactg tgacagtgtt tttagacctg tgttnctaaa aaaaanatna 240
atgcnctgaa aagggtgttg ggagggtggt tcancataga aacanagatg ttanggtgtt 300
tagatttang gttggnaaca aggtcatctt tagtcaccnc actgggnagg cagcatttgc 360
tacattggcn nactaactnc cnttgctann nnntttcang antncaanna cntgtgnatc 420
ntagtatnnn agnntgaaat nantttccac cannagcggg cattgtttct atcacagcat 480
aggctatgtn aagcnaactc tannatgata aatgacaccc nntnttatct attngcatcg 540
acccccgtct ctacaagaaa gtnaccaaaa attttncccg ggcatgntgg tnggggcacc 600
ctgtnggtcc ccagctattt caaaaaaggc ttganggngg ggaggaatca cttggacccc 660
cgggggggggg tggagggttg canttgannc caaatcnacg cccactgcan ttcccgnctt 720
ggggtggaca caagngagac ccccatttta taaaaaaana atnaanacct cctttggnaa 780
cnngggggna aantctnttc tttttnanga anttttcntg ntnggacttt ggggttcctc 840
tatgactttc atntc 855

<210> 4837
<211> 932
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(932)
<223> n = A,T,C or G

<400> 4837
nnnnnngann nnanagannn nnnnnnngan nanntcctnt tnnnntagga nttgnaaatn 60
cctcgttcta aatncttggt aaacncctng ctnnanggtn cgngccactn tgtccggnnc 120
gagggtgggc ncacacncta atntcnctgg gtccatggta ntnccnatta ngcatgctgt 180
gttnntgcan atgatgtant acganatcca cggtgttngg ttaatgattt attcactcat 240
tagtcattcc acaaactagt ctngagcacc ngttatgnac ccancactgt gctggaatgc 300
tgaggagaca ggagtgaagt aaaaagacat ggntccngca ggaaacaggc aaggagagcc 360
ttgacttgac ggantctggc aatancgcca ggctggaatg caatggcgcg atctctcctc 420
actggancct acgnctncng ggntnaagca antctactgc ctcagnanct ggagtanctn 480
ggnactacag gcnngcgcta ccacncgcnn atgagaaaac ttnnngccac agagaggtga 540
aataagtgag atgcttncta acctaatgcg anaaccncgt gaaaagattt ttggcaacct 600
gaaaaatccc atnctnnnnt gaggattnta tngncaaccn gnaatcaant cttaggnaan 660
atgaatgccn nttcgggant aaattcnatt tttnntnatc tcccannaag gaaggaaaac 720
ntnnnaagcc tctangaatn atnnngnctt nctaacccng ngtantcaaa actnttnncn 780
aatctattgg naaacccgat ctagannttt ttnaatnacc ntnaaaatct nnaaaagaaa 840
gnncaatnag tatnttattc actcgaaaag tctccaaanc ncnntaaaag aactcnantg 900
gaccaaacta cncnttggng gaannttaan cc 932

<210> 4838
<211> 1358
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1358)
<223> n = A,T,C or G

<400> 4838
ttgnnggaac cccnnntttt tttnttaaaa aaaancccce cantttcccn aangggccct 60
taacctccng gttnttgtan tntnttttta ctgatnngaa angagcanaa cncncagatn 120
gntnantgta aantttncta tcncnccncn aangtanctt nctttgtatc caaccnnggt 180
ntagtcgtct cnnncntaga ncttaantat ataannnata aacacctacc gtgntatann 240
tntgtacann tannnncngc gcgnngngca ncnnangtca tatanaccnt gcgccanatn 300
cttctacana ctacanccnt atnanggntt nnataaagtt cttaataacg catcatnntg 360
ttcaacaact ggggtagcta tantgaacan tctnancacn naannatngn ttcncaaaag 420
ganaancatc tcnntatang antaccctnn ntttgnncaa tnatatnaaa tncnntganc 480
nancncncgt ntgnntnnaa gnnntgaatc tngncaatat gttggnnnnn gcntnntnnn 540
tttnanattn anaaaccttg ncntnatnat ncatgtggta tgtnaanacg tncnttaaaa 600
taggnnnaag acgnnccnat tgccnnacnt tatanaatnt cntnnnncca tnntgctcga 660
ttntgattac aaatattgnt gcngannggn anaatnacct cnatcttgat nccttnnaat 720
annnannnaa anaattnnnt nctttctnnn tcacacnaca ttccnacgta ccntnatnat 780
ctttgtnnna cgtcattgta cnaacaactt aatgtagctt tgnnanacnn aacaatntcc 840
tctctttgnn nnnanggnat gcacncattt ccnnttgnta ntaacctann tcngnnaata 900
ttgtaatagn cncttaacgc ntcnaantct cgggtaatcn nancaaaggt ttgtcacnaa 960
ttctnnnccg ttncnangcn taactntntn cntaanacat ngattgntta actcgaangn 1020
atatgancgc gancgcatgn ncncanancg tcacttcttg ggatacccnc gctctacttt 1080
anactcttta angncanang gttacganac tgcactngna ctgtangctt ngtttactct 1140
nccnccgnna anactcntcn atangatgnt tangcnccna cgcnannntn ncgnantcta 1200
tncgagcana ntnaacnnnc tccanatnaa naaaatngtn nntgtngnac anataannga 1260
cntatccttc tgtatattct cgacgcgaan anatggtacg tgagngnttt acntaangta 1320

ncanatntgn ggttnacact nnnntatncg agcctccg 1358

<210> 4839
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 4839
gnnntttnan atcagctact tgttcttttt gcaggatccc atcgattcgc tgaaatgtca 60
aacacggcca cctaggcagc atttacaanc aagagtccac tgcttnnttg atgtatatct 120
taagcgcccc cagtgaatga acagcatata actccacata aaaatcatta aatgtnattg 180
acttccagag caggcagttc tgtgtgtatg cctctggaga aggctggctg aattgnaatt 240
ggtctgtacc tnctgcctat catgtacatg angtnnttgg gcaaagagaa ctttccanaa 300
nataagtcca naaattatag atcatcanac naccaatgac atattgntga gatatctnca 360
agatctagaa tngncctggg tgtcaaggaa gtctntgggg tttttacaaa tattgataat 420
gcnctttta taaaatgcac tttttataaa aatgcatgct cacttgagac aacttgaaaa 480
acacactaga aaaggccggg cgtagtggct cacgcntgta atcccagcac tctgggaggc 540
cgngacggnt ggatcacgat gcangagatt gagaccatcc tggctnacat ggtgaaaccc 600
cgtntctact aaaaatncac naaaattagc anggtgttgg tgacgnggcg cctatagtcc 660
catctactna agaagcttga tgcangaaaa atggtgtgaa cccaggaaac gagctt 716

<210> 4840
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4840
angcagctct tgttctnctt tcaggaccct atcgattcga attcggcacg agccaagctg 60
taccagagtg cangaggcat gccaggagga atgcctgggg gatttcctgg tggtggagct 120
cctccctctg gtggngcttc ctcagggccc accattgaag aggttgatta anccaaccaa 180
gtgtngatgt ancattgntc cacacattta aaacatttga aggacctaaa ttcgtagcaa 240
attctgnggc agttntaaaa agttaagctg ctatagtaag ttactgggca ttctcaatac 300
tngaatatgg aacatatgca caggggaagg aaataacatt gcactttata aacactgtat 360
tgtaagtgga aaatgcaatg tcttaaatna aactatttaa aattggcacc ataaaaaaaa 420
ataaaagaaa actcnngcct ctagaactat agtgagtcgt attacgtaga tccanacatg 480
ataagataca ttgatgagtt tggacaaacc acanctagaa tgcnnngaaa aaaatgcttt 540
atttgtgaaa tttgagatgc tattgcttta tttgtgccat tatgagctgc aataaacaag 600
tnaacaacac aggttgcatt catttnatgt ttcaaggttc aaggggnagg tgtggggagg 660
ctacttaatt tcattgacgc ngggnccttg cnttnngggc nnngacccca gnttttttgtn 720
cctttngngg agggttaant ncnaacttng ggttaann 758

<210> 4841
<211> 739
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(739)
<223> n = A,T,C or G

<400> 4841
agnnnantnc tatgatccct tgnnncagga tccatcgatt cgaattcggc acgagtgcct 60
ttgntcccca actctaggga gctagtttca tacatttaan ancnctgctt acctcanagc 120
tccctttnag cancngcaga cttnnanatc tgtttaacca gttccctata ttaaattctc 180
tctggnnaaa tacatggnng ggctttgatt anctgctgaa ccctnagnga tncataccnn 240
atnatgctnc nnaannnatg cnatanncnt acaannatnt gtantnnagg atncctatnn 300
cnanactgct ngtnntanca ncatcancat gacannnacc tttaaangtn ttcnatntan 360
ctanaattat ctaaaatgtt aaangncnta aaacannnna ntaagcaaaa gatganntca 420
agtgtatgtn catttagtag tgacttgtga gatttgacgt gttcatgaca gctggctatt 480
tgtattgtct gaatgatagt gtatttgngt actttgccca ttgcctattg gggcattnta 540
aaatngatcc ttaggtaatg ttaattaaga acattgacct ngggcanggc gcggtngctc 600
acncctgtag nncnaacacn ttncgagggc gangcagnaa attcnanana angagtttga 660
tacatctggg caacatngcg aaacctgnct ntctanaatn tananttagc cggcanggng 720
gagctgcnga ntccagtag 739

<210> 4842
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4842
ttatnnntac cgctttgcna ctncncgcag gatccctcga ttcgaattcg gcacgagggt 60
gattcagatg atggcgaaga tggtcgaggt tntgagaacg ganaaatnaa ggcncttcgg 120
acagctnctc tggcaatgta tctgaagggg aaagccctnc tgacagccat ggaggactct 180
ttccagggaa gacagnnatc aaangacaaa gctgccactc cangaaaaga tggtcccaaa 240
cgttctgtac tgtccaagtc agttcctggg tacaagccaa aggtcattcc aaatgctata 300
tgtggaattt gnctgaatgg tnaggagtcc aacatgaaag gaaaggctgn atcactnata 360
cactgctccc aatgtgagaa tantggccat ccttcttgcc tggatatgac aatggagctn 420
gnttctatga ttaagaccta cccatggcan ngcatggaat gtaaaacatg catnatatgt 480
ggacaacccc accatgaana agaaatgatg ttctgngata tgtgngacag angttatcat 540
acttttgag tgggccttgg tgctattcca tnacgtcgct gnatttgtga ctggtgtcaa 600
cngncccncc caacacccag taaantgtgg caaaaagggg aaaaatnagc aaagagggat 660
naaancgttt ttgactctaa tctgtatatg catttaagtg gaatatttgg tgccattttc 720
aacattantt tcatgcccat aaaagaatnt 750

<210> 4843
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 4843

tnnctttgat tcaattcata gcnactggtt ctttttgcag gatcccatcg attcgcccag 60
ggccgcctgc ctgagcctct ctgcagctgc tcacctcctg ctgaggcctc tgccttcaga 120
gctagtgggg cctgctcaca cattccagta gtttcctctt tatttgtcct gaaccaagtt 180
gtagaattta aaggaggtga agtaaggcga tttctatgga aaatatattt ttcttcttta 240
ctcctcatgc tgagtgcata agaatttatt atttcccctg aatgttcaaa gtggtgtgtg 300
tgtgtgtgta aaagaaccag gagcaaacaa tcttaatagg aatgtgcgat cttgtgttta 360
tctttagcac acttaattag ctacaacccg ggactgttgc catttgaaca agttgttaag 420
aaaatctgcc atgttttgct ctttttcaaa aggaatgact ttaataacca tagcaacact 480
tactcagttt tgtgatccac tccaagatta tgggagcaag aacagatnct cctgaaagca 540
accctcacct tcttccccgc ccctgccctc agcaagtcct ggcctgtgtg aactgaaggg 600
tttggaagct ctggtttcta ngagtgccca naactagaaa gactagggtg tctaattatt 660
tgaggggcan ttgtcaatgg cantgtgggg ggcaccccat tgttatttcg aggcactgca 720
ttgctttttt 730

<210> 4844
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 4844
tntcctncgc gngncgnatt ccnctaagga gaggcncgga tccctcgatt cgaattcggc 60
acgagtctcg atctcccgac ctcgtttccg cntgcctcgg cctcccnnnn ngcngnnatt 120
acaggcgnga gccaccgagc tngncctgga tcaaatctta atccatgcgc atgggnacac 180
aagantactg ggttgaannn attctagntt tgtnatttaa atacntgnng atgaatctat 240
tttagcacan ggtataaata actcgggagg tcatctctat cttctctcct tnantgcatt 300
tgggtatacc acgtttaagn nctaaaacag ctnngcntat gttggccagg ggaaaacatg 360
gcatnctgtg cgcaaagntn aatgatcgcn gnccnnnctt ggcccctccc tgggtttatg 420
gncancgtaa gangcccgca tgttaaagct taaaccgtca nttgggctng gtgtaaatcc 480
ccnattnaat tcntggnngg ncaannctct tgaccccgna aacaatggaa agggccanct 540
ggggcctcna anntgtngga gccccnntta acaaacnntt antngnaaac ctttggaatt 600
ccaaccttna aagggagggg naccatggaa gatanttgag tggcccgntn ggaattgnan 660
ccccttnaan gcaattagtt tcnccnaatt ttcctggttn anaaaanatg cnccnaanac 720
cnggggggcc caannctggg ctaaagccgg nggggctcnc anaaccnggg tttttaactn 780
tngatacant anggngaaan aangggcccc tttttaan 818

<210> 4845
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 4845
agcttcattn nactatcagn tgcgctgctn tangtgcngg atccnttcga atccngcncg 60
aggcgngang gcanggannng cagngcncan gnccnnttaa gcnnttttct gtcttatcac 120
ncagngaatn aanntgaact ggatcngaac natcccatat tanccgatcc tttnctcnna 180
tgaaagaaaa nacntannna gaacanatan gctnaaactg atacagnaag tngccgtcag 240
cctctagaac tatagtgagn ngaatgncnt acanccanac ntgatnanan acattgatga 300

gtttngncaa accacatctn gantgcantg aaaaaaatgc nctattcgng aaancantga 360
tgctattgct ttanttngga accattataa gctgnnataa acaagctaac aacaacnatt 420
gcattcatnn natgctncag gancacgnng aggtgnagga ggnagtgtaa ttcgnggccn 480
cggagccaat gcattgggcc cagacccacn tntgaccctn tagtgagggt taatggcgcn 540
cttngcgtaa tcatggtcat agctgcttcc ngcgtnnant tgatanccgg tgcaatntca 600
ncacatacga ccgggacata aagtgaaagc ctggagnanc ctaangaagt gaccaactca 660
cattnatngc ctgngntaac tgncccnttc cagtngggaa accnnnncgc canatgctta 720
angaatcngn cacccgccgg ganaggcg 748

<210> 4846
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 4846
gnnttnaaan nttgcttggn nnnnncnctt tccgcaggat ccnanncgat tcgaattcgg 60
cacgaggtnc agctcnccta nctggnatnt gggnngtnng aaacatncnc tntcctgata 120
ccantgtgcn ngaatcanga nacatangcc attacacngc gtctatgcaa gcttgcacat 180
aacntcangt actgcagctc acacaccctn tgcnaggcng aatnantngn tctgcctccg 240
gatacnaana atntcggctc ngcctcagng ctaatgatcn tnatgtngtg tnctnnagta 300
nntgctgtat ctgngtgtta tntntgccaa actctagnta ntgatcttat gatcccttnt 360
ngaantaana tggggttctt gantgnctga gaacgacttg cacaatgngt tnattgtggc 420
acgtcatctn ncaatganta nnnagnctat tnnccanggn anactcngnt cntacntggc 480
nctaagcact ntnttgncga tngncancnc tctgtgaaat ggaattacng ntattcatgg 540
ntaattacnn attttggccc nctttctgtt tntacaatga aggcttaaan ctaantgtcc 600
aaantgnata atgntccctt aattanaagn ctacttcatt caagtganaa nngnccgtaa 660
tnaanncnta ctctncnact gcataatatn nncctnagga ctnn 704

<210> 4847
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4847
agntntttcn atttctnatn ttgttctttc tgcaggatcc catcgattcg aattcggcac 60
gagagcagct taagcagcag acgcaaaatc gaatgaagct aatggccgac aactacgagg 120
atgaccactt caaatcctcc cattccaatc aaacaaatca caagccctcc ccagaccaga 180
tcatccagcc cctcttagaa cttgaccaaa atagaagtaa attaaagttg tacattggac 240
acctgacaac cctctgccat gaccgagacc ccctgatcct ccgtggactc actccaccag 300
cttcctataa cttggacgat gaccaggcgg cttgggagaa tgagctgcag aagatgaccc 360
gggggcagct tcaggatgag ttagagaaag gtgaacggga caatgcagaa ctgcaggagt 420
ttgccaacgc cattcttcag cagatagcag accattgtcc cgacatccta gagcaagtgg 480
tcaacgccct ggaagagtcc tcttgaccct gctttatggg gaagcctgag gtagtcaacc 540
caggagccaa gaaaagagaa ctacgaggaa caggtgcccg gaaccttctt ggcaccaaac 600
actacaaact tcatcccaac ttgctcactt gaagaagtgt gattncagca cccgtttcta 660
catctgccat cttactctgc ctttctgctt tggatgtggn ctctacacta accttnttga 720

tgtccanggt agatnaangg tcgaatcttt ntgnaaaa 758

<210> 4848
<211> 1030
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1030)
<223> n = A,T,C or G

<400> 4848
gcgtcncact ttgaancntc naanngnggg caatcnaatc gcncnangnn nctaggtann 60
cgaattcggc acnagagcag gcgcttggnc cctaaggtgg atgttagagt agtgattatg 120
gtcagcgtgg gtgctatncn ngtgttncag nttttcanct ggnggaatag ctacaataag 180
gnaatcagct acctagccac agngcccaag tnccgtntcc aagctacnga gattgccaag 240
cancanggac tgntcaaaaa agccaaataa aaaggcnaaa acaaaaagtc caangangat 300
atccgngacn aggangagaa catcntaaag aacattataa aaagcaanat antatttana 360
gggtgnctan tcagnaacnc caaatantgn gnatcntcct ctgtatnana tcaatcctag 420
ctccntntnn cctatnctca tatccnannc tggcatangt cnggagagat ctacnntttc 480
aacatcaanc ggntnnnnat tatggnanag nantnacaga tcantccatt ctacnntaaa 540
tctatnaccn ngtnnactnc tctattnnaa tnnnactatg aanatnctct naactaaanc 600
ntttcnttta nncnaaaanc ctcntgnnct ncatggnnnn aattnnttac ngtccttncc 660
aaaccnncna nacacncacn gancntaatc ttcacaanta nnaacantct gngctnanct 720
cgaacncccc tnaattggct naccannatc ntccactggn atcatncggt antggantta 780
aanngcaact cggntctctg nggnctnctg nattncaann atcnnnntgc gnntatttnt 840
cttgcacaca atatannctc ncgnaatttn ncntannctt nnnnctctca aatactctct 900
ctanacatag agcaattann tntctgatna tactntngac cncgtcantc acnacgngca 960
caanannata tcattgtaca ttcatntatc tgtngacttt acnacagtcc cngccaatnt 1020
aacaaacnnt 1030

<210> 4849
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4849
cnttncctna ncaggtatgg ccattnccnt ttntgcagga tcccatcgat tcgcctgtcc 60
gagagagccc cgctcacggg gcacagctgc tacttttttag gccntgctgc acttccggac 120
ccactgcttc aactggcact cccccacgta cgagtatgcg ttgagacatt tgtacgtgct 180
ggtcaacctt tgtgagaagc cgtatccact tcacaggata aaattgtcca tggaccacgt 240
gtgccttggt cactactgaa gagctgcctc ctggaagctt ttccaagtgt gagcgcccca 300
ccgactgtgt gctgatcaga gactggagag gtggagtgag aagtctccgc tgctcgggcc 360
ctcctgggga gcccccgctc cagggctcgc tccaggacct tcttcacaag atgacttgct 420
cgctgttacc tgcttcccca gtcttttctg aaaaactaca aattagggtg ggaaaagctc 480
tgtattgaga agggtcatat ttgctttcta ggangtttgt nggtttgcct gcagttttga 540
ggagcaggaa gctcatgggg gcttntgtac ccccttttaaa aggagtcnnt attctganaa 600
ntngaanctg aaaccttttnt aaatcttcan aaangatttt attngaanaa ggnccnnanc 660
nccnaaangg aaaacnnnnn tnnaaaannt natnantttt tgaaagnnnt ngnnttnnaa 720
actannnnng nnnncnnaan ccaancnnnn nnnnaanacc n 761

<210> 4850
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(863)
<223> n = A,T,C or G

<400> 4850
ttnacatcaa gctcttgntn ctanccccct cctcgattcg aattcggcac gaggagagag 60
agagagagag agagagagag agagagagag agagagagag attnagagag agagagagag 120
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 180
agagagagag agagagagag agagagagag agctnaaggg aaggctgccg 240
ggaaggcaaa tggaacagga atggacctgt ctcangaagg ccagctgcan gtcctccaca 300
aaatcaaaga agggaagaaa ctctgagttt gaggtacagg ggcttcnggg tgcacacgtc 360
cctccagggc ccatggtcag tattgcacct gtgttatgaa cccccatatc tgtgcagggc 420
aggggcgggg gctgctgttt tattggggag gggagcctcc taaaaatggg gtccaggcag 480
acccctccag acctcacact gncgaggagg cctttcccaa aggggcgttc tccccgggat 540
gcanaccgna tgttttgtgg gaaaccnccc tttaaatacc ccacaccgac gtattccttg 600
ttcccgactt tttcccgggt tntttgtttt gaaaaatacc tgtnngtttc angcctcntt 660
ggatcttaaa atgggcaana atagggaacc ttttttttttg tcaccaaaaa aaatacctgg 720
gggggaaaaa attgtttgtn aaaaaaataa gacnttttttg ggaccaccac caacntttt 780
tgggggggctt tccaccttga anctttccaa nttttttttta aaccatgggg antttattn 840
aaccnttaaa tggtttttct tgg 863

<210> 4851
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4851
cgcgggcgna agcgnagcnc ttcccaacnn ccttggatcc natcgncccg aattcggcac 60
gagtatgggc ttgnagaaat gctaccgttt ttttncccgt tnanacntgg atcccgaaac 120
tgnactaacg tnnagtatca ggcnnaatgn cnggaaaggg nnggcttatg naggcaacta 180
cagatagttg taagggatca tacagaagat attgatgata gnngaaatat tcttagaagg 240
ggtgtgtatg tctagctgng tctaccatgt gtatgtattc ttgacaagca gtataaaata 300
cctgtgantt ttctttacat tagggataat gcataaggaa ttaatcttca tatatattat 360
catccctaat gtagcagggg gaagtattta attgcccatg atatgtattt tacttatact 420
atgccagaga ggaaacnata aagnaattac acatgtaatc ntgggttntt cacatatgta 480
ggtatncatt tngagtaggt tgaagaaaga aaaaaaatat ttaaatgaan tgaattcctg 540
atgggatagt ancaataagt atttaaaagc cngtattcna aaaataataa agggtacggn 600
catttttgag cttgnnnttc ntttgctacn ggaaatantc caaannaaag ngntancant 660
ggcaccngct ggnctcaacg cacntattgg naaccgcact gganaggatg aacaaggggt 720
nagncaatag caaaccccta taacattccn ggccaaanac c 761

<210> 4852
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4852
ttgaaccttt ntacanctct tgtttttttt gcaggatccc atcgattcga attcggcacg 60
agaccaagta gaccagaaac tgaccattct cagtcctact tcagaaaaca acaagaagct 120
tttcaatgat ctgtttaaaa ataatgcaaa ccgtgctgaa aatacagaga gaaagcaaaa 180
tcagaattat tttatggagg tgatgactgt agaaggagtc tatgattacc tgatgtatgt 240
aggacgggta gttttccagg ttcctgactg gcttcatcat ctcttaatgg gaactcgaat 300
cctctttaaa aacaccctgg aaatgtatac tgattactat cttcagtgta aactagaaca 360
gctatttcag gagcaccgtt tggtctcact cataacactt ctcagagatg ctatattctg 420
tgaaaacact gaacctcgct ctctccaaga taagcaaaaa ggagcaaaac agacttttga 480
agaaatgatg aattacattc cagatctgtt agtcaagtgt attggtgaag aaaccaagta 540
tgaaagcatc agacttctgt ttgatggctt acagcaacca gtactcaaca agcagctgac 600
ttatgtttta ttggacattg tgatacagga actgtttnca gagctcaata aggtcaaaaa 660
ggaagttacc tctgtgacat cttgggatgt aaacactttg ggatttggta tagaataacc 720
cattgaaatt tctgctgtgc cgaaggtggt agaaatttac ttttttgggt atatcttat 779

<210> 4853
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 4853
tttccagttt tanttttttc ancttttnga tcnntttgca ggatccntct tttcgaattc 60
ggcacgagat tctccctaaa ttgtngatcc cactgtttac naaactgttc tnttgtgctg 120
gcntgctnan tgctntgtag nnccttttctg nacnntaggc attgctcttg gagaacnnga 180
tgtgctttnt ntnaaanggc anaccagngn tgnnctgnnt ttaatgatgc agancctnac 240
tttatccaca cctggcccgt ttnacatttn agtaangnac gatatttggc tgatggctga 300
acantttctg aaatacacnt ttagtgtatg gaantacaag accnntaaag gnctgccagg 360
ttancatctc atctngcatt cnnntccttt ggcnanaaag gganatntca gaattatatt 420
tcttgatggg gtcttttcaa tcantgtatc tgtcgaaann tcttaganaa anctatgtgn 480
tcncggtgtt gtctaaaaan atnctttcaa anatgacccc tggaattncc tgananangc 540
ttaaacgtga gaagacnggt nggcaaaaca ccctncnaag gttnttggna angcccnant 600
ntgttttgtc tggcccatat aancttngcn ccattnaagc cncgggngag ctttgnatnt 660
atattngngg ngttactttc tttgnncctt tgcggggaac ancttnnata atgcttntcn 720
ncccnanntg gacntttgct ttttgnnncc nnaccccccc aaagggngcn cacctccant 780
gaaaaagtct ttttnnaaaa gggctccttn ctnaaaaaaa nnnnt 825

<210> 4854
<211> 1090
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1090)
<223> n = A,T,C or G

<400> 4854
gaaaggaagc acgcaaagca actcccagca gcatcccagc naaangccca gaggaaggna 60
cnnngcagna cnacccncnc gngcaccgcn ttnttttccc cagtaggngn ngacacgcca 120
acnnnnnggg nccncgngga caagaggcng ancccaaaac nngacagggc aaggacccnn 180
cagacncggg ganggngacc agagcgcggc cnagcgagaa acagccngcn accgnnaggc 240
canaaancan gccgctgaag gganccgggc tccggccnta aacnccanca ctgacacgac 300
ccagcaaacc ccncaagagg aaaaagaccc ccaagggnna aacacaagcn nagggcangn 360
ncacgggggа ccccccgaccg ncnancncgg ggaagccngc cgnangaacg gganangnca 420
cnangggngc ataagaccna ccacncaggg ccnaccangg agaaaaaaan ancgnacnan 480
aaaggncaaa ccgcaacncc ggaaggggca cccacnaagg gggaaccccc naangggctc 540
gnaccgggcg ccantngcca aagnnggncn cccncaaacg acccgggggg ncnaaacccc 600
cccgggggcc anccacncan gggggggganc cccaanggan ggcaaagccc ccaaagcccc 660
nccgggggca acccaaaaan ccnnggagcc cngngnccca naganacngg aaacccgggg 720
gacgncccca anacncagac naaaaaagcg ngggancccc caaaaaaagc aaanngcaca 780
cnccccccgag ngnaccnang ncaanggggg naaagacaaa anagaccccn nnganaagan 840
ccccnnaaag gccccacggg ggaaacnngg gacncncagg ggnccccccc nggggaccnc 900
ggggngngcc nanaacccnc aaaaaacggg ggaaaacncc ccccccccana aaaggcccac 960
nggacnnana ancccccccnc ccngggaggn nncccnaccn cccnngnncc cnangaaaaa 1020
cnananngggg gnaaaaaccc cnngggngnc caaaaaaagg gggaaacccn ccgaggggggg 1080
ngannccccgc 1090

<210> 4855
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4855
gctaanngcn ggctactngt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
gntggggnnt cgncggncnc gctangnnng ccatacncaa tntnnagagt ctanngnntg 120
taannttgct gcttatatgt acctgtgctt atattcganc ctngnnncnc atncttctgg 180
acngaagtaa gactggattg ttgggtatat taggggnann gtgccagaga tcngtgaacg 240
gcanagncct tatgtggccn antgcngtgt aatantggcc ttaagnatcc tnttcanaca 300
nnagctgnnn aaaatgccnn antgtagcan ncatnntatn agnttgnnaa cannngactgn 360
cngcccanaa taanggctgg gatgttgaac tctggantct ncgaacattg ngtgaganan 420
attgncngan gctgtantct nttttaatgt gatnggncca atgnnctgta taaaccntta 480
ngatgtaccc nttnnatatt cngtaccnnt natcctcagt antgtcacta cagtatcaca 540
tantgcatat gttatcctgt tgtancagat actgaactta gtgaggtntc nctaaggcac 600
ntagananaa ancaannttg gttanntnct nncgtatctn tcactgtgan ttgcanatga 660
tntantcttt atanaatgng ancctttttac cggnctaant tttnaattaa aatggctnat 720
tntgtgttga taaaaaaaac tcgagcatac ttnnaccctc tngaactata nttgagtcn 779

<210> 4856
<211> 1776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1776)
<223> n = A,T,C or G

<400> 4856

ggnggagggn nnggnttttn naggngngnt ttannngtgg ggaaaaaacc ccttttttnt 60
taaaaannnn actttggggn gaaangnngc tgnanatant cggcctnnng nganangng 120
agtcgngngg ganagnnggn tgnnnnnngn agngatatag gntanganta gtananggat 180
ananngagca gngaacngta gtttttttn agngaganan nngagnnaan aggnanacna 240
tnanaganng gggggggcg caanggggtg nnaaggcgag anncnaactc gnannanaan 300
tgaaannnnn anacngtgnn ananantgag cgnngatnna tnnntgcaan ncataagaan 360
tngnaatgna nnntgnnngn acaaannnct ncganagnnn gcaagngaat ncgnancnna 420
cnnnagngna gaagnagtan nangaccnnn aanggantnc ngagaggnnn nanaaggatg 480
nnnannnann gnaganngnn gaananaaga ggagacnaac tatannagnt agnntgncna 540
nngnaganna nanaagcnga naganannnn tgngagnann canangnggn anntaaagnn 600
nnannacgta tangagntgt gtnagaactg aaganaanna ncacgnaaat gaanaacatn 660
cnnngancna nncgaangaa aatatcacgc tganngnaga tagatanacg ctcnntatng 720
anncagtnac tgtganatct gcganangac ancacngnna gntnnacnac acagatgnan 780
gctnananan gnagcagagt anaagacnng gagnngngtn cgcanatatc gatatnaagn 840
ntacganagt gannananga anantgantn aggataacga nnagnnngnt ntatnngggn 900
tanaggngag agntanantg ctgcncncna nannanngaa tncagcgcnn gncgancang 960
nnanaatngg gnannganan anantgtann nanagcaang ntannagtga ctntnnngta 1020
atngatngag nnagnngana tgagtgctct gncnntagcg aganantacn gngaatntnt 1080
anagagntgt agagnagcag cananannan tntcngngtn naangtagag agcganggan 1140
actnnntagt atanncagan acgangangn ggtgtgnann cggagtgtag agncgattag 1200
agagnaaacn nngncacggt gtatnanaga tngagacang angagaactg cnnacaagna 1260
nntannnaat angtacnnaa tgngancata agtatnacac aggtnactnt atanngnnca 1320
tcaacgcncg antntanaaa cnntagnttn acnannaaag ctacgttctn nncnagaaga 1380
agnactnnan ganntngagc ngcacganaa gtatcgtngg aacgagcant cgtnnatgag 1440
anagtanaca ngcaaanagg aagnnnagna acagtcacan gncagangaa acatnctcac 1500
nngnnantta ncgnnganac gtaaatgtag acacgnagga gatnaannng atatgangga 1560
nannnaaaga gtanatgcgt antngnatna gananganan aagtnaagag antgacnana 1620
tanatgatnt anganagacg ganganataa tctggaagcg nggaanagan tagagatagn 1680
ngaganggat cnngtanaca gntcnnngnc nnctanatga ganngnncaa ctgtntatac 1740
gatntannna ggnagatcaa gaatatacnn tctcct 1776

<210> 4857
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4857

gttaatctct agcnaggctc ttgntntttc tgcaggatcc catcgattcg aattcggcnc 60
gaggttaana gaatnaaaaa gaatgattga agccttcgag acatatggga tactataaag 120
ccaccacata tttgaatcat ttgggtccca gaagacagag aacaaaagga ttggaaaact 180
catctatttt tttgttatta aataatagat gaaaacttcc caaatctatc aaatgattta 240
gatatccaga aacaggaggc tccaagatcc gcaaacatat acaatgcaag aaagtcttct 300
ccttggcaca ttatagtcaa actatctaaa gtcaaagaca gaattctgaa aaaggcaaga 360
gaaaagtgcc tagtcagttg taaagaaaac cttatcaggc taatagtgaa tttctcagca 420
gaaaccttac aagccaggaa agaatgatac attcaaagta ctgaatgaaa aaaatgctat 480
ccaagggata ctatatctag caaaaatatt ctttgtaact gaaggagaaa taaagtcttc 540
cccagaaatt gcttaaggga gtcctaatcc tgggagcaaa atgactacat ttaccatcat 600
gaaaacttat gaatgtgtaa aacctgctaa tanagcantc acacaaagga ataagggaaa 660
gtaattaaat ggtcctgtac nggaaaacca ccaacccana attggaanaa anaattnanc 720
ttnaaaaacc tcgagcctct tgaactt 747

<210> 4858
<211> 1197
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1197)
<223> n = A,T,C or G

<400> 4858
aggggtttac actnctaaaa ttnttgagct nncgntgggc gnaaaggggg cnccccttaaa 60
naanttaagg cccncctnaa aaanaatcag ggannattnt gggggggctt tgngggggg 120
gtcatctatc nnnacaccnt aantntatta cncatagata ctcaattncc ntctctagna 180
natnnnngga tctttntcgg ctntnnancc nctcctacta ttactnctna aacgtnccnn 240
catantctnt ntacacatat atctnanata ctatacatat antntcatan tnntactact 300
ctnatntctc ntctacatct ctanttatnn ntcnntcnct ntctncnatc tantctcata 360
tctnnacgac nnactatttt tnctccnntt cctnctntcn cnntnttanc cccnatnann 420
atctntcacc ntnnattttc naatactcta tctattantt aactatctnc tntttcnnnc 480
nnntnnnnct atnnnnncttc tananactcn tccnctnnnc tnntnncnnn taantcnntn 540
cnntctctnn tnnnnnntnn tgnnnancct nactaanntc ntcnncntcn ntnattanna 600
nattnntaca nntcntccct ncanctnnnn nattntatan tcttnttncc nnttcantnt 660
anatnttntn nctancnntc nntaattcaa nattnatntc atcntcnnnt nttnancaat 720
nacaatnacc nccanntcac ctaatnttna tcncatacna cnccnnnctn tanccnnata 780
tnactncnnc anttcnntnt natctctnnt tnacacactc cnnngantat actnntnaca 840
cttcttatat nntntacntg tnatacactc ttnacntana tatnnatcan actnatanaa 900
agcatactat catcttacct nctntnatat accatncacc aatcacttan tntatncatc 960
tcannacanc tccacatatn actcatcnct aatatgtctc tataatnntn catctactca 1020
ntcacnnnna ctctntagat atatnctata ctncancnta tatntatcna ttcatctaca 1080
nantanctcn catctnttgn nctatacnat aattgtntct catatntntt tctcctacan 1140
nctttatctc gatnnttatc ntgtancncn nntntatcta natatnacat atcacat 1197

<210> 4859
<211> 767
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 4859
gaaancccct ttgttactnn gtnctttttg caggatccct cgattcgaat tcggcacgag 60
ggggattcat aattccagac aggtagagaa cggttttatt tatgtagaga cagagtctcg 120
ctctgtcgcc cagctgaggc ggggagaatc actttgacct gggaggtgga ggttgcgctg 180
agctgagatc attacactgc actccacctg ggcaacagag tgagactatg tctcaaaaaa 240
aaaaaannaa aaaaaaaact cgagcctcta gaactatagt gagtcgtatt acgtagatcc 300
agacatgata agatcattga tgagtttgga caaaccacaa ctagaatgca gtgaaaaaaa 360
tgctttattt gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat 420
aaacaagtta acaacaacaa ttgcattcat tttatgtttc aggttcaggg ggaggtgtgg 480
gaggtttttt aattcgcggc cgcggcgcca atgcattggg cccggaccca gcttttggtc 540
cctttantga gggttaattg cncgcttggc gtaatcatgg catagctggt tcctgtgtga 600
aattgttatc cgtcacaatt ncacacacat acgagccggg acataaagtg taaagcctgg 660
ggtgcctaat gagtgagcta ctcacattaa ttgcgttgcg ctnctggccg ctttccaatc 720
ggnaacctgt cgngccactt gcnttatgaa tcggccacnc ccggggn 767

<210> 4860
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4860
ngnntttaag atcannccaa gcgcttggtg caggatccct cgattcgaat tcggcacgag 60
gaccacctac ggaaaactga ggcccacata agctcgattg gttgtacctc caacagatat 120
ttattaagca cctactaaat actgagccca ttgcaagcac cagggaagcc tctgtgaaca 180
gcacaaggtc cctgctctgg agattctgct tcagtggtgg agacagaaaa taaacagttt 240
cccgtcacca attttccttg gaattggaca gatggcagcc accataatga tactatatgt 300
gtccaagcta aacaaaatca ttcacttccc tgattttgat aagaaaattc ctgtaaagct 360
gtttcctctg cctctcctct acgttggaaa ccacataagt ggattatcaa gcacaagtaa 420
attaagccta ccgatgttca ccgtgctcag gaaattcacc attccactta ccttacttct 480
ggaaaccatc atacttggga agcagtattc actcaacatc atcctcagtg tctttgccat 540
tattctcggg gctttcatag cagctgggtc tgaccttgct tttaacttag aaggctatat 600
ttttgnattc ctgaatgata tcttcacagc ancaaatgga gtttatacca aacagaaaat 660
ggacccaaag gagctagggg aaatccggag tctttctaca atgcctgntt tntgaattat 720
ccaacttctt attattagtg gcttcactgg anaacctgnc t 761

<210> 4861
<211> 984
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(984)
<223> n = A,T,C or G

<400> 4861
tgngnttttt taaaaaccag ctacttntta tnaaggcagg cnaccgattc nnattgcggg 60
angancatng attcgngccc ctgcatgatg gtggcngaac tnnntgccca aagtggggcc 120
tgggancca acaaccccaa cangccgncn cggtnaaccn acaatatcaa cccgcaaacc 180
ccagggacgc cggccatgta caacacagac cagatctctc cctatgctgc cccctnccca 240
caaggttttc tnccanccca tgcccagccc ccanagctac caccaagtgg tgccaanccc 300
agcangctac catnaatacc cantccccat ncaggtccac cntacaccgt ntaccatggt 360
ctatcaggct atccccancc cgagcnccgt ttggctacag gtctatgaca acctggnagc 420
tccctntccc atgggnggtt anaaanccca acaaaactgc tcaaggcttn aagggtattn 480
tgaagcgnga aaantttcgg gcagaacttg gggttnaccc nacctggnnc antttntaag 540
ggtngaaaan ggttgccggg gggaanaacc ctttactcct tgggaattaa cnaacnaagg 600
gttggggtgg ggggaacaaa cnaacaaagg gggnggggtta antccccccc cngtnnggtt 660
nnacnggggt ttccccttgg gggggggcccc caaaagggtt ngggnangng ggttnggagc 720
caaggnaaat tncnctnttt nccttttnggg gtanccccccc ctttaaaact tngggaagaa 780
aaagaaactt tnnttcccna aaattgggtg naanagnccc ccaaaagnng ggcaaaaagc 840
ttggggattt gnggggaaacc ntaaaggggg aaaggggggag acttttttnaa ancccaaagg 900
ganggnctttt taacttgatt taaacggggg aaannaangg agggnttnct tggggaaagg 960
anaaantttn tgccaaanaa ccnc 984

<210> 4862
<211> 772

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4862
ggnnnggttt anancagctc tngatctcng tgcacgancc ctcgtttgna tgatcnnatc 60
gattcgctca ngtcggntgc catttatggn atnactttat tttatttnat tgcattatna 120
tatnatnttg agacagagtc tcactctgnn acccangctg gantgcagtg gccggatctc 180
ggctcactac aagctctgcc tcctgggttc acgccattct actgnctcaa cctncngagt 240
anctgggact ncaggcgcct gccactgggc ccggctaatg tntngtattn ttagtagana 300
cagggtttca ccatatnanc caggatggnc tcgntctnnt gaccttgtta tctgcccgac 360
tngacctncc aaagtgctgg gattacaggc gtgagtnacc atgcccagnc tcaagtaggt 420
tttgaatgaa tttctcatac ttttaaagta caacattatn gcaataacag gactattnca 480
cttcttttct aatttggata atggatagat natcctaagt gtnatangat ggctcaacct 540
ccgtacaatg gtgaatcccg nntcagtnga aatctcggcc nggtgtcaac cttgaacana 600
agcccctagt natnaccatt tngtgnatta gcctttggtg ttnagttttt caccttggnt 660
taactgnnng ccttaaacct cnttnagctc aagtggaccc ttccnacctt taaccggccc 720
cgnattaagt tgggggancc atttgggcct ttgcngccna ccccnggccc cc 772

<210> 4863
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 4863
nnnnnanngg nttttatnct cngtnnncnn tttnnaanan ggnangcnac tggtncgaat 60
gcaggaccca cnattnnaat tcggcacgag anggccttan gctttttttt tgtagggtga 120
gagtggggga gagatctctt gctctgttgc ccaggctggt ctccagctcc tggcctccgg 180
cagtcctccc acctcagcct cccagagtac taggattatg ggcatgagcc accacaccta 240
gccaggcttt ttatattgag ttggttatat atgcttcata gccacacttt ataatattgg 300
agtatagtat taaattacag cttgttgtca agtcagngtt tctgtaagac agtatatnca 360
atattggnta gagtaacacc tatttggtga tacaagatca acagggtgtc tctgattaat 420
ttagctccta catagcccag aagcnagttc attatgattt agaatattgt acatggttat 480
gcaaggaatn atnccaacct atntgtgttt atanggtcag atgatgttca gatttatatc 540
tgctgatagn gntntnttgc ngggaaaacc tataaaaccc cttcngactt gttanaaaca 600
gtgagnaaag ccnngattgg aaatatttaa ttacaaccct cgtggnatta aaatttttnan 660
tttaccattg ggaatggtta aaatgctngn ncattttgna annttgtta aaanccttgn 720
ntcctttaaa aacnttttga aataaccctt gntctanggg gaaaaaangt atttnnaggc 780
ccnaaaanaa atannanang gggaaggngg ggggattttn ccaagtnccc ccntatgttt 840
gggggggcc 848

<210> 4864
<211> 769
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4864
tngccttang gtnnnccttc ccatgcactc ccacggaaan gcccncccat cgtangcgca 60
gcatccacat gaacaggcgg cgccgaaggg atcctgcccc tnactctcnt tttctgttga 120
accatctgga attcacaggc ctgtcatgag agacacgatg agaagtcctt aaaggtagat 180
cactgattca caggggagca ggcggaggca agggtgagtc agtgcttgga actcagtcat 240
ccagatttgg ctctggaaac ttctgaagct gtagcctttg gggatccctg actgcgagta 300
caggaagcca acgctatgtg gtcttctgga aactcattat ctttttcact ggtgctatct 360
gggaaaaaca gatgaaaacc tgaaggtgtt ctgtatgtgt gctttcaaaa gcaaggatct 420
ggccggacgc agtggctcag gcctgtaatc ccagcacttt gggaggccga ggcaggagga 480
tcacctgagg tcaggagttt gagaccagct nggccaacat ggcgaaacca tctctactaa 540
aagtcaaaaa ttatctgggt gtggtggtgg gcacctgtaa tcacagctac tcaagtagct 600
gaggcannaa gaatcanttg aacccaagag gccaaagttg cacttgagca caagatcaca 660
ccactgcact tcnacctggg tgacaagaat gaaacttccg nctcaaaaaa aaaaaaaaaa 720
aaaactngac ctntanaact atagggagtc gnattccgta anncngacn 769

<210> 4865
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 4865
ggnnttnaaa tatcagctct tgttcttttt gcaggatccc tcgattcgaa ttcngcacga 60
ggtctangnn gatgtctntc naatcatggg ntgtccntnt nttttgacac agggccttgn 120
cttattgctc angctngagt gcagtnagct gtnatnncac tgctgcnctt cngcgnannn 180
gtnanaatan tactctgnnt nnganngaan naantanatn gntacccnna naccaactct 240
gtctaaatgg aaaagatgga tnatnaatct tagncttnat agaacnntga gattntcaan 300
nggtgcgang cacagtgctc attnttncat cctatcacaa gacncgtnta acctntaacc 360
gtnaacaana tgnaatcgnt gtataaaaac aatnnctgtg nttaataggt gactgactac 420
agtagccttt naggagtcca nagncactta ttcagcctga tctttccaca tacactacat 480
tgnattgtnt aanattcnta naaattactg cgcnatctan ngctttaanc ctnatgtagt 540
gactgntgct atatctggaa gtatctntaa anagtttgct gggnnttnct cactgcttaa 600
tcntactaga cntatncatc tgcctatcnt atcacttngc cnnnatgatt actgcaccgg 660
tntacgaaaa atnccattan tgattaaact tttaaaggnc aangaccata tntnnng 717

<210> 4866
<211> 1403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1403)
<223> n = A,T,C or G

<400> 4866
gngacgttgc aaaaagcctg gggtttccaa aagccttggt tgacgcccat cgcttggang 60
gccgttngcn aacgcnccna cacgcgnnac nngnncnact gagacnagca anggtgncaa 120

nggncagann acaaggangg agnctnnntg nacgcgcggn ttnnnccggg ggnancnang 180
gggggggagaa cnnnccgggn ggnanaatng ggcgngnnng caggacncan ngcanatncg 240
aaagnnnccn nggnanccgc agnccggnng acangcgnct gancnnggan nnagnnanng 300
agnnaggaga ggngngcccc anggagannn gnacggacnn ggagnganag ncannncacn 360
cacggngcnn aaganaggga nanncnngnn gcaaaggggc gagnaanngg ggnantnann 420
ganagangan gannggagna gnnnagngan nannggaggg ncncngnnag tgcatacaga 480
gaanggcgac nngaagcgaa aacgccacaa nanggcnncc nnggngcnna cnnnganaga 540
ncaacncggg nanncagcng gacgacgagc agcanancgn caactagcan agganananacg 600
gaannnggcc ncantcggcg agnanaaaag aaagccacng cnaaacgcac gnagncacna 660
nacgaccnca gnggnncacg gggcanacag nncncgacgg cngcnnannc taancagacn 720
cacagcgcaa aaatgggggа gacatgacaa nnnngacagc ganacaccac gacaaacgcg 780
cnggcananc anagcgccnc ganaggacng acggngaaac cgncgacagc nccacacaca 840
agcncagaga ggnnntacac nctagngaca ngagaggngn cngggnaagc gcacgagaac 900
annaacaccg acagagcang agcgnnnana gcaaagaccg gacncnagna cgccnanang 960
acacggncng nagacannag agnannagng atgnngacan aacggngccg aanagaagac 1020
gnacancgca nngaccaaan gnacnnannc accangagaa gaagagnaga acgnacacgn 1080
acnagcacga agaccacnga gacntgaccg cgcacagaga agcacngggg gacgcccana 1140
gaaaanaang agagctgcgc anagagcaca gaancacgat gagaacggnc cnaaacgant 1200
ncacgcccaa aacagganan nctgggggca nacaanagag agcaggtagn caanacngnc 1260
gaanagnccg agcanagaga cntgggnngn ggagnagcag ngnnggnnca nccagaacaa 1320
gaaagnngga cagnacngcn angcantagn nanaangnaa gnnattnnng gntngncagc 1380
gaanngtnaa gcggagngnn cgg 1403

<210> 4867
<211> 1019
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1019)
<223> n = A,T,C or G

<400> 4867
gnnggnnaaa nnggctttta aacatacagn ctacttgttc tttttgcagg gatcccatcg 60
attngaattc ggcacgaggg ccaccgaaga gggcaccagt gtcttgtcac ctggactnca 120
catangacta atnntgntac tggcaataan gatctatana angtcngcna ctgatgtgta 180
tgaaaagcat acntgactnt atatnctaat gtngggatgt gannttncta aagtntnaca 240
ataattngtg ntancatcac atgaccaann gttaactant atcttggaga cactgacttt 300
ntggggccat antnttttga ttttanacca agaacntnta atnatntgta tcccaaatat 360
gntgctcctt ntgnganagn ccaanggctg atttncctnt ncatcttnna tnnttgttgg 420
ancacctaan gaggtagtnt tctngnnggn cctngnaaaa antnttccan aanantaccc 480
gtgtgcntcn ttanaatnga ntaattgtcn naaaattaan ntaggcnntn gnnncaaaan 540
naaaaggcct ccccttttgaa aaacaangtn attttgaaan aangataaat cnntntnnag 600
ttnatcannn nanannnana tntgtcnaat ncnntctana ttttntaccn nnntntagta 660
nnattcntaa aannntanaga ccnttttccc tnntgaagna nnctntgggc ntaannaann 720
tnngntnann nntcancttn gncnngtntn nnnnnattcg ngtaatatgg anncatttnn 780
nanataaaan anannttctn nntgnangac nntactanac aaantttaa antnngttct 840
acancccnnt tttanannta nanantcgna tatgaatttc aatctcccna tnttgttnan 900
ataatcaaat nnanattaaa ttttnataan ccttattaaa acctctttna tgaagnatcc 960
aattnntgat naatncntaa acnatgntat actnnnatat ntnattatnn antgnnccg 1019

<210> 4868
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4868
tgnnnnncgt nagaccagct tttnaacata caggctactt gttctttttg caggcatccc 60
atcgattcgc atccctggag cagcttccaa cactacttca gggtggcagt gtttggggca 120
ctgggcgagc ctgccggcct ctagatggcc tcatctcttc cttccacaaa ctgtctagaa 180
ccaataaaag gaaacctgcc aaaaaaaaaa aaaaaaaact cgagcctcta gaactatagt 240
gagtcgtatt acgtagatcc agacatgata agatacattg atgagtttgg acaaaccaca 300
actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt 360
gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca ttttatgttt 420
cangttcagg gggaggtgtg ggaggttttt taattcncgg acgcggngcc aatgcattgg 480
gncccggtac ccagcttttg gtccctttag tgagggttaa ttgcgccctt ggcgtaatca 540
tgggcatagc tggtncctgn gtgaaaattg ttattccggt cacaaattcc cgccacatnc 600
caanccgggg gccttaaagn gttaaaacct ggggtgccta aagaagtgan cttaactcac 660
catttaattg gcgtttgccc nttaaatggc ccgcttttca anttcgggaa aaccttgtcc 720
ntnccaagct tgcanttaaa tgaaattggc caaacgccnc cgnggnaaaa ggccggttnt 780
gccttt 786

<210> 4869
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4869
gntnatgacn tnaaactctt tggcnagcag gctccctcga ttcgaattcg gcacgaggaa 60
tcttccttaa agtccagagt ctcccggann ntggagnttg tccttcccaa gccttctcgc 120
ggggagggaa ttccttcttt ctgccgcctg ttacatccct gtgtgagaag gtctggtgag 180
ctgagcccac atcactcgtt ctgctgccca ggtgtgcttc catcttcact gtggaaaagt 240
cattttgaac tccccggtga ctgcaaatta agtaatcaag gacagatggg actgggttga 300
ccattccaag gagtacagtt acttgaagaa tctggaagca ataccgagca catttgttgg 360
cattaattca ttggagcaat aatgctgtac gtagaaagta tgttgctttt ttaaaaaaac 420
atcatcagtt ctgagcattt gtagcaagtg aactctaact tggaacggat gataaattct 480
tctaaaaaac aaataaaaac cctccagaca atattatgca ttgagagctt taaaaaatat 540
atatcctaca gcatttggaa aacactttgt ctggctatgc cactgcactc cagcctgggc 600
gacagagcga gactccgtct tcaaaaaana aaaaaaanga agacttgnat taatggagaa 660
acagactggt ccctggctag aaatnccaaa tattgnaaag aagtcatttc tttaaaatna 720
atttatggat ttaatgcngn cctnagttaa aaatc 755

<210> 4870
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 4870
agtgnntttn aananacaag ctacttgttc tttttgcagg atcccatcga ttcgaatcat 60
aatggggaag gccatccagc ctcgcgtcgc gaacgccagc aagacgtagc ccagcgcgtc 120
ggccgccatg ccggcgataa tggcctgctt ctcgccgaaa cgtttggtgg cgggaccagt 180
gacgaaggct tgagcgaggg cgtgcaagcg ctcaccgcat cgtggcacct ggcaagggca 240
tcctggctgc agatgagtcc actgggagca ttgccaagcg gctgcagtcc attggcaccg 300
agaacaccga ggagaaccgg cgcttctacc gccagctgct gctgacagct gacgaccgcg 360
tgaacccctg cattgggggt gtcatcctct tccatgagac actctaccag aaggcggatg 420
atgggcgtcc cttcccccaa gttatcaaat ccaagggcgg tgttgtgggc atcaaggtag 480
acaagggcgt ggtcccccctg gcagggacaa atggcgagac taccacccaa gggttggatg 540
ggctgtctga gcgctgtgcc cagtacaaga aggacggagc tgacttcgcc aagtggcgtt 600
gtgtgctgaa gattggggaa cacacccctc nccttgcca tcatggaaaa tgccaatgtt 660
ctggccccgt tatgccagta tctgccagca gaatggcant gtgcccatcg tggacctgag 720
atcttcctga tggggaccat ga 742

<210> 4871
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(846)
<223> n = A,T,C or G

<400> 4871
tttnaaatcc cagctctngc agnanttcaa gtccncnttt ctaatncttg gcanctcgat 60
ctcgcncgaa nnnnntnggc ncgagantct gcnctacaac ngacaggatt gntagaacnt 120
nnnnngtcng ggggatntng aatantnnnt caacacnngt gatacgcntg anctaacagg 180
tggtgttttn antataccna cnnaaatagc angatgcgac aacantcctg naacngtgtc 240
ttntcaaagn caactggcct ggaaggctac aagtgtcnnn aaagattctg ttcagaatct 300
agccacagan ataaaggatg gacaaatacc tgngacatag tctnctcana gacanccaag 360
ccttgaangc tcaggtgatg aaaangattn tgtttcgaat ntanccanga gaaataaagg 420
atgganaaaa ntctgggaca ntgtcttctc agaancaatc ngnccatnaa ggttntattt 480
nacangaaag ttctcntttt gaatatttgc cacacngaat aacnggcggt tgngaaatct 540
nnaacagagt atnctganaa tntgcccanc cntgnaangc tacaattgaa aaataataan 600
ntctgatctg aaatacaagc caccaaaatg naangattgt acnaatcatn cncacccagc 660
agcaacanng acttnatgaa atggccatcc annnnggaaa accanaagga agctttgnna 720
nnaatntgca atanattacc canncnnaca aggttgaaaa aanccanaat tncattnctn 780
agggatggac cctttgntng accttaaatt ncagtccntc ctcnaaaccn ttcttnaaga 840
aggnnc 846

<210> 4872
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(717)
<223> n = A,T,C or G

<400> 4872
ggnnttnaaa tatcagctct tgttcttttt gcaggatccc tcgattcgaa ttcngcacga 60
ggtctangnn gatgtctntc naatcatggg ntgtccntnt nttttgacac agggccttgn 120
cttattgctc angctngagt gcagtnagct gtnatnncac tgctgcnctt cngcgnannn 180

gtnanaatan tactctgnnt nnganngaan naantanatn gntacccnna naccaactct 240
gtctaaatgg aaaagatgga tnatnaatct tagncttnat agaacnntga gattntcaan 300
nggtgcgang cacagtgctc attnttncat cctatcacaa gacncgtnta acctntaacc 360
gtnaacaana tgnaatcgnt gtataaaaac aatnnctgtg nttaataggt gactgactac 420
agtagccttt naggagtcca nagncactta ttcagcctga tctttccaca tacactacat 480
tgnattgtnt aanattcnta naaattactg cgcnatctan ngctttaanc ctnatgtagt 540
gactgntgct atatctggaa gtatctntaa anagtttgct gggnnttnct cactgcttaa 600
tcntactaga cntatncatc tgcctatcnt atcacttngc cnnnatgatt actgcaccgg 660
tntacgaaaa atnccattan tgattaaact tttaaaggnc aangaccata tntnnng 717

<210> 4873
<211> 1194
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1194)
<223> n = A,T,C or G

<400> 4873
cccccacnnn acncaacacn cancaccnan ncncnannnn ncancaaaaa aaaanccanc 60
ccanaaacac cancccccaac acncaaacaa ncccncccac cancennaan gggcccncac 120
cancctgtca agcnaacgac ccacnacnaa gcngccgaga agctncaccn nacacccaaa 180
ccncatacag ngggcngggc aagcngggnn cncatnggga nggggaaggg ngcccggcgc 240
ctanccnncn nccnggnnnc nacaggngna ccanatnggn ccanccccca nacnaccang 300
tacccannen nncacgnnaa caccnnnnca anacaccncc catcnaangc anaaccgacc 360
anangnacct accnaancan acccnccana gccnacncna gcnncacacc caaccccccc 420
annenanggnc accnacngca aagncccnct cgcnnngatc accancantn ncnaatacan 480
cacnancnac cacnccncaa anacnaacgc ttancccean cgaccccana cnaaagaccc 540
ananagcaca cacntggnaa naaananacn cancgccccc cnannecccaa naangcgcnc 600
nccaacacan cnaaccccan ncacccnnaa acccncannn cacnggcgac annnggaana 660
cncccccantc cccacnnnca canacnaanc ncnanacacg nnaacncncg ancnnacccn 720
naaanaacan annnnnngca nnnanaaaac cccnangncn tacnngcaca cactcnccan 780
accagntnnc acncaaacgc ncacnaccac ncaccncccc acnacaccna cgcnccncna 840
cccacccccc accganacna gcccaaacgn nccanncacn ccaangnaca nnccaagcgn 900
cacaccncac acgacncana cccnccnnna cactaacncn acnnnnnaca cnnnnccacc 960
cacanagcac canacncnnc canccnagaa ccacaccnna acnacnnanc tnncctcncc 1020
annengccnn nntnnccgct cgcanaaacn nancccncca acacaaancc naacacaaca 1080
cntnccccen tnaananaca ccacnnnaac tccannanan aancaacnnc nnccaccanc 1140
aancaacacn cacnacanta cagacncctt anannancnc cnccacaacc nccg 1194

<210> 4874
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4874
ggtttttnat cacagctact tgttcttttt gcaggatccc atcgattnga attcggcacg 60
aggtactttg agtgtttggg ggttcaacac acacatgcaa ttttgcttaa caaaagtgnn 120
ntataataca gtttcataca gaattacctt aaaagggagt cttatgtttt caactacaga 180

tagttgtaag ggatcataca gaagatattg atgatagttg aaatattctt agaaggggtg 240
tgtatgtcta gctgtgtcta ccatgtgtat gtattcttga caagcantat naaatacctg 300
tgatntttct ttacattacg gataatgcat aaggaattaa tcttcatata tattatcatc 360
cctaatgtag cangggaag tatttaatng cccatgatat gtatnttact tatactatgc 420
caganaggaa actntannnt cattacacnt gtannctngg gttnntcaca tatgtacgtn 480
ttcattnnna gtaggtngaa gatganacta aatatttnca tgaatngaat ncctgatggg 540
atagcctcaa taagtattta aaagccngtn ttctaaaaat aataaagggt aggggtcatt 600
tttgacttnt gttgatcttt tgctattgnt aatattnaac aatnnangtg ttacatttgg 660
tacctggnag ncnnnaatgc catnnattgn nnaacancct gaggatgntg aacaagncn 719

<210> 4875
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4875
ggtttttnat cacagctact tgttcttttt gcaggatccc atcgattnga attcggcacg 60
aggtactttg agtgtttggg ggttcaacac acacatgcaa ttttgcttaa caaaagtgnn 120
ntataataca gtttcataca gaattacctt aaaagggagt cttatgtttt caactacaga 180
tagttgtaag ggatcataca gaagatattg atgatagttg aaatattctt agaaggggtg 240
tgtatgtcta gctgtgtcta ccatgtgtat gtattcttga caagcantat naaatacctg 300
tgatntttct ttacattacg gataatgcat aaggaattaa tcttcatata tattatcatc 360
cctaatgtag cangggaag tatttaatng cccatgatat gtatnttact tatactatgc 420
caganaggaa actntannnt cattacacnt gtannctngg gttnntcaca tatgtacgtn 480
ttcattnnna gtaggtngaa gatganacta aatatttnca tgaatngaat ncctgatggg 540
atagcctcaa taagtattta aaagccngtn ttctaaaaat aataaagggt aggggtcatt 600
tttgacttnt gttgatcttt tgctattgnt aatattnaac aatnnangtg ttacatttgg 660
tacctggnag ncnnnaatgc catnnattgn nnaacancct gaggatgntg aacaagncn 719

<210> 4876
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4876
ttgaancttt aatntnnacc cctttggaac ttnttgcagg atcccatcga ttcgtgtaga 60
ggaggtgagg aaatacttta atgtgttgga aaccatgggt ttgaacagaa gatacgcata 120
tggagtgggg aatggaaaga aaactttgtg ctacatttac tgtaaattat atcttattga 180
ttcagtaaat tcaggtggaa tacggaagtt caaatttaaa gattacccat ggactcctga 240
cctcaggtga tccacccgcc tcagcctccc agtgggctgg gattacaggt gtgagccacc 300
atgcccagcc tcatcattct tattaactgg tttaatcctt tcaataatcc tattaagtag 360
aattattagg taattagaat taggttaaaa agagctgagg tgtgggtgtt cgtttctcag 420
gtaaaacatg gctaaaagct tacggagtaa gtggaaaaga aagatgcgtg ctgaaaagag 480
aaaaaagaat gccccaaagg aggccagcag gcttaaaagt attctcaaac tagacggtga 540
tgttttaatg aaagatgttc aagagatagc aactgtggtg gtcccaaaca ttgccaagag 600
aaaatgcaat gtgaggtaaa agatgaaaaa gatgacatga aaatggagac tgatctaaga 660

gaaacaaaaa gactcttnta gaccacatgg cagtcccata tggatgacca agcaagaaaa 720
gctgcggcaa gcagagaaaa naagggaaac caacaaacat n 761

<210> 4877
<211> 687
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(687)
<223> n = A,T,C or G

<400> 4877
agacaagcta cttgttcttt ttgcaggatc ccatcgattc gaattcggca cgagtattgg 60
tttgtagaaa tgctactgat ttttgtacgt taatttttgt atcctgaaac tttactaacg 120
tcatttatca ggtcttttgg agggattgtt agggtttttt taggtttaga atcatattgt 180
gagtgaacag agataatttg acttcctctt tttctattta gatgcctttt gtttcttttt 240
cttgcccgat tgctctgggt aggacttcag tactatgntg aatagaggtg gtgagagtgg 300
gcatccttgt cttgttctta ggggggatgc tttcaccttt gcccattcag tatgatattg 360
gctgngggtn tgtcatagat ggctcttatt atnntgagag gtatgtcnct tcantgccta 420
gttagttgag gatttttatc atgaagggat attggacttt atcaaatgct tttctacatg 480
tattgagatg atcatatggc cntgggntta atctggnnta tgtgctaaac ctattcccan 540
atcaaaanaa angatttctn ctaacacatt ctacgaacca gttcacctga accaaatctg 600
caaggcncac ancnatnata aaaaaaaatc gctntaaact tnnggnnata ctaaaccaac 660
tganagnnct gatnagttgn cacccnt 687

<210> 4878
<211> 724
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

<400> 4878
gnangctact tgttcttttt gcaggatccc atcgattcga attcggcacg aggaggggag 60
agaggagggc cattacaact ctgccttcaa gactcatctc ttaaaaacaa aacgaaacaa 120
aactacaacc accatcaaaa ccacacgcaa aaaaaaaaaa aggataactt taaccgaagg 180
aagggtttgg ttccattcaa ctccacattc attgtgcctt tacttgcatt agatttctgt 240
gctttcttcc tttccctctt tgaagcaatt aaaatcttcc ttgataactg ctgtttcttt 300
ctactcttgt ttctggcaat ttagtgggtt ccttctctag tggtcttaaa tctcattcca 360
ctggtggcaa gatggggcct anccttcttt tcacatgtct aatcttttcc tttctcatgg 420
tgccctccat ggaagtcaca gtnaacactg aataaatgac tagaatgaca cgtgtgcgtg 480
ccgcacgcgt gtgcntgtgt gtgttcatct gtctgcatgt gggatcaatt tcttttagaa 540
aataatttat tgnatgattt attttgggag ttatattctg attacagngc tccttnttcc 600
aaatagcatt gatttttccc ccttnaaagn ataatctggt ctcaggttgg atctttngga 660
catntctctc tctggatgcc atgcagttaa ttaaaacctt gcttaaaaca aaaanaaaaa 720
aaat 724

<210> 4879
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(925)
<223> n = A,T,C or G

<400> 4879
tnnnnannnn ntnnnnnnnn tnnnnnnngg ggnnnnnnnt nggntttana ctcgggaacg 60
tttctnagca ggnngccatc gnnncgaatg cggcacnngg nggtanccga attcggcacg 120
agggggacaa ggctataaat atcattaata ccaggttcag gagtttgcac tgcactaaaa 180
atcaactcag ctatttgagc acctttttata gagtggaaat ggggttgggc agtaganaag 240
agcactttta gagaggcttt tntgcagnag ncaggggtta cacctgttaa ccagccataa 300
ttttttttt aagcggctgt gctgaggatg agccccatgt agttggtgca ggtggggaca 360
cactgtctgt gtaactagaa aaactaggca tggccgggca cggtggctna cacctntnat 420
tccagcactt tgggaggtca agggggggagg aacacttgag gccngagaca atataatata 480
taatataata tattggccag ccttggacaa tataaataaa gagccctntc tgtaccaatt 540
taaaaaacta aaaagcctng gggtgggngg gnacaatacn ctgtagtcct tggcttanct 600
ttggggaang cttgngggca aggtggnatt tgctttggaa ncctacggan tttcaattgc 660
ctgtnaagtg gaagcctntg ggaatcgttg cccncttgnn atttccnacc ctggggttng 720
ggaggaaaaa aacccttntt tntacaccac cncncncccc cccaaaaana anttggccca 780
aatgtggctn tnantaaaag gggaannccg aaataggggn ttcttngtan ttaanggngg 840
caaaaaaggg ggggnggntc ctgnggaaaa aaaaggccca ccccttttng tgttggnggt 900
ngggaaaaan tttnaaaanc ncnct 925

<210> 4880
<211> 1170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1170)
<223> n = A,T,C or G

<400> 4880
ccnannncna nccnnanncc naanngannn accnnnnnnn cnacnacnnn ancngncnac 60
ncnnacnacn cncgcccann nacncnacnn aanancnnnc gcnnannnan ccncnnnncc 120
nncnacactc nnnccnnncn anngnncacc cnnnncnnnn nnncnacncn ananncccnc 180
acnancccca naacnccngc nntggcannt ttnaaatcaa ancncttggg nnaacnncca 240
naannctncn accaccaccg ananncgnac ncacngcccg nnnnagcncc agnnnccnca 300
acncncnatc ccntncgcnc gaacnnnnta nccngggggg ngggggcggg ggcangggng 360
aancgnngnc cancccgccc acnccnaccn acacnnnccc anacccancn ccnnnacnnc 420
aancccncnc ccatacnnca naccganccc nnannnccna cgcaccncca cnngacccgn 480
aancnnaaac acacacncac accccgaccn cnnacaanac cncncacnca nncnnnccnc 540
nacaaaaccc acaccgccnc ccncaanccn ncnnncaccc nacgaccacc caacacnccc 600
aaccgcncna ancccncacc acnncnccac cncccaccnc gacnnananc ncnnncncca 660
ncacgccnan accaccnaan nnccccnccc cncccccaacc aaccnaannn cacancagnn 720
ancnacnnan ncancccccan cccccataaa ccnaccacac ctanncancc cagacnannc 780
aacgnccnnn ccctacaccg annncnnnna ncnanannac antncnacan ccacaccaat 840
nccgcagcag acatcgcana cacncagccc ncanacacna nccnnaccac caanacntna 900
cnnacacaca cnaacncnan aacnatntnc cacgcncaca nnacaantcn atcncccccac 960
gnacnnctca nncacancga ncaatacana ncacganaca cancnacgan nnccanacnc 1020
caacncgcga cngncacaca caccacncnc ancncacgac nctannanac ncacanacan 1080
ncctccanaa cagnacncng cncncacagc accacacgat nacacngnag cacagacnca 1140
acncgcgaca naatnncaca cacnnacgcc 1170

<210> 4881

<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4881
gnntttnaan nttttaaatt tatacanctt nttgttcttt ttgcaggatc ccatcgattc 60
gaattcggca cgagggtaga ctggctaggg atcctggacc cagggttcca cgtagcaaca 120
cctgctgagt tctctgggtt ttcttcctgc ctcatgtagc ccagacttgg agctgaagaa 180
gctggaaaca tggaaacacc aacagctaca gaccaaaaaa agtcccaaca aaggcctgtc 240
agtctgccag cctgttctgt ggatttccaa ctcaagatgg cagcatcaac tcacacctga 300
agttctggct tccctacaaa ctttgaactt gccagtcccc acaatggcat aagccaattc 360
cttaaaatga atgtctagtt ctagataatg tgtgtattct actggttctg tttctctgga 420
gaagcctact aatagatcat ttgtcttaat caattcaagc tactgttaca gattaccata 480
gactgggtgg ttaaaactac aaatacttat tactcacagt tttggagtct ggaagtctga 540
gatcangttt ccagcaggat tgagttcttg gtgaacatcc tcttcctggt ctacagagta 600
ctgngttact taagtggaaa aagtagggtg agctggttct tttggcctct tcttttangg 660
gactaattca tgagggctnc accctcatga cctatttacc ttccaaaggc tccatctcca 720
aataccatca caatggggga ttagaattca acataggagt tttgggagga cacaaacatt 780
tagtccttac ancca 795

<210> 4882
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4882
ttcaaaccag cttttganct tnttgcagga tcccatcgat tcgnntcaaa canagnattg 60
tgatattgtc aaagagaaaa acnaatcctg aagatacatg gaaatgtaac ctagtttagg 120
gtgggtattt ttctgaagat acatcaatac ctgacctttt ttaaaaaaat aattttaaaa 180
cagcatactg tgaggaagaa cagtattgac atacccacat cccancatgt gtaccctgcc 240
agttcttta gggatttttc ctccaaagag atttggattt ggttttggta aaaggggtta 300
aattgtgctt ccaggcaaga actttgcctt atcataaaca ggaaatgaaa aagggaaggg 360
ctgtcaggat gggataattt gggaggcttc tcattctggc ttctatttct atgtgagtac 420
cagcatatag agtgttttaa aaacagatac atgtcatata atttatctgc acagacttag 480
accttcagga aacatangtt aagccccctt ttacaaagaa aaagtnaaca tacttcagca 540
tcttggaggg tagtttcaaa actcaagttt catgtttcaa tgccaagttc ttattttaaa 600
aaataaaatc tacttataan aagaaaaggt gcattnctta aaaaaaaaac ctttaaanga 660
aaatgaaaga agaacccttt tncangatac ttactttgan gactgttttc ccctttttna 720
tgagatatag cttaganatc ggcgnggggn atttctttan taatnctctg ggttttggat 780
ctggccttg 789

<210> 4883
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 4883
tcnctntcat ctnaacnctt tgcaattncc ctttttgcag gatcccatcg attcgcccag 60
ggccgnctgc ctgagcctnt ctgcagctgc tcacnttttg ctgaggcctc tgccttcaga 120
gctagtgggg cctgctcaca cattccagcn gttncctctn tatttgncct gaaccaagtt 180
gtagaattta aaggaggtga agnaaggcga ttnctatgga aaatatattg nncttcttta 240
ctcctcatgc tnagtgcata anaatntatt atntcccctg aatgttcaaa gtggtgtgtg 300
tgtgtgtgta aaagaaccag gagcaaacaa tcttaatagg aatgtgcgat cttgcgccta 360
tctttagcac acttaattag ctacaacccg ggactgtngc catttgaaca aattgntaac 420
aaaatctgcc atgttttgct ctttttcaaa aggaangact cnaataacca tagcaacact 480
tactcagntt tgtgatccac tccaagatta tgggagcaag aacagatact cctgaaagca 540
accctcacct cctnccccgc cccctgccct cagcaagtcc tggcctgtgt gaactgaagg 600
gtttggaagc tctggtttct aggagtgccc agaagcttga aagactaggg tgtactagtt 660
attgangggc agttgtcant ggcagtgtgg gggcacccca attngtattc canggcactg 720
cattgctttt tt 732

<210> 4884
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4884
gantggtcga actnaaccct ttggaaantc cctttntgca ggatcccatc gattcgaatt 60
cggcacgagg gccactccgc ctcttccctc ccttcntttt ttcttcctct ccctttttc 120
cttcttcctt cccctcctcg ccgccaccgc ccaggaccgc cggccggggg acgagctcgg 180
agcagcagcc aggtagaact ttagacttca tagcactgaa ttaacctgca ctgaaagctg 240
tttacctgca tttgttcact tttgttgaaa gtgaccatgt ctcaagttca agtgcaagtt 300
cagaacccat ctgctgctct ctcagggagc caaatactga acaagaacca gtctcttctc 360
tcacagcctt tgatgagtat tccttctact actagctctc tgccctctga aaatgcaggt 420
agacccattc aaaactctgn tttaccctct gcatctatta catccnacca gtgcagntgc 480
agaaagcata aaccctactg tagaactaaa tgcctgggca tgaaacttgg aaaaaaacca 540
aatgtntaag ccntgttgaa ccttactctc gggatgcagn ccacctataa ctaccaaaca 600
tggagnangg aaggaggttt aaatcccccn agggnnactt ttnncccant ttctaantcg 660
cnancctttn cncttnnaaa nggngatncn tntangcgng nnggccagca natntcannt 720
gnantaggnn nancccnncn tcctngcnga ngaacnnncn cnactcccg 769

<210> 4885
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4885

gtcttgtcct cnnaaaccct ttgcacttcc tctttttgca ggatccctcg attcgaattc 60
ggcacgagag agggtggggt ctggccacat aggtnnctct gtggctctgg tctggggtta 120
gacactgtta gggactagca tttattggac ttgtaaagac agcacctcag aattagtaac 180
tacttgcatt ttanggtctg ttntatgaan ccaacaagtg aatgtaaaat aggctctgca 240
tcttttctga gagccctgtc actgggcagt gagcatttcc aaaattgcag ctctgtcana 300
atgaaccatg aatacttaag aaagggaaag taggaacagg gagcagagca aagcataact 360
tgctgtgttc cagggattta aaaataaatt actgtcaaga gcaatataag ggtcatgggt 420
ttgatcanga actttttgta aatgaaaaag ttcacaattn ggaaaaaaca gtgctagatg 480
tgttatggaa attgttatca caaattattc cactgaaact caagtatata anacaacaat 540
atattgctgn gaaatcttan ttntgacata tggaaggtaa ccaanaataa naaccatacc 600
tttttgcttg aagtgcacgg tggtaccaat ttctaaaatt agaaacattt aagccaaaan 660
atantnaacn ncantacccc ctcntngaaa naaaaaancc tcgnaccntt ttgaacttt 719

<210> 4886
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4886
agnaggnntt tcagaaagct ggnnnaggna gcnggnagan gcnttgaagg cccttgctaa 60
tngcttggaa agctccatct anagagnngg anggtnggga gcncgnnaaa catgcngnaa 120
canctctagg aagtgngaat ctgatacaag ctganatgtt gnntnatgga nangatcnca 180
cngaatggat tgctgtgaac acngtgnatn ncnngaacca gatnaanatg tnatatggaa 240
cnattacanc antntgcact gaagcaagct ggccaagcan gnctgcatgn ccgaanattg 300
aatatnactg ggcanatggn actaanatta aaaagccana nnaantgnnc tgcaccaaca 360
tacatntgac tannnggatg acttgggttc aacgancagn cntgatagat gaaacccncg 420
tttccttnta agattggtgt nccatntncc caaaaacttt atnnctgtgg caganactat 480
ncntaaaagc gncttgnnna gggtttnaan gccnntanna atcaccangc nctantgatt 540
cngtgatgcc atctgccaac taggaggcnc anctnaacnn ctacnttaag cactnnattc 600
nncnttgntt cagggnnttt aancnagntt tgataaggcn tgaanctggg cacctctnca 660
agaattagta canaaacttg gatnncaaga ccnnatnaan ggncantcta ngaacacagn 720
ntccncccnn gcttaatnca ttggtagaac canctcaatn gntatccngt nantgnacna 780
ctn 783

<210> 4887
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 4887
gnnngnnnnn nnngnnnnan tnnnnggnnn tttgcnaata nacaggctac ttgttctttt 60
tgcaggatcc catcgattcg aattnggcnc gagctcngac cttatnanca gcatnacgca 120
tgactaccac ctgnatganc aggatgctga gggccggctg gtacgctgga tcattcncat 180
tagtncccga aagagccgtg cttggcnaca gactccgagg gtcgttcaac tnggctgctg 240
tcccaaacgc tgctgaccct gacagtggcc atganaccat ggngggctca ggtcttactc 300
agnatgagct gacagtgcan atctccnagg agacgactgc agatgccatc gcccgnaagc 360

tgaggcctta tggagctcca gggtacccag caaagccatg actcatcctt tcanggcacc 420
gacacagact cgtctggggg cacccttgct ncaagtgtac tgataaccnc tgacaggccc 480
atctggcaca ccctttctgg gagaagcatg gcctacagaa tgaacagggg gaccaggaac 540
ccctgtggga naggcttaaa cctgancagt gcccactctg gntcctcntg ncttggctga 600
ctggnttctg gaccatgtgc atttcactgg nccatgggat ctacatctct tgcatnccca 660
nctggctgat cctgccangg nccgttncnt cctgctcatg gncttnaggn ngnctgatca 720
tngaaagg 728

<210> 4888
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 4888
tttgttggcn ncntagtnan nnngganana cntcntngct ctanaagaat tgggttggtn 60
cngcacgang agatgtgtcc agtgccccnt gtggngtgtg antagaaacn cctgnggnnn 120
aagtgactnn gtnggnccnn ctggcttcgt gcangangnc tcgtnactgn atacgacccn 180
gccacngtgt tctnaangac annnccanan atgggttana ntcnctgctg tgggagtctt 240
tantcccaca cncnggacan gctggtnanc tncactgtnc nngatgatgc acacccngac 300
cnatnacgtc angacgatnc nnntcncgac anntatggtg aagatncctn ccgtggtccn 360
attcttnctg nacntnctgn gnccatgacg ctcacntngc tgtngagctc gntccgtgcc 420
cangtgttgn acatntaaca gatncnacac tgtcttacaa ngggaccacc nangattngg 480
gtctctacaa nagancnnac nntgatcctt aattattctn agggcctncc gttgnttttg 540
gctctgcctg gnnttntagg ncaacgggac aatccaaccn tnnccntttg annancctta 600
tgaacaattt ntgnncttca naattnnnta ngccntttng nagnaataac cnttttancc 660
tnattttgac ctgganttna ttccnnccaa tgccttcgga agntggncct ttnncacnaa 720
ggggaccagg tggaaanccc tcttgatttg gaccaaaaaa ggccccnctt ggcttnatct 780
cccttaaact ngatnncncg tgcnnncg 808

<210> 4889
<211> 727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 4889
tncttaantg gcttggcnac tngttctttc tncaggnagc ccatgcgatt cgaattcggc 60
acgtaggtca gacatgaaaa ctattttaaa gctgactttg ntgccttatc ttgaaaagaa 120
tctagatagg tgcttttaac tggggtatta actttttttag aatgacacag ntgaacagtg 180
ttaataatag tgtgtcaaga ttgcaaagtc gacatactca tttggtttaa gcaggaatcc 240
tagaagcaaa tggatgggga taagaatagg tcattttcta ttcaccatcc tttactatta 300
anggaaagga aaagaacact agctaaggaa gggaaaggga agtgatctca taaaagtagc 360
ancottcatt ttacattctg tctgttgttc ttttcctgct ttgccagnnt gtgctaattt 420
gggaattgtg tactccnaaa caagtagaaa agtgctgctg agggattnta ttaaatcttt 480
ttntaatgga atgtggcnca aattgttcat gttaccaaag cnatatttnc ntgggaatct 540
aattcaaagt tngtggnata caacctgagc cttttcttat ntaacacaag aatatgttca 600
catcttggta tgnggccata tttatngaat gctgaactcn attgtgcaag ttgtnctgga 660

tgcngtttgt aaataactga aaataatttg gntgaccttt ttattcaatt ctgnatagan 720
nttaaaa 727

<210> 4890
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 4890
ttnctactaa ttgcttggct acttgttctt tttgcaggat cccatcgatt cgaattcggc 60
acgagcntng cttttcttgn nancagcagt ttttcngnac anatttgctt tntnttacaa 120
aaagannacn naaatgctgt tgtnttaaca tttcagaaca ganattgtgt tgatgtgatc 180
agtgtttggg ggttaacttt gcgttaattc ctcaggcttt gcnatttaag gaggagctgc 240
cttagaaann aaataaaggc cttattctgc aatantngga ntgaaccaat attctataga 300
acatataggt acagctgata tcgtgtatat nttccttana gaatagctga acaccttgag 360
ccttaanacg gagctgntgg gaaacattan gcactctttt atgcgtttac tcctgcctnt 420
gcttggcact gcantcttaa ganagattca aaaggctgcn aangaganga aatctgttcn 480
nggaatgttt cacnggccna taagatgcnc naanactctg tnctcngatg tntgcctggg 540
cccnatgtgn aaggnaggat gcctgctcgt tcttgcncct ntgcctctna gnacacnatc 600
agtnnnccct tcaagacntt ccacttgnnt aanatattta tnnatgncan gganaaggct 660
ttaantnnat nnggacaaat aatgctttag ttttntttcc caaattaggc ccttntttaa 720
aaacaaggtt ggntgnannn tccctcna 748

<210> 4891
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 4891
ctncttaang gcttggcann tcnttttngc ncgcanncca angngnntgg gagccactgc 60
gcccggccaa ngacactttc aaatactcat gatnggatat gcctctgtga ttgacagtga 120
gcatttcaaa tgggttaaag attgctctgc aaagaggtta actgtngaga ttgatacagg 180
ctatcttcaa catatgtaca ttgctgtata tgacatttac ctaccattgt gcatctggga 240
cttcctgatg gaccacagga attccctttt cttcccattc tcttccagat ctttcttcta 300
cttgaaaccc cttatctaca aaaatgaata aacaacccaa tctcatttct gatcgngtcc 360
tggaattgat ctaaggcaan gtctggagaa gtggtgggag acagcanaca gctttngtta 420
agtcttctaa ccccagcact ttctcagcct catctgngng ttcctgtctc actctgcaga 480
cctcacttna caatgctctt cagatccttt aatgaatagg aaattgattt tgggtatttc 540
tatnaaatac agcagagtct tagaaacttg cagtggcctt nanangaaag aaccccttct 600
taactncctg gccagattna tctttctttt atgggntcna acactaactg ggaantttтn 660
cccatgggan ggtatttgng cctttcagac tggctttttg nngaactggn tttggaggga 720
cataaaccgt aggactggtn atantttn 748

<210> 4892
<211> 714
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(714)
<223> n = A,T,C or G

<400> 4892
ttgncnnctt aatggctngg ctacttgttc tttttgcagg atcccatcga ttcgaattcg 60
gcacgaggtc tcataaccnt nttngacanc aataannnna cgncnagaac cttnnnnaan 120
tcggnnaatc tgnccatacn ccacacggan ctaatctngt ncnngacatt anancttnaa 180
ngcatgcgag tttnctaana aggcngttnt ctttccaaag tggtngccaa ntttatnact 240
tatgtgnana attgnttncn gatgactgcc anaaggcttt tnaagatcta nngctgtgna 300
ggaagttntn taagaaaatn gctgnacnan ttgctanata nttgtnngcc atatntnatn 360
antgtaccan ttgatacttg gctgtncctt ctataangca tagtgagaan ttncnctanc 420
gantttnnta aatgctnttc nggtnacatt gccaagaatn tgttgcnnca naatgnntaa 480
taattntacn ngatngaacg tctacctagg cttaggactc aagctnnatg gaatgctgtg 540
tagnacacat ttgtaaccgn gnccgacatg gaaatngtgg gnaaacngan ntttcctgng 600
aaananaact caggttttac tttngcaggn gcantncnnn atnttntcnn ccctacaact 660
gtgtgagcgn agntnccttt ntcncacttg tgggatacnt ggntaanncg gcca 714

<210> 4893
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4893
agngnntnnn nggttctncn tctcctngna aacccttaat ggcttggcta cttgttcttn 60
ntgcaggcag cccatcgctt cnaatncggc acgagcntat gtnatgctnt cacctcccct 120
gtgtaggaaa gacctttaac taccagctgg tagtngtctc ancattcttc aaatagtccg 180
gtcttgttta atattattat tattatngtt atttaatttt attntattgc aactgtactt 240
agagaatagt ctggtcttga gacctttca ctgnggtctg ntctggtgta cggctcccac 300
cagtgtgaag cagaaggatg actttgctct gttgtcagga caaccttgaa ggaaggagcc 360
aaatgtgtgg aggtctgtgg gaagagagag ccacctagca tgtccccact gaaccagtca 420
gcaagaaggc cttccccagg aggcctccaa cagatccctg aatgccacat aaacctcana 480
ggcttggnga tcccaggacc ctccaggcgc tcaagatctc cctttgccgt ggtcctttcc 540
gtcatcacac tggccacagt cctctccaat gcctntgtac tcaccaccat cttaactcac 600
caggaaagct tcacacccct gncaactacc tgattggctt nccttggcca ccaccgaccn 660
cttgggtttt ccatcttggg taatgcccca tcangcattt gccttattcc catttaaccc 720
aacannctgg gaacttttgc caaaatcttg nngtgaacaa tttggctggc ctcngacn 778

<210> 4894
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 4894
gncaggctct tgttcttttt gcaggatccc atcgattcgc tagactgcta tgantagtga 60
tgancancat ctcagnctgc caagggagaa catgantccn catgaacaaa ntnggttccc 120
tgancagggg gaaatgnaat gctgagactc acancaggng gtgcgncnta nngacctntn 180
nctgnannga nanantgnag gccacnatac actngatgan nnaatggact nnctcttnaa 240
agtgctggna ntgctnctgc cataantata gtanatatna canttgccnt ggtccnnctt 300
ctacctnaga atgctgtgtc ttacgctctg tcttcccana tctcccanna nttgggaann 360
tctgaggtca gagggcaaaa ngagaacctt ttaattctga ntctgacata atcagatctg 420
gaaccagttg nnaagctgta anacttatgc angcgtaagg tggttggtgg tttaagccnt 480
atgntagctg tggntntcta aaanantntg aatntatctc tgtcatagng tttgacctgc 540
atttgctaan ngngtcnnta anggatgtgg ngannntggn anttncccca tgcattccna 600
gngtctnggc cnntanaaac cnggnccaat tgaagttcaa cntttaactt tnggcctgta 660
naggaccatt tggccatngg tgnccttgtt taaagggaac gaatnttgng aatncgatta 720
agccatttnt aatttccctn nttggccttn aatcccccnt ggaattcttt nncngggaac 780
ccctttt 787

<210> 4895
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(863)
<223> n = A,T,C or G

<400> 4895
nngtccncct ttncaannnc tngganaccc gttctttctc nanacannaa gntctnatgc 60
tgnggcacga ggtctcnagt ttttttttntt tgntngtnga nacaggctcg ctctgncgcc 120
cangctggag tgcannggcg cantctcggn tcactgcanc ctccacctcc cgggttcacg 180
ccattctcct gcctaancct cccgagtagc tgggattacg gccgcccncc accactcccg 240
gctaattttn cggatttttt agtngataca gggnttcacc gtgttagcca agnatggtct 300
cgatctcctg accttntgga tccacccacc taggccttcc aaantgctgg gattacaggc 360
ctganccact tgcgcccggc acattcaggt tcttatcaan gaaataaccc agactttaat 420
cttgaatgat acnattatgc cccaatgttt aagntnanaa aaatttcctt aaaaaggtta 480
tctttaaaat nagnatcttt anngcnaaaa tacccaagct tgatggaaag gccatcttgg 540
atgcccttnc attcttgtnt caattccatc ttcccaaana nccaggttcn aaantaaccc 600
cctttnttgg ttggggcnat atgnaaattt tttaaaggga gttnaattcc aanatggatt 660
nnaaaccaga ctgccntgaa ttgganaaat tnntgatttc cttcaaaatt gtggtttcnt 720
ttctaaantt ggctggnccc ttaatttgga ttaatttaaa tccatgntat tattgattaa 780
atctngangc angatgaaac tttaccagtn ttggaaatta attactaant taatcncnaa 840
tatntnnaan tttttccttg atc 863

<210> 4896
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(723)
<223> n = A,T,C or G

<400> 4896
ttnttnnttt caaatttcaa atnctaggct actngttctt tttgcaggat cccatcgatt 60
cggtggaact gagtgccact cgtaagaatg ccagcaacat ggagtacagg atcaataagc 120

cgagagctga ggattcaggc gaataccact gcgtatatca ctttgtcagc gctcctaaag 180
caaacgccac cattgaagtg aaagccgctc ctgacatcac tggccataaa cggagtgaga 240
acaagaatga agggcaggat gccactatgt attgcaagtc agttggctac ccccacccag 300
actggatatg gcgcaagaag gagaacggga tgcccatgga cattgtcaat acctctggcc 360
gcttcttcat catcaacaag gaaaattaca ctgagttgaa cattgtgaac ctgcagatca 420
cggaagaccc tggcgagtat gaatgtaatg ccaccaacgc cattggctcc gcctctgttg 480
tcactgtcct cagggtgcgg agccacctgg ccccactctg gcctttcttg ggaattctgg 540
ctgaaattat catccttgng gtgatcattg ttgtgtatga gaagaggaag aggccagatg 600
aggttcctga cgatgatgaa ccagctggac caatgaaaac caactctacc aacaatcaca 660
aagataaaaa cttgcgccca tagaaacaca aattaagtac tgcttacaat atctttangn 720
tcc 723

<210> 4897
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

<400> 4897
gtttannacc agctcttgnt cnttctgcan gancgatncc atcnatnnnn attccgnncn 60
agggggctga ngcgnccgag gacagctcgc gatgagnggn cnacgaaggc tcntctgnac 120
tggnnncann gtnnanngnn ctnnctcngn gtatncngtt cncannctna ncgatncatg 180
tnctntactt gatcnggata naactgtatn agaaccaang nacttnncan nngctactga 240
ccntncccat gtncnnctgc acgtagttgg atagatanca ctaccnntna ccagntcgat 300
gaacccgatn ngtcctgcag ctggtncana ctgtctgngc anctnncnnc ttgcagttgn 360
accttnnggn ccttgttaat gncactacca ntgtgctgtc cttatgccat ggatgttgnt 420
cccagatctg tactaacnnc tnccaggaca tggccaattt gggtagcccc tnantgnaga 480
tgnnctgacn ntganatcac tgatnactan atggggctca ncgtgattta catgccactc 540
ttggtnatat ggtcttantn gatgnnanct ngatgntgnn caaccttntg gaatgaccta 600
natgagctgg anccatgaaa ganattgncn caagcattnc ccnntgacgg ngantatggg 660
ctnantnccc ttattactat tnccttngtg gacttnttan taanattctg caaagctcan 720
gtccaaattg natnaccttt ngnaggcann accnttcatg gntnttgtgn t 771

<210> 4898
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 4898
gnttnttnnt ttnaaatctc angctacttg ttctttttgc aggatcccat cgattcgaat 60
tcggcacgag actgctcctt cattcccaag aagaaaagac aagtactgct acttccaaaa 120
ctcagacacg acttgaaggt gaagtgactc ctaattcctt gtcaaccagc tacaagacag 180
tgtcattgcc attaagctct ccaaacataa agctgaatct cactagccct aaaaggggtc 240
agaaaagaga agaagggtgg aaagaagttg tacgaaggtc aaagaaattg tctgttccag 300
cctcagtggt gtcgaggata atgggaagag gaggatgcaa catcactgca atacaggatg 360
ttactggtgc ccatattgat gtggataaac aaaaagataa gaatggcgag agaatgatca 420
caataagggg tggcacagaa tcaacaagat atgcagttca actaatcaat gcactcattc 480

aagatcctgc taaggaactg gaagacttga ttcctaaaaa tcatatcaag aacacctgcc 540
agcaccaaat caattcatgc taacttctca tctggagtan gtacccacag cagctttcag 600
ttaaaatgca tttnctttgg gtgctccaac tctttgnaac tttacangng aacaaccgtt 660
ttctacngtt tcaancccnt ttattaaacc tttatnagga atgttcttaa aaaaaaaaaa 720
aanaaaaacn nt 732

<210> 4899
<211> 751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 4899
nggagggntn nnnnntnata gacagctact tgttcttttt gcaggatccc atcgattcga 60
atncggcncg agcctgtgtg gggtgcgngt acattgcana cgctctagng acctgttgtg 120
atgaactntt ntcnatggag agantcactc nngncntanc ancggnnccg gnggatcaag 180
aganacngtg tancnctcng aggatataac tnnncaagat ntactactga tgcanccnat 240
tntngccttn nacntgnggg cattacacnt gctnntgatg ntagntnnaa atgnnttaac 300
agnanncnnc cnattcatga ctgccgtggg atctaaggga atcaatgcca actgtntacn 360
tntggactct naaagctaat attgtacatg gtctatcagt ccnggaaatn tngcttataa 420
tatnnatgng ncnttttaat gacntntatn nnnnagatcn ctcactttnn cnanagggct 480
ataatgagat tcacgaagtn tgcttacnng agagcanaca tccggtnatn atactgaaan 540
tcctgtggnn atnaaggntt ttgaacactt gcaattattt gaattaattc agcnncctggt 600
aagaactncc aggaagttca cananagant ccattntgtt gaaactgcct ntggatanta 660
ctccantgnt gnatgctctg ntganatctt ccanntgggc taccgattna aggccatggt 720
caagntnctc acttngcagg nctgaattac c 751

<210> 4900
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4900
gtcttgtcct cnnaaaccct ttgcacttcc tctttttgca ggatccctcg attcgaattc 60
ggcacgagag agggtggggt ctggccacat aggtnnctct gtggctctgg tctggggtta 120
gacactgtta gggactagca tttattggac ttgtaaagac agcacctcag aattagtaac 180
tacttgcatt ttanggtctg ttntatgaan ccaacaagtg aatgtaaaat aggctctgca 240
tcttttctga gagccctgtc actgggcagt gagcatttcc aaaattgcag ctctgtcana 300
atgaaccatg aatacttaag aaagggaaag taggaacagg gagcagagca aagcataact 360
tgctgtgttc cagggattta aaaataaatt actgtcaaga gcaatataag ggtcatgggt 420
ttgatcanga actttttgta aatgaaaaag ttcacaattn ggaaaaaaca gtgctagatg 480
tgttatggaa attgttatca caaattattc cactgaaact caagtatata anacaacaat 540
atattgctgn gaaatcttan ttntgacata tggaaggtaa ccaanaataa naaccatacc 600
tttttgcttg aagtgcacgg tggtaccaat ttctaaaatt agaaacattt aagccaaaan 660
atantnaacn ncantacccc ctcntngaaa naaaaaancc tcgnaccntt ttgaacttt 719

<210> 4901

<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(719)
<223> n = A,T,C or G

<400> 4901
gtcttgtcct cnnaaaccct ttgcacttcc tctttttgca ggatccctcg attcgaattc 60
ggcacgagag agggtggggt ctggccacat aggtnnctct gtggctctgg tctggggtta 120
gacactgtta gggactagca tttattggac ttgtaaagac agcacctcag aattagtaac 180
tacttgcatt ttanggtctg ttntatgaan ccaacaagtg aatgtaaaat aggctctgca 240
tcttttctga gagccctgtc actgggcagt gagcatttcc aaaattgcag ctctgtcana 300
atgaaccatg aatacttaag aaagggaaag taggaacagg gagcagagca aagcataact 360
tgctgtgttc cagggattta aaaataaatt actgtcaaga gcaatataag ggtcatgggt 420
ttgatcanga acttttgta aatgaaaaag ttcacaattn ggaaaaaaca gtgctagatg 480
tgttatggaa attgttatca caaattattc cactgaaact caagtatata anacaacaat 540
atattgctgn gaaatcttan ttntgacata tggaaggtaa ccaanaataa naaccatacc 600
tttttgcttg aagtgcacgg tggtaccaat ttctaaaatt agaaacattt aagccaaaan 660
atantnaacn ncantacccc ctcntngaaa naaaaaancc tcgnaccntt ttgaacttt 719

<210> 4902
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4902
tcattcnnnt nctagnnctt ggtgcgganc cntcncttcg nattcggntc naggtcttca 60
ctgntggctg gttcccaagc aggantgncg agctctggtc ctntcaaaac tnaaggtcgg 120
cttgaacntg acntagactc ctaatgcctt gtttgcncna ctacngaacc ntncnataga 180
catcgnnnnn tcngatngtg acacagnctt ngncnatcnn tatacngnnn cngnctntat 240
antaaggntt ntnggantnt ggacgnacgt ngtcnagatg natagactca gactcatctg 300
atgtgatgat aagacagaan tggagngccn gacntgantt gtctgcagga tgngtctgaa 360
ncnnatgtnc ctgtgtgtga tcttaaagat gtgaatgctn tnagncnnat nnccttaatg 420
nntgnnacga gttcgacaag atttgcgatt gacttccana ctntacncnn tgntgntcct 480
gntagatggc tntaaanact tggntctccn atgtggtcat atggagaacc ccttnctgng 540
ncgancnttg ntcangcctn gnctttcnc ctggaagnag gntcccactt tnggcttgcn 600
caattngggc naatggcatt nnccctttg gggngncncc cnancttggt nggttnaacn 660
ttccntaagg gccaanaanc cntttnanct ccccctttnnc ctgcccannt ctcaatccac 720
ctntnaattt cccnaagngg tttntaaaac tntnaaacct tttcnanaaa gcccctnct 779

<210> 4903
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)

<223> n = A,T,C or G

<400> 4903
tcattcnnnt nctagnnctt ggtgcgganc cntcncttcg nattcggntc naggtcttca 60
ctgntggctg gttcccaagc aggantgncg agctctggtc ctntcaaaac tnaaggtcgg 120
cttgaacntg acntagactc ctaatgcctt gtttgcncna ctacngaacc ntncnataga 180
catcgnnnnn tcngatngtg acacagnctt ngncnatcnn tatacngnnn cngnctntat 240
antaaggntt ntnggantnt ggacgnacgt ngtcnagatg natagactca gactcatctg 300
atgtgatgat aagacagaan tggagngccn gacntgantt gtctgcagga tgngtctgaa 360
ncnnatgtnc ctgtgtgtga tcttaaagat gtgaatgctn tnagncnnat nnccttaatg 420
nntgnnacga gttcgacaag atttgcgatt gacttccana ctntacncnn tgntgntcct 480
gntagatggc tntaaanact tggntctccn atgtggtcat atggagaacc ccttnctgng 540
ncgancnttg ntcangcctn gnctttcnc ctggaagnag gntcccactt tnggcttgcn 600
caattngggc naatggcatt nnccctttg gggngncncc cnancttggt nggttnaacn 660
ttccntaagg gccaanaanc cntttnanct ccccttnnc ctgcccannt ctcaatccac 720
ctntnaattt cccnaagngg tttntaaaac tntnaaacct tttcnanaaa gcccctnct 779

<210> 4904
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 4904
tcattcnnnt nctagnnctt ggtgcgganc cntcncttcg nattcggntc naggtcttca 60
ctgntggctg gttcccaagc aggantgncg agctctggtc ctntcaaaac tnaaggtcgg 120
cttgaacntg acntagactc ctaatgcctt gtttgcncna ctacngaacc ntncnataga 180
catcgnnnnn tcngatngtg acacagnctt ngncnatcnn tatacngnnn cngnctntat 240
antaaggntt ntnggantnt ggacgnacgt ngtcnagatg natagactca gactcatctg 300
atgtgatgat aagacagaan tggagngccn gacntgantt gtctgcagga tgngtctgaa 360
ncnnatgtnc ctgtgtgtga tcttaaagat gtgaatgctn tnagncnnat nnccttaatg 420
nntgnnacga gttcgacaag atttgcgatt gacttccana ctntacncnn tgntgntcct 480
gntagatggc tntaaanact tggntctccn atgtggtcat atggagaacc ccttnctgng 540
ncgancnttg ntcangcctn gnctttcnc ctggaagnag gntcccactt tnggcttgcn 600
caattngggc naatggcatt nnccctttg gggngncncc cnancttggt nggttnaacn 660
ttccntaagg gccaanaanc cntttnanct ccccttnnc ctgcccannt ctcaatccac 720
ctntnaattt cccnaagngg tttntaaaac tntnaaacct tttcnanaaa gcccctnct 779

<210> 4905
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(720)
<223> n = A,T,C or G

<400> 4905
ttgcnaactt aatggcttgg gganactngt tctntctcna ggntgccnng cgtttcgcaa 60
aaaggcaaag accaagacca ccaagaagcg ccctcagcgt gcaacatcca atgtgtttgc 120
catgtttgac cagtcacaga ttcaggagtt caaagaggcc ttcaacatga ttgatcagaa 180

cagagatggc ttcatcgaca aggaagattt gcatgatatg cttgcttctc tagggaagaa 240
tcccactgat gcataccttg atgccatgat gaatgaggcc ccagggccca tcaatttcac 300
catgttcctg accatgtttg gtgagaagtt aaatggcaca gatcctgaag atgtcatcag 360
aaacgccttt gcttgctttg atgaanaagc aacaggcacc attcangaag attacctnag 420
agagctgctg acaaccatgg gggatcggtt tacagatnan gaantggatg agctgacaga 480
gaannectat tgacaaaaag gggattcaat ncatcnagtt cacacgcntc ttgaaacttg 540
gagccaanac aaaattactg aaaggaactt agctaaanct ttncanttcc atggcttact 600
ctttttactt nttaaacctt ccccnccttt tanaacntnt gnattncaat taatttaana 660
attttggccn ttttttttg ggggtttntt nccancttt tnccttgnc tttggttaan 720

<210> 4906
<211> 1593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1593)
<223> n = A,T,C or G

<400> 4906
ttttttggna aaaaancccc caaantancc aagggccctt aacctttggg ttttcttttt 60
ttttnggcca ggggggaatc cccccnatnc cggnaatttt cccgggaaaa tttnccgggg 120
gccaaccgga agggaatttn ggttaagncc aaaaggtttt ccaaggccta aattggggng 180
aaatntgggg ctctttcnct catcnanggc actactncnt cgctcntaac aanannannn 240
tatntannтt tntatacctt atcanncaca annnnctcct nctacntacg tatacatntt 300
ataatnnnat ttanctatcc atnctactnc cctcantcnc ttataantac ctntcctact 360
cctacatatn gacncnctga ntnttnnctn anacnaancn ncntntnnna tntnttctct 420
attanttaaa annntccnnc tagtnctttat atantatcan tacttnntct atnaccgatc 480
acntcntaan cnttatcttt cntatntacn ctacnnatnn ccatnattat cgtctnattt 540
ancttntnat ttactacang antgntctat catnctcnna tancnacncn tctnntccat 600
actnncnatt tgacnacngn ancatngttg ttctccntat ncatgntcgt ttnatacann 660
actacattat caatnatntc nctnantatt cnaanntacg cantncncat nnctactcan 720
nnanncnnta cctactnant tctnacnatg tctntgttaa ctatattaac cgtncgnacn 780
tanacatcaa gntnacatac ntanccngan acataccaaa ncnatannta acatatcnct 840
nacttacana nngacnattc tactacatca atctacctnt ctgtaangna ccctttatga 900
tactaccaaa ancatncgnt ctacttctct cactccntac ncatacnant nttgcattng 960
cnatcncacg tannnnccta cactatagct annnttgntc tcnttttntc tcactantcn 1020
ncactntnta natanntant ctntctnann gnctctgtng tnaaactcca cgcatntaca 1080
ccgctcnnaa nctccctacc canctnnctn tatcccttcc nnnntnaann tatangtctc 1140
tatatacnct ctncanantn acatctntta ttctccncta tgtccctttc aacaaaatac 1200
acannanact nactcttctn aacatangac atactncgnn tctanantca tcnanntant 1260
cananantnc ntacnnantc ancttcttta nnanaccnnc gtatntntct tntctnnnat 1320
ctntntncnn tntctaaatt tagttncttn cctcncatgt nttancncaa nacactntca 1380
tncatgcann ttcnatacna atacntannt acatntcatn canntnnatt actnaangac 1440
atancngcca tatatactan gattgtaaca ttcatnanna ncnncngnat ntacacntta 1500
ttctctatat natatcttgn atntcacnnc ttctntcnat ctntacnann tcangttnnc 1560
ancacnatct ntctnacntc ancctccaaa ccc 1593

<210> 4907
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(749)
<223> n = A,T,C or G

<400> 4907
gnncttngaa tttaannccn ttngctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggttcctgat atggcnggct atcctcacat gtcgttacat tncatcagga 120
ttggatggaa catcattcag aggtcctttc acgggcaatt ttgaggaact gattcatttg 180
gaagaaagat taggcaatgt caatcgtgga gcatcccang ggacaattga aagatgtaca 240
tatccacata aatacaaaan ggttacaact gattggttct cacagaggaa actgcactgc 300
aaacaagatg gggaagaang gactgaggaa gacncacagg aaaaatgtac tatctggtng 360
nctattttag aggaaggtga agatgtgaga cgtcttgcat gtatgcacct tttccaccaa 420
gtgtgtgttg accaatggtt gattccaata agaantgccc catatgcaca gtggacattg 480
ngcccatctg ccaagtgaaa gntgacacca tgtttnanaa ctnttgccct ccctctcatc 540
ccattacttc ctgntgctgt acttcaacnc nnagatggca tgacttacct gcgcagattt 600
ggaagcattg naacttataa tgctgnctnt gctatatggg acaacttatg cttagaccta 660
cagtttatgt atcaagtggc tttgangtnt tatnaaagct ttttttctag attgacnttt 720
tcngctcant tactggttnt tgcnnggtc 749

<210> 4908
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 4908
ttatnctgtn nnnnttttna aannatagct acttgttctt tttgcaggat cccatcgatt 60
cgaattcggc acgagccgga acaaggacca ggaggtgaac ttccaggagt atgtcacctt 120
cctgggggcc ttggctttga tctacaatga agccctcaag ggctgaaaat aaatagggaa 180
gatggagaca ccctctgggg gtcctctctg agtcaaatcc agtggtgggt aattgtacaa 240
taaatttttt ttggtcaaat ttaaaaaaaa aaaaaaagcc tctagaacta tagtgagtcg 300
tattacgtag atccagacat gataagatac attgatgagt ttggacaaac cacaactaga 360
atgcagtgaa aaaaatgctt tatttgtgaa atttgtgatg ctattgcttt atttgtaacc 420
attataagct gcaataaaca agttaacaac ccaattgcat tcattttatg tttcangttc 480
agggggaggt gtgggaggtn ttttaattcg cggncgcggc gccaatgcat tgggcccggt 540
cccacttttg ttcctttagt gagggttaat tgcgcgcttg gcgtaatcat gggcatagct 600
gtntcctgtg tgaaattggt atccgctcac aatttccnca caacatacca acccgggagc 660
cntaaagtgt aaancctggg ggtgccttaa tgaagtgagc taacctcaca ttaaattggg 720
gttgcgctca ctggnccccc ttccagncgg gaaacctttc ttgccaanct ggcatttaaa 780
gnaatnngg 789

<210> 4909
<211> 1214
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1214)
<223> n = A,T,C or G

<400> 4909
gcncttcccc cttnttnaaa ccntttnaaa acccttggtt aaaccccttc nnattnctna 60

tngcttggna ctacctnctn nacctnannt nnnnatncac ggntngcnnt tttcnacgtt 120
ttnncnnccn cttntncact cagcaacttt ntnacnctta atntgcanct nntctnctan 180
cgggnggccn anantanatg gnataacang gntgtcnncn gactgntcct ggccntgnaa 240
atancatctn tnatggntaa ncacannttn tccanagcnn aatagnntng gngccnnctg 300
aanccccaan ncctnattnn cagcacccac ctttattatt nantatgnna tcataccanc 360
tcgannncct atnggtggnt ntctngngcc antgnaatat angccgcagn catntngnnt 420
aacgntatcg ntgcaacant cnntccaact gnaacantng ctcntnnctt cgccactnnt 480
aatanttncg ntcattacca agtatnanaa ngntatcttn tncacactaa ntnagcgngc 540
ncaaagntng natnatcact cnnatcnata actnnnantn atnnnnnang gtncaanatc 600
ttttntanat cnntatattt atantcnant tntantnnna attcanntgc ttgnnancac 660
atgnanncta nnnntannтn annncnntat nctctttatn gctnttcccn tttnnantnc 720
anttagacnn tacntnncnn tnangcgcnn ntattaanca acannannnt tnnantcann 780
tncctcntnn cgattctntc gncncccntc actgccncnn ntnntcncnt nnctntnccn 840
ntnnctnnnn nngtcnnnnt ntctccttct tcagncnctg tcacgctctn atantannac 900
gtatactntc tnctnntann atactcgana cacactgntg atatannctt ntntacatct 960
atcantacgn ncnanatcat anantnntcn atanctctca cactctntca cgatngtntc 1020
atcgcaccac ttcgnnactc atagatntnn atatanntac cnngtgntan tctnntnnat 1080
cantaanaan gcangcacga cgnacatctt gctntcnnnc natntcnnct ctcnatnatn 1140
nantnacact aancacnata cncactaact atattactcn catntcancn ctactctatg 1200
actctancta ngcc 1214

<210> 4910
<211> 1192
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1192)
<223> n = A,T,C or G

<400> 4910
gnnaaggggt nnncnttntc ttnntctgct ttgngtcatc gtcntcgacn gngnctcngn 60
ctgntctaga tgacctctcc gctttttttn catngaaaag ctcnanacnt gtnnctaaat 120
ataannctna agannggacn ctanaaanng ctcactatac atgctcaact aaacnnnccc 180
tganctatat gcgctaggng aagcatgctc ntncactaga caattgactc tgctttagnt 240
aattccnatt ccggaaactc gcgcaacccg gtnnnctggg gacctcctat ctcntngaaa 300
cgatgaaaaa gcccaaccct tttagngtcn cncctngagg aaatnggcgc cattgggcga 360
nattcgccct ccaaagggaa aanggnnggt tagacncang nccttttcac ccctngggna 420
ggngttgnaa gnggaatagg gnctcnaaat cccccnaatt tcctnngngt nnaaatgggg 480
gccacctcng taaccantcc cttgttgggg gaaaaatttn gccttnatta ncccttnact 540
nngggnaaac ctttnccgga atngttangc aaaaattttt tggcttgggg gccttttgg 600
ggccntaagg natttcnggg ggntttancc cccaaaattn tttcgtnggg gncanattna 660
ccaagngnnn ccanttggan accccaattg gttgggccct nccccttggg ttntnggggc 720
ttaccttana aaaatnctcn gagggggcnt taaanccttg gtnggaacct ttttttggaa 780
aaggttttcn ccngggnntt ncccntttna aagggcgtta atancccngg ggtcttagtt 840
tnggnanaaa anccaatntt nttcnccnaa attgggtttn ggggcntttg gtatcccccc 900
gnaaattncc aattncaaaa aatttcccnt ggggnnccaa ttttnccnta ancccttтna 960
aaccggttaa aaacctnggn ggggnccnat ttnttttngg ggntnnaana atttgcccna 1020
accgttntta accttnttnc ccctttaatt cggngnttnn ccccannntt tttgtnngcc 1080
cctaaacgng cntaaccagg ggacctttтt nggggaaanc ctttntccat ganaaccctt 1140
tccttaaaaa aaggnggtgn cnaccntggg aggaancatt nnttggggaa tn 1192

<210> 4911
<211> 1006
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1006)
<223> n = A,T,C or G

<400> 4911
gcncannccg annnccncan ccannccnnn ncnacncccn aaacgnnana agccgacgcc 60
acangncccc gcgancgccc aggctgaanc ttgcnttcaa aagctggaan cgacacgctn 120
nagnncnagc nacngcncgn gncacgaggc ccatgtncag nctccaagac cnncangaca 180
ccgcccaatg ggaagccccc gnggncngga ggcgcacagg aagaagggga tnggggcagg 240
aanaagccca nggcccaagg aagaccggag gacccanaag gncaggaaga gacacncacg 300
cnccgncnca cannnncgcn acaaganacn ancanggga gcgacnagcn aacanncaca 360
gnangagaag ngancaccat gngcgacgna nncacacgca ccnagcgngc nagaatggac 420
ncanagacca canngtgaga annaagccnn agacganaag aacncangng ccgcangcnc 480
ccngagaggn nccccccgg canaacatgn cancnactac accngncnna cnaaggggac 540
tcaggngata ngaaggcncn acancgccng naggnaaaac nngcacacnc nggaaacnnn 600
gaaccntgna angnnnncnc aaaaaaaccn cangggnaga aaagagcaaa gngcgngcac 660
gcaggggnnn cgnaannana aaacccnngc aggngaaaac cacngggcta naaccaggnc 720
ncaagngnac ggaanaacaa cgagcnaaag nnacactaan gaaagnngng cgcaacngna 780
aaggggnaac nanccncang ncncacgcan gggaaacnan cgnnnaccga naaaaggggc 840
aanngagncn ccnnggggaa aaggcaccaa naagctataa cccgagagca gagnnnanng 900
ccccncgcca gagaaanccc agagnaanna ngacgnaann aancntcnaa naaacagcgc 960
ncaaaangcg tggnacannn caaacancna acnccngnna ancccc 1006

<210> 4912
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4912
tnaatatcag ctcttgttct ttttgcagga tccctcgatt cgcangaggg tgttcgactg 60
ctngagccna gcgaancgat gcctaaatca anggaacttg nttcttcaag ctcttctggc 120
ngngattctg acagtgaggt tgacananag ntaancagga aaaacaagtn gctccagaaa 180
ancctgtaca gaaacataag acaggtgana cttcgagagc cctgtcatct tctaaacaga 240
gcagcatcng cagagatnat nacatgtntc atattgggaa aatgaggcac gttantgttc 300
gcnattttaa aggcaaagtg ctaattgata ttanagaata ttgnatggat cctgaaggtg 360
aaatgaaacc aggaagaaaa ggtatttctt taaatccana acantggagc cagctgaang 420
aacagattct gacattgatg atgcagtaag aaactgtgaa attcgagcca tataaataaa 480
acctgtactg tctagttgnt ntaatctgtc tttttacatt ggcttttgtt nnctnaatgt 540
tctccangct attgtatgtt tggattgcag angaatttgn angatgaata cttnnttta 600
atgngcatta ttaaaaatat tgagtgaagc tnatngtcaa ctttattaag gattactttg 660
ctgccaccac ctagtgtcaa ataaaatcaa gtaatacaat cttaataaac ntttaaacta 720
taaaaactcg acccttagac ctatantnag tcggttn 757

<210> 4913
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 4913
gtnactaatg gctgggctac tcgttctttc cgcaggagcc cancgattcg tcnagtgntc 60
gnggnttgtn antntnngcc nnggcantna ttnattgncn ntngatgatt gatatcaaca 120
nttgaggtaa aaatatncat gaggtctaaa tataacatgt aaatgcaatn tcatacttta 180
tttncattgg caagataaca ttgantaccn atactgnggt atttgacaaa caagcttgat 240
gcatcgtgat ntcnncntta tttccctttt ccttgnttta aaaagatgca ctgcgttgtn 300
atncncnggn natatganta ctatgngcac naaaacnana anntcngatc attcgantag 360
aggganaatc nganctncan tcncattcgt tctnattcng nngnanggat ctngtaggtc 420
ctccnttctn agatgtggnt ttaggccagc agcntaggca tccctgagac tccttataaa 480
tgcataaatc tcaggcncag cccagatnac ttggagcata atntgcagtt tgcaagatcc 540
ccaggcaatt catgtgcatg tgaaatnngg acaagcacct ttntgggcga tgcaaagcca 600
ctcatnctcg cgtgcctatn acggtttnca aacacatcgg atcccatctc aggagcctga 660
cccgtgtnta nctanattaa ncttcactgn tgatcttnat gatgcatatn a 711

<210> 4914
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 4914
agagnnnnnn nnnttgtcgn ntactnaatg gcttgggttg gttgttcttt ntgcaggnag 60
cccagcgatt cgccgggtct agccaacatg tgactacaac tgcatgaaag accttaaatg 120
agacctactc agccaaactc ttcctaagtc ctgtccaaac aaaaccatga aggataagaa 180
atggttatta ttattttaag ctaccacctt ttggtgtgat tattatatgc aataataggt 240
agcagacact ggctttggtt ggacatgtat gttctctgca tattctgctt ttgtgcatgt 300
ggagaaatgg gctttctggg ctgctgacaa tgaggaggta gagatgttgt tcaggcagat 360
gcgtttagac ttcgagtcca ctttctcctt ccaagaacta tgtggcctta caaatgctgg 420
ggttggttta agaaaacaga actcttaatg tttgtaaaca ttcctgtacg agagttcatc 480
catcatttgn gtctctctag aaaggtcata cgcagaaaat gtagtggtgt agcaaaattt 540
taaacttttc agactggcaa aacccttttct ttaatgtata gtattactac tcatgtccat 600
tatgaaccat gacccaggga gactctgctg anacaggctg catctnctcc accttatcct 660
nctaagacan gcttctacct aaggggacat agaatttacc cctgtttgtn gggtggtgtg 720
gattcttncc aactgnctta atccactgg 749

<210> 4915
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(542)
<223> n = A,T,C or G

<400> 4915
atccctcnnt tntcaantca tattcctcac aagcannctn tanaatntct nancactttg 60

ttctntcncg cnaaggnnga cgcgatntga ggactttggt gnnnntgann acttggctga 120
ttcacatgcc anggcctngn angaagcagg agaaaggana nnggngacng acttaaacgt 180
gtncaatacc atccttacca ccngaagcta tccanagctt ctcagagngt tgcagaanta 240
caccaantac acnaancatg acatgaacaa agntctngac ctngagnaga aaggtnacat 300
tgctaagtgc cttnacagct ctcgtgaacn gcgccacagg cgaaccagct ttctttgcag 360
agaagctcta tcangccatg aaaggtgntg gaactcncca tanggcattg atcacgatta 420
tggntncccg ttctnaaatn nacatnaatg atntcanagc attctatcag aagatgtatg 480
ggntctncnt ttgccaaacc atcctgnatg aaaccngang agattattga agaaaatcct 540
gn 542

<210> 4916
<211> 1285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1285)
<223> n = A,T,C or G

<400> 4916
gaaagnacna aagncagctt gacagggatt tnaangnntn ggaacncnnn ttctcnaagc 60
ngnntggtcn ngatnantta tanatatgtc ttcncatatn angaacnaaa ntatntntgg 120
gnngggnttc tnctngagng atttctgtna ctcntgantt nntaatgcnt nananntgtn 180
ancgantnng gtnaattgnn cctancagca ncatgtancc ntaaaaacgc atncnatatn 240
tcttancncn nagnggtncn ncgcnattat ctaatgnctt cttnaactga nntntaangg 300
nctntgtant ncgngaanct ttaagtnnat tcacgncnta tattctaant catgttccaa 360
nnnncctatc ctgcanaatt acnctgcnnn tgatccntgg catcnnggaa gntcantncn 420
gnncaattat tcatnatatt gtggcattnn tctnatttna tactancgnc ntccncntan 480
atatatanaa gncngcaanc tctgtngaan nncttcnaat ntgacnnacc cgtntattat 540
atgcatnaac ccntatcctn atcnanctct agtgtggctc ttaggcaccn annatttatg 600
ggnaccctgt gntcaaattn ggntctccgt nanctnacng ctctcnattt aangntnang 660
nctaacntaa ccntctttgc tgggtacaat anggcgnacn ctccnctnnn nacatttttg 720
nnanaaagnc tacntgggnt cactatntna nanctacncc ttttatcggt acntngcgta 780
atnattgncc atatgtgata cgngnccaac aaaatgtcac tntatataan tntggntcnn 840
acntcnncgt tanncnncct atntaacntt cannttttac atananncnt aaaacntntt 900
gngcaaacaa ccaatnggng atcttnnnga aaaattanca tnggtttttn ggctacttnn 960
ctatntcatt naattaccgn nntatctcna ncntanntaa ctacnnttttt nanaaaggng 1020
tcaatgggtg tcatctctca gngacaccct cnnctatata ncatnctnta tntagtataa 1080
tctcanaaaa cnctccctct naaancttnt gggnacntna anaanacgtg actntcannt 1140
cgaancctg nnnttnttaa tnnggatant aggggngtac naaaaaaann ngtgtttata 1200
aacncancnn ttnaannnnt tctctatatg ngcaatttcn acggtattnc tnncnngtcc 1260
ccatatatac tanatcacan tatnn 1285

<210> 4917
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4917
gnncnctnnt tncngccttt ngaancccnn agttccaaat gctggttnag atcagctctt 60

gttctttttg caggaccctc gtcanaattc cnacagggag anttcggnna ntntttannn 120
ngagacngag tctggctcnn tngccagccn gaggcgggan aancncctga acctgagang 180
tggacncngc gctgagccga natcnttaca ctgcactcca gcctgtcnac agantgagac 240
nntntctcaa agnatgtata atnctnacaa nnnctccacn ngancaaann nnnangannc 300
cggannacgg agnctcctnc cctnaangan ccntggaaga atggagncac ccagnngctc 360
natttntggg nntnnncact tnngccgtna aatggatgan caagggctca ancagtnccc 420
tncataatct gcccctnacc cntncaaann aacatntnnn gccantctnn cttcanaaac 480
nggaaggagc cccnnatgac atnccagtcn nagcccccan cgaggaacna ggccnntgnc 540
ccnanntgag tgcnagnana agggcnccct gccanagccc ctgccggnnt tcntncaana 600
anggaaagaa nangaagcaa ccntggaaac tcgctctgcc aangagcncc nngacaangg 660
ttnaaccggg nggcccnnnt ctgagcttng ccgccntttt ctgngggncn nccccaagaa 720
gtgtttacac cccttaatcc ccnctttanc nctngatttn ngggggnccc naacccggat 780
nn 782

<210> 4918
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 4918
gnnnnnnnnt ttnnngctnt tgaaaacccc tttgtttcaa agaccnagtt cttgttcttt 60
ttgcagggat cccatcgatt cgaattcggc acgaggtcac aggtaaaaaa aangtgcgtn 120
ataagtnttg ttatcggtgg actttataaa agcaaangaa attgangtaa cttttgattc 180
tggtntcaag attcatnttt ncatacaggt cataactgnc ttnntgnaac cctttcacag 240
ggcactgnnn gatgggatta aaggtggcaa ttactggata actgcacatg cctctacttn 300
gttctaaant ctangtcatg aggtgatttg atttacttta tagangctgg attttgaaga 360
tctaatgnna aatgttatga tnatatcagt gngtncaaaa aaagcaccag caactgataa 420
aaatcgcntn tttgtgcgct acccaactgg ttaaagccaa tgtgatcttt tatggngaaa 480
ctcctaagan acangtggtt ttgctgnaaa cttgncanac ccttaattat agncggtgct 540
aatgagccta ctgcaatata aagccaccat tnttttttat caaacatctg aattcatttt 600
acaaaggcta ttgttagggc attattttga gcatctattt tgaggtgatg ttnanaaaac 660
tttaacntca aatcaaattg aaaattaatn taaatatatt gncttaagga ccttctaaag 720
aatgtgccac cagactttaa tggatagttg cnannatcct tgnctaanaa caaaaaagtt 780
gcttaaacat ttcttttaca aganggnttt tt 812

<210> 4919
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 4919
ttctaatgcn aggttctagt nctgttgaan ncccngctat tngattcggc acgaggncct 60
ggctactggg gaggctgatg cccganaanc atgttggccc aggagtnaag gctgcagtga 120
gctttgnttg cacngntgcn annncatnct ggccngccca nngngncccn gccacaccan 180
aaattatgtn ctnagtntan nngcntcnga aggcctantc tcgnaccaga gttnctctta 240
ctggattatt tttagattgt tattaacatt nctggtctnt anctttactc agtctggatn 300

agaaaaagaa taccatgcaa ttgttaacta ttngatgttt actagattaa ctattaatat 360
attgttgtgg tccatattta agagttactt tgttnctaga gatttcatta tagtggngnt 420
taatatannt ttgggtattt ttaactaaaa atcattgcta tccttcaact gtagattcta 480
ctatgaaatg aggaaaaatc agcaatagaa ttaattgggt tcaaagtata taaataatga 540
tgtgggaaag ggaagtcnga gggtatctct ggaagaactg atttatctga aggtaatact 600
gngtgaaaga acctaagatt gtngacanag catgcttnat gcaattntgc tggtccatag 660
tagtantaga ggctctataa aatgtgttgg ggtgtttttg nctttttaang agacnagtgt 720
ctcgctntat tggcccagga gtttcaaacc tgnagtgccc cngtggnttn ncacctgtga 780
nt 782

<210> 4920
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 4920
agggnnccnn tgttctctcc tnaactcnnn nntgncagcc ttnntcgcct accagaaggg 60
gtngggccgc gctgacggcc cagntggcgn tttntctcca ttgtgtatat gtacatagnn 120
tnnatcacta gattgnacnc tcctcanggg cacgaaccgc aacatntatg cngtgcctgc 180
ancncctaat gtgaanngcc tggcacactg gtagcgtgca tcatgacccn tngaatgngn 240
gagtaacnac ctgccnnanc acgatgnnat gcngttcacn tcccctgtgn acnncncngc 300
gnngcaantc ctgccatang agggcgnagt tccaacncgn gggnnnactg gcncanctgg 360
gttgnaccat atcatcccac atccnnacca ctngctaacc cannntcact gnagattacc 420
tgtcagagac ctgcgttcgc tatctaatat tcgngctgag gntcctagga anatctggaa 480
ntggggaaga ttatggagaa aatgaaaang gaaattcggg gagggnggtt ngcagtataa 540
agccctgtgg gggaaaacat attttagctc ttacttggta aaaagggtna ncagaacctc 600
tggtttcttt accaangtcc nctggntngg nccatttctt ccaattggat gaacnacccc 660
tttgggtttt tannctcctt tnctcaattt tggggaattc cccnntcnaa tnggctttac 720
natngaantc tgggnanctt naanangtcc taaatanaan ttncctgggg naatntggta 780
c 781

<210> 4921
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 4921
cacgagggct gccagaaact cattgaagng gacgatgaac gcaaacttcg tactttctat 60
gagaagcgta tggccacaga agtngctgct gacgctctgg gtgaagaatg gaagggttat 120
gtggtccgaa tcagtggtgg gaacgacaaa caaggtttcc ccatgaagca gggtgtntng 180
acccatggcc gtgtccgcct gntactgagt aangggcatt cctgttacag accaaggana 240
actggagaaa gaaagagaaa atcagntcgt ggttgcattg tggatgcaaa tctgancgtt 300
ntcaacttgg ntattgtaaa aaaaggagag aaggatattc ctggactgac tgatactaca 360
gtgcctnnnc gcctgggccc caaaagagct agcagaatcc gcaaacttttt caatntctct 420
aangaagatg atgtccgnca agtatgttgt aagaaagccc ttnataaaga angtaagaaa 480
cctatgacca taagccncaa nattcagccg tnttgntact tncacgtgtc ctgcatcaca 540

aaccngcggc gtatttgctc tagaaagaag cancgttccc tngaaaaaan tnnnggaaga 600
aggcntggan gaatattgct anaacttntt nggctaagag naatngaaan gatgcctaaa 660
nggaanaagc nccaaggaan caaaattggt naaagnagac nncnnacntt ttcctnttgt 720
ngcnaagcnn 730

<210> 4922
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(675)
<223> n = A,T,C or G

<400> 4922
gngnngnnnn nnnnnnngnn agnnnnnnnn ngnnagnttn nnagngnnnt ttntnataca 60
gctcttgttc tttttgcagg acccatcgat tcgaattcgg cacgaggcnc tcctgacnac 120
ngccaagcac tntnncggnt tccgngtnnt cnnttgcagn tatngnaaan tnnnncattc 180
gtnnnnactg gnnatangnn tntatgaata cnanatgtng gacttcatna tgntcacacc 240
natagcatcn tatganagaa ttagnngncn caganttac nacanagtan atgtccnnng 300
tcatgnacgc agatatacac aattctnaaa agtttacctn attcagntgc acgacttgga 360
tnaatggact ggcnataagg attacatagt nangactgtc acaattntna nagccgntca 420
nacctnccag ttcatggaga ctgatntgcn canagaagca ctgngcttgc ancggggtcn 480
atgtgcgtct gatatntgac cagnaacgnn caatagcttg gtattaaaac cncngcaatg 540
tnngnntgat tatgacacta cnaatgttgt nnacacttgt acgctacaca tnnnctacct 600
tacnaatatn tacttgtatt gntagagggc tntccanaga aatnntnnta tataccgaat 660
gcaacacctg ctacg 675

<210> 4923
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(675)
<223> n = A,T,C or G

<400> 4923
gngnngnnnn nnnnnnngnn agnnnnnnnn ngnnagnttn nnagngnnnt ttntnataca 60
gctcttgttc tttttgcagg acccatcgat tcgaattcgg cacgaggcnc tcctgacnac 120
ngccaagcac tntnncggnt tccgngtnnt cnnttgcagn tatngnaaan tnnnncattc 180
gtnnnnactg gnnatangnn tntatgaata cnanatgtng gacttcatna tgntcacacc 240
natagcatcn tatganagaa ttagnngncn caganttac nacanagtan atgtccnnng 300
tcatgnacgc agatatacac aattctnaaa agtttacctn attcagntgc acgacttgga 360
tnaatggact ggcnataagg attacatagt nangactgtc acaattntna nagccgntca 420
nacctnccag ttcatggaga ctgatntgcn canagaagca ctgngcttgc ancggggtcn 480
atgtgcgtct gatatntgac cagnaacgnn caatagcttg gtattaaaac cncngcaatg 540
tnngnntgat tatgacacta cnaatgttgt nnacacttgt acgctacaca tnnnctacct 600
tacnaatatn tacttgtatt gntagagggc tntccanaga aatnntnnta tataccgaat 660
gcaacacctg ctacg 675

<210> 4924
<211> 750
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4924
cgggnnnnnt ncntttcntc ctaangaaac ncttntgant ggcntggcta cttgttcttt 60
ttgcaggcac ccatcgattc gattcaaggc ctctcgagcc tctttaacta tagtgagtcg 120
tattacgtag atccagacat gataagatac attgatgagt ttggacaaac cacaactaga 180
atgcagtgaa aaaaatgctt tatttgtgaa atttgtgatg ctattgcttt atttgtaacc 240
attataagct gcaataaaca agttaacaac aacaattgca ttcattttat gtttcaggtt 300
caggggggagg tgtgggaggt tttttaattc gcggccgcgg cgccaatgca ttgggcccgg 360
tacccagctt ttgttccctt tagtgagggt taattgcgcg cttggcgtaa tcatggtcat 420
agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggga 480
gcataaagtg taaagcctgg ggtgcctaat gagtgagcta actcacatta attgcgttgc 540
gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc 600
aacgcgcggg gagaggcggt tttgcgtatt gggcgctctt ccgcttcctc gctcactgac 660
tcgctgcgct cggtcgttcg gctgcgcgag cggtatcagc tcactcaaan gcggtaatac 720
ggntatncac agatcanggg gataacgcag 750

<210> 4925
<211> 1302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1302)
<223> n = A,T,C or G

<400> 4925
gnccggcgcc agtgcngtac ccanagcaga acgacccgta aaacccccttg ggaangnccg 60
ggacgggncn cnngngccgn nccncacncg cncncnnnac accccntttt nccccccattt 120
tancaccann atngncnnan cangggggng nannacngng naaaaccccng gngagnnccc 180
nnccgcnggg gannncanang ngcngnnaag naaccnggng cnncaancan ccngngcgng 240
cccacanaca cnggccanaa gananacgca agcgnacgcg gncgaagncg ggngnacagn 300
aanaaacnnn cngcacngcg naaaangccg cncaacanna gcnaagggng aacgngacac 360
ngccngancn cncgncggan ncacngannn ncgcannanc gcacangagc gganaccacc 420
cagcnngcca naangcggca canacgncnc ggggnnnncn anccgngncc canangnnna 480
gacncnggna cacccnncca ccccnangcc nagannncan aannccnagn nacccnagac 540
annacnnnnn gannnccnnn cnanccgagg nacannncng nanngnngac ccnnnnctnn 600
nnngccnana nannccnnac ancncccccа nccncccgag ngaaacncnn naangaccan 660
cncaanacga cnccncgaca nnacacnngn gcccancnaa nncaacacna agnnnaccan 720
acngcncnnc gnacnaaacn ncacgcncgc ggagcccgaa ccaacgcacg acacgcgacg 780
accgancanc aagaangnga ccncacacgn agcgnccnnn cgcgcgnanc gccggacnca 840
nngacanncc gaanagannc gcggnangng cacgaancaa cggccannng nnganngagg 900
agcnacaacc ncnacggang cgangccgna nagangacgg accaagacnn gaanaccgnc 960
gaggccnaac aaacggncga cgcccgcgga ancncacnan cncngnnggn cannennngac 1020
ccngananca cacancgcnc accacangnn ngnggaacac gacaangcca cgnacanaac 1080
gacgaagcan gaacanagnn gncgcaanng nnancnagnn nggaanacac acncgaaccg 1140
aacacanacg aagnaanacc aagagcanna gnagaagcnn acacagacac naaacngnaa 1200
ccggcccnna gnancccanc gcncnngcan cagngcacaa naanncggan ncccacgcca 1260
aaacngcnac agnncgcaac gnangncncn acgccanacg cc 1302

<210> 4926
<211> 818
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

<400> 4926
tgnnggnnta gatcagctct tntctttntg caggatccct cgattcgaat tcggcacgag 60
gctatttgtg ttttgttgca ctgttntttt tgtttgtttg tttgtttatt tggttggctt 120
tttggagagg gaaatggggg tgaaatattn ctttattgnt gaatcatttt gtgaatgtcc 180
ccctcaaaaa aagctaatgg aatatttggc ataaagggca ttngntggtt ctatttttgt 240
ttgaggggna ttntcagaaa atccctttтc tctcttacgc ctaactgact ngggaaccat 300
tgangatntn cntagcnttg gaatacttga cattatntac tctnacnaat aacacattaa 360
gcnagaatna ccaatnttcc nanaatnngc ncttgatcac aaaatgtgan nnacctntna 420
atgtntanaa ctttatcaaa ttnagtnnta ttttcccctt cnaaatgtcn ccctttcccn 480
ggcatttnct tccnttaaaa tattggtnan ttccctgaca taccnatttc catngttcaa 540
cagctttgtn nccnnagnta taanaanttt ttgnancсct ggananattt tcaatnncgc 600
cnatnangta nccnttcnan cantgttngn gnaaaacccc cntngcaagc ccntaaaaan 660
gttaagcctt anttgncttt aattncnctt tnnnngcntn actaannccn catnttcnna 720
nttccttnaa aaatcntntt nggagcccnn cccttntnnt taccttttgna ntnnnnccca 780
aacttcannng nntatccaat nctgntttnn ccnaaacn 818

<210> 4927
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 4927
atcagntctt gttctttttg caggatccca tcgattcgaa ttcggcacga gggtgactgt 60
ggagggcgag ctgagccctg gccgccgtca caatgggccg ngagtttggg aatctgacgc 120
ggatgcggca tgtgatcagc tacagcttgt caccgtcgag cagcgcgcct atnccacgtn 180
ttcactaaag gaatccccaa tgttctgcgc cgcattcggg agtctttctt tcgcgtggtg 240
ccgcagtttg tagtgtttta tcttatctac acatggggga ctgaagagtt cnagagatcc 300
aagaggaaga atncagctgc ctatgaaaat gacaaatgag caacgcatcc gnatgacggt 360
tccctgtctc tgaaagacct ttctctggaa gaggagtctg cattgtntgt ctcaaagaca 420
caataaactt cctatggtct gcanaacaca nnatntntta aaaatttaaa aattanctgg 480
gcatggtggc aggtgcctgt attccactac tcangangct nangccgaaa tcnntagaac 540
ccnggacgtt gaagtttcag tnagctgant cnttccactg gacttnaanc tgancnnnng 600
antgtnactc catcccaaat tnnaaanang tgggantatt acttntcntg aaacntgcgc 660
ctntangcca attcttaann nnttangtgg naagaacatt tancccagna tttnaggttn 720
nntnacnatg ctgngggggn nn 742

<210> 4928
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 4928
aaccgggtgg gccccttttt tgaaaggntt tttttanccc ttngttnncn cnnnctaaat 60
annggnggntn catcgcntcg ctanngccng ntntgggang cnatgntata cttggctacc 120
ttcctatgnt ccttctcaca gcaaaactnn gggactgatc atttgaagtc acccctctgt 180
gtcttcttgt gaaatggctt gggcgtctct gggctctgac ttgctcatct gggaagagat 240
ggggtanagg gagttggatt ataaatcatg cttcactcag tcaacagaat gctactcagg 300
cactaaaaat gatggcgtag ccctacgtat tctgacatgg gaagatggcc acaatatctt 360
attatgtgga aaaaactagt tgcataggat ttatggnttg attacatttt agtaaaataa 420
attcatttat ggtggtatat gcaaagaaaa aataatgccg ggcgcantgg ctcacgcctg 480
taatcccagc actttgggag gctgangcag gtggatcact tgaggccagg aggttgagac 540
cagcctggcc aacatggtaa aaccccattt ccattaanaa tacaaaaaat tagcaccaag 600
cgttggtggg cacngtgcct gtagtcccag cttactcagg aggctgagat gggagacttg 660
cttgaacctg gaaaggtgga ngttgcggtg gagcccaaga tcacgccact gcacttcggc 720
ctngggctac agnccagact ctgtcntcaa aaaaaaaann 760

<210> 4929
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4929
gngnaggnan natttnnaga nagcnnnngn aangtttggg gtnaagagnc attnaaacnc 60
ttggcnncag gnatcccaan gtngcnaatt nggcacgagg ttgtnttgga aacagtcgtg 120
nggangaatt gcgagagaac ctaaacggga tctnctgtgg nttgctctgg atganatnga 180
nttggctaan ggtagaggaa catttccctg ggatatttnn gcccttgata ttcatcaaga 240
tntanactgg aatnctaacg cncctaccct gaatgtctgg cctntgnata tctgtgatga 300
tngtgcggac atatttcanc gggatanaac agncgaatta atggaattga cagatgagca 360
aagaaatgaa ctgatgaaaa aagaaagcag tcgactccag aagactggac atcgtgtanc 420
atactcacct cgtaaagaga aagcactaaa aatatatctg gatggagcac caantaanga 480
tcctgctcaa gactgactct gatagttgta gcanttttcc cttgggggga agttnnnngt 540
ttttnaanaa ggatgggttc cactacccac ttggggaang ttgcccattt tcnnnccggn 600
accaatgngn nngnggggtn aaccccncagg ngaacnaacc antcgccttg gaatgggnna 660
cctngnnncc ttancaancc tcttcnagaa agggcnttcn agtgggcccc caaanagggg 720
ncccanntgg gtcccatnga acttggggaa atccannggn tttgannсca cccaatnagn 780
gncaanaaat ggtcccnggg aaaaatntgg tcaataaggg ggattgaggc cntanatcaa 840
ntttncctng gcnncccaac cntaaaaaaa ggcttnnccg ngatccc 887

<210> 4930
<211> 804
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(804)
<223> n = A,T,C or G

<400> 4930
tcnccccent ttgaanncce tttntttaat nnncatanag ctacttgttc tttttgcagg 60
gatcccatcg attcgaattc ggcacgaggc tccctatgat gcctgctgga atgcctgtcg 120
aggagacagg tgggaagact tgtccagatc acaggtgcgc tgctatgtcc acatcatgaa 180
agaggggctc tgctctcgag tgagcacact gggactctac atggaagcaa acagacaggt 240
gcccaaattg ctgtctgctc tctgtccaga agaaccacca gtccattcgt cagcccagat 300
tgcagcaaac acctggttgg agttgacagc ctcattgggc cagagacaca gattggagag 360
aagtcatcca ttaagcgctc agtcattggc tcatcctgtc tcataaaaga tagagtgact 420
attaccaatt gccttctcat gaactcagtc actgtggagg aaggaagcaa tatccaaggc 480
agtgtcatct gcaacaatgc tgtgatcgag aagggtgcag acatcaagga ctgcttgatt 540
ggaaagtggc cagaggattg aagccaaagc taaacgagtg aatgaggtga tcgtggggaa 600
tgaccanctc atggagatct gagttctgag caagtcagac tccttncttt tggcctncaa 660
agccacagat gttgggccgg cccacctgtt taactctgta tttatttncc aataaagaag 720
gctttcaaan gcatgcttgg anacttgtgg agcagtccaa acttcatgtc aggtgggctt 780
ccagtgtaca caaaaaaaaa aaaa 804

<210> 4931
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4931
gngnaggnan natttnnaga nagcnnnngn aangtttggg gtnaagagnc attnaaacnc 60
ttggcnncag gnatcccaan gtngcnaatt nggcacgagg ttgtnttgga aacagtcgtg 120
nggangaatt gcgagagaac ctaaacggga tctnctgtgg nttgctctgg atganatnga 180
nttggctaan ggtagaggaa catttccctg ggatatttnn gcccttgata ttcatcaaga 240
tntanactgg aatnctaacg cncctaccct gaatgtctgg cctntgnata tctgtgatga 300
tngtgcggac atatttcanc gggatanaac agncgaatta atggaattga cagatgagca 360
aagaaatgaa ctgatgaaaa aagaaagcag tcgactccag aagactggac atcgtgtanc 420
atactcacct cgtaaagaga aagcactaaa aatatatctg gatggagcac caantaanga 480
tcctgctcaa gactgactct gatagttgta gcantttcc cttgggggga agttnnnngt 540
ttttnaanaa ggatgggttc cactacccac ttggggaang ttgcccattt tcnnnccggn 600
accaatgngn nngnggggtn aacccncagg ngaacnaacc antcgccttg gaatgggnna 660
cctngnnncc ttancaancc tcttcnagaa agggcnttcn agtgggcccc caaanagggg 720
ncccanntgg gtcccatnga acttggggaa atccannggn tttgannnca cccaatnagn 780
gncaanaaat ggtcccnggg aaaaatntgg tcaataaggg ggattgaggc cntanatcaa 840
ntttncctng gcnncccaac cntaaaaaaa ggcttnnccg ngatccc 887

<210> 4932
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(807)
<223> n = A,T,C or G

<400> 4932
nnnnnnnann nnnnnngnnn nnnnannnnn nnnnnnnnnn nnnccnnnna nnnnnnanna 60
gttgaacgca ngaaagccgt ggnaaggcgg gaaccaaccg aancgnggaa nggcnataac 120

aannagngga tgtgnccagn nctctgnatc tnngacttng atgctanata catcatgnca 180
tnngnngctn ctaagggaat aagccataga ggctncncca ggtagaaaag aacagtaaag 240
nacctggaaa accaacattn nngaatgnat ggacactgga catgagatat gnacaatgaa 300
ancttaaaag aatctaagaa tnngccctct ttgccccact ccacccagna atnagacatt 360
actagngcca tgtataggac ccaactgagt attagaatca gnnnngacta tgncnnngna 420
tngcctaaat ctgttaatgc ataaaccgaa tnagggtcca gnnggcctgt naatggtaaa 480
nntacatnan aaatgactca gcnngagnat ncngggcgag tnngcaatgn gataatcaga 540
tngggnaaaa ctgatnaatn ngcaaactng agngggngna cncacagacn aaagnangaa 600
ccacagnnaa ctagggggac caggnggnaa gnggaaaaca cncacaagng annnnggnnn 660
ngggnaaggg ngggnngaan ggaanggaaaa ngngnnnnag gagggaagca aaacnnaaan 720
gggncnggaa ccaaagccng nncgnaaagn aaaannnngg gcnggaagaa gggggnggna 780
accgcaaacc anngccnagg gggnnnc 807

<210> 4933
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(925)
<223> n = A,T,C or G

<400> 4933
cgngctttaa ctnttnaaac cctttgcact tncnctttnt gcaggatccc atccgantcg 60
aattcngcac gagagagggt ggggtctggc cacataggtt tttntgnggc tctggnctgg 120
ggntagacac tgacagggac tagnattnat tggacttgcn aagacagtcc ctcanattna 180
gcaactnctt gcntnntatg gtnngcatta tgaagccanc ntagngnnng taaantanag 240
ccctncatct ntnctgngna gcccccntcac tgggctngat gtcatcatcc aaaatctgca 300
nantctgnca caangancca tgantactta annaaaggga anntctngaa cnggntagca 360
agatcnaanc atancttgct gngctnccan ggnacncnan cctnanncnc tgncnannng 420
cnatatanac ggtcangggg ctttgatcca ngaactctnn tgtactatga tnanannnca 480
caantntgnn aaacctncat gtancctnna nagttgnnnn tgngcanaat cgtnctcacc 540
aanantnntc ccnccganna actctaactt ntnattnann nctaccngtn antnttnnaa 600
tgtnnacaac nnctnnannn ccntccnnat tctaaggaaa angnntctac ccctantana 660
tagnntcagc atccactana cnnctntgct ngcctccgat cccactngcn cgcnctntgt 720
ntnnngactg ccccccctngn ncttnctctn gananattct tnggatacta cccaaatatt 780
ntgggnnanc tactgcacat ctnntcannt nnnncgcatn tcatnatnta tantcancnn 840
nncnaatncn cnngctnctn cttacnaana ntncncantc gcggcggggc gnncncatan 900
tannncngnn ncannnaaag nngcg 925

<210> 4934
<211> 1025
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1025)
<223> n = A,T,C or G

<400> 4934
gttntcattn actttcntaa tnnnntggga ntctctgaan gacncnatng antngnnttc 60
ggcacgagta ctgctccttc attcccaagt aagaaangnc aggntctgct acttccaaaa 120
ctcagncacg acttgaaggt gaantgactc ctaattcctt gtcaaccagc tacaagacag 180
tgacatctgn cattaagctc tccaaacata aagctgaatc tnactagccc taaaaggggt 240

cagaatagat aagaaaggtg ganagaagtt gtncnaaggn catagaaatn gtctgntcca 300
gcctcantgg tgtcnaggat aatggcgang aggaggatgc ancattcact tgcaatacca 360
ngatgtttac tggancccat anttnatgtn ggattnanac naataangat aangaaatgg 420
gcnaangaag aattggatnc ancaattana gggggtcggn ncaatgnaan tcatacnang 480
cantattgct aattttcaaa cnttaattnc aaatgcaaca ttcatntnct aggatncctg 540
gntttnnngt aaacttnggt aanaaacttt nggattttcc tnaanannan ttcaatnntt 600
catnatanca tcccnttngn acnaggntac tcctaanaat ncnaatttnn attgcnctaa 660
accnttntnc tcaantctng gggannntaa tgggnntcnc cntatantag tnatntgaat 720
ttttctaaga tcacanaaaa aaatgggcca tttgtctcac atntatatgg nggatggcct 780
ctccntaaaa cntccttnnt ggggtanaat acctttttnc ncacaangng cttacatcnc 840
taantcntct nttgttatat actnatacac agtatttnct ctaananctn nccgngnttc 900
taacattntc naaannnctc tttaaaaatt ctntgnanaa aattcgtngn ctcncnntat 960
catcncnant tnataatnct ngtantnatt ctnttcannn acaaaatacg cctcncgntn 1020
gntcc 1025

<210> 4935
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 4935
antgangnnn ntttcnnaga gncagctctt gttctttttg cagggatccc atcgattcgc 60
tgaaatgact tccttaggga tagagctaag ggataataac ttgcactaaa tacatttaaa 120
tacttgattc catgagtcag tttattgtag tttttgattt ctgtaaaata agagaaactt 180
ttgtatttat tattgaataa gtgaatgaag ctatttttaa ataaagttag aagaaagcca 240
agctgctgct gttacctgca gaactaacaa accctgttac tttgtacaga tatgtaaata 300
ttttgagaaa aaatacagta taaaaatagt tattgaccaa atgctaccag gctctgcagc 360
agctcggggg cttataaaat gttcataggg atgttacaat ataatttgt gttataaaat 420
atgccattat aattatgtaa taaccaaaat ttcaacctag agtgttgggg gttttttgga 480
aaccgcagtc tattagtact caatggtttt atacacctta cttctgacag agcggggcgt 540
atgctacgac tacaactttt atagctgttt tggtaattta aactaatttt ttcatattat 600
attggtgcat ccctacttct tcagtcaggt ttttttgtgc ttacaatttg tgataactgt 660
gaataactgc ttaaaaattc acccaaatgg gangctgaat ttttttcttca gccaaaagta 720
agttttgatt aggaactttg gttcaacccn 750

<210> 4936
<211> 1500
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1500)
<223> n = A,T,C or G

<400> 4936
cgcccttgtc caaaacggcc ttgngnccca aatcagtctt ggaaaancct caaatnctct 60
ctanacagaa tngnggctng gggnanncnn cnttnncatg gnncggnttt atctcnactc 120
nttttttatg aggctctttt tttcnatctc tangannnct tctaacnggn antanncact 180
cncggggngn anctcnnttc gnggggggntn nactaantca annntgnnnn tctatanatn 240
tttanntnct nnacatncca ctcntntant cctctgnnna tnccnaacat nnatacncnt 300

cacccnttta cnctancncn cannacanat ctatctnatc actcngnnnn cnnnaantcg 360
gccacataat catnctnctc acnnntacta ntncntcatt ctcnacnntc tctnttctnt 420
acnatantnt ntanctcctn tttctcntnt tcctctncnc ncanttctct ancnctgcct 480
aatanactta ctnnntctcc tcnntncaca agtcngtacn tccgtctccc tntnnatnac 540
anactatntn ctcntatnnn acannnnctn catatnntnn natnttnnac cnntncantc 600
nnttacntnt ccctnncant agntctantc tnctacntta ctctnntnat ctnnctnttc 660
anctantnnt cacanttcan ntcctatnnt ngnccntctn attcanntcn tcttatntcn 720
gnacantctn acncannntc tccnncntnn tntcatanct ctntnnacnt ntaacctact 780
antcttnnac tctcgtncta cctactcncn ctntantgnt actntacctc ctantaatct 840
atnctctctn gntntnnnac ctcacnactn ctctatacnn ncgatnanag ntntnacaat 900
ntctcgntag ttanangtnn cgcgncctac cnnnataccn ntntncnttn anactactct 960
ctctctctaa ncnctctgct cntatactat actcnatcna tatgttnatn catntctctc 1020
ncnntnannc gtngttntnt accctctntn tatctntncn ncngntcaac nnncttntna 1080
catnncnttn acncatatnn atnccgntaa tctacatncn gctctnctct ntncctcaca 1140
tacgctccnc nnantcatct tctnatattn aatgacacnt atntcatnnt acgtnttntg 1200
ntantttaat cnctttccat aatctactct cttatnctan nngctctcnn cnatanctat 1260
nctcnatatn ntaactctcn nnnncactac ngatcctaat gtnttntctn ncnntnantg 1320
atatctanaa tnnanntctt ttncnataaa ctnnangcct ctctaatncg acagtctnct 1380
ctanatanta nganaccaan atccatacct ntnntctttn anatactntc nattgactaa 1440
ctnctttnnta taantacgta tcnatnccan atatcttgcn tctctntttc ncncccccgc 1500

<210> 4937
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(812)
<223> n = A,T,C or G

<400> 4937
ttgtanctaa tgctggttgg tcgttctttc tccangaccn agcgnttcga attcggcacg 60
aggggaaggt ctggctccag cttgagccca ctcacaggat gtcaggggga agtgtgacta 120
aggtcacggc cacgccacgt ggtgggccag ctggatccag agcaggggcc gttgtggcca 180
cacatcctga gtttccatgg tctaatgcan tgggcttgaa aaaaaagggt ggatgcagga 240
tgctggctgg gactgtggag tgcgtgggca gtaagtctta agtgacagtg ggtggagatt 300
acagcatttc atctgctttt cctttgacac cttttaaaga tacaacccac agttttcaag 360
ggtttatgcc aatgtctgct agagggatct tgcagtagat cttaaaccct atagtattct 420
taagagcaca aggaaattct tatttgggtt ccatttacaa caaaggtgga aatttaaaac 480
taggcttgan atttgaaatg ctggtcacat ttaancantt tatttngggg gggtaatttt 540
ttggaaatcn gtctttaant nanttttaaa nanngttttn ccncattttt naaaaagggg 600
ntacctttnc antttngntc ctttcaannt tttnnnnttt ggnnaaaaaa tnttnnnngn 660
ttnaaatgga atgtttttaa ccagggnttt ggggnttttt naaaantttt nnaangggnn 720
ntatntntgg gnnccttntn naattccagn ttnntnccan nnttngaant ttnnccccct 780
tnntngggna aaaanggnna ttgntttttt tn 812

<210> 4938
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

<400> 4938
ttgaaaccct ttgaaacctt tttgcaanct acttgttctt tttgcaggat cccatcgatt 60
cgcaaatacc taatgcatgt ggggcttaaa acctagatga cgggtagata agtgcagcaa 120
accaccatgg cacatgtata ccagaaactt cacattctgt tcatgtatcc cagaatttaa 180
agtaaaattt aaaaaaagaa acgtactgga aaatctgaat agaccctctg ctggaagcat 240
tatgaaaagt aaataaatgg atatactgca tcatcctcag aaaaaataaa aaagaaagaa 300
aatgcctgcc cccttctgcc cacaaaacag attaagcagg ggctcattgt tggtgtcaga 360
agagttgagt gtaatacact gatggtatgc acttgatttt agaaatatct tactggtgac 420
atttctgaaa atttgccaac tcataatttt aagaatttca aaatgtaagt ttttatttaa 480
ttgcatttga attctactaa ttgcatgtaa ttttttatta ctaattcaga actaagaata 540
taggccttaa attcctccta aattaatgtg aggcattttt cctaattcat tgtcacgaat 600
tattatgaan gtcatctgct gtattacagc agtccatact cgattgttcc ttctgtgtct 660
tcagataggt tctttttctt ttcctgtgag tatgtaaaac agcaaaccaa gtagatgggc 720
ttattttggt acatccatac ngaggaattt tatgggctta ttaaaaggat gcttacagga 780
gat 783

<210> 4939
<211> 1150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1150)
<223> n = A,T,C or G

<400> 4939
tnccgttnnn attnnntgtg aacccnttct tcncacctnc ctggntgnga atnctgcacg 60
agaggcattg nctgccttcg gctttatttc tgctgactan ntatctccta ttnagagcta 120
cggcaatgcc caaaagaaag gctgcaggtc aaggtgatat gaggcatnga gccaaagaga 180
agatctgcca ggttgtctgc tatgcttgtg ccagttncac cagaagtgaa gcctnaaaag 240
aacatcaagt tcnaggaaaa tgaagacnaa nagtgatntg atggaagaaa acatagattc 300
nagtgcccaa gccagttgct gaaacccaag cnagaagcaa gttgttgaag aagactacna 360
tgaaaaatgc taaaaaatng gagaaagccc naaatttcna gangcnccca gctttcttga 420
aaaaaagaaa ttgttgggaa nntttaaaag gaatgaanaa ttatttgaac gattgccccc 480
nannaanaag ggggtnggga tgaattagga annggaaanc ccgttnncca tgcngcgaaa 540
ntttnaaana natnggtatc naacgaattg cattctcnaa nnggaaagtt ttgcantnan 600
annattcnnt anaccgnaaa tnatcaaang gggnnngaaa gccctttggt aannaatgta 660
tgngtccctt ntnggnttgn aaaaaaaaan gggnggggga aatagtaaag tnnttngngt 720
aaaatangnt aggggatttn tcaacnaatt tngngganan anattggnag ggnaaanaan 780
ggngcncnna taactaaatt gcccnnanta tggtnaanct tanntnntgt nntngnatan 840
ngngggnnac nntatattta aaanggggcg tgcgnanatt gaaccngggg gtanaaaata 900
tggggnaaaa aatttggggg aatataaann tantttgngt atanaanatc nnttnntnan 960
anaggggggt cttatanggg attnngatat caatnntatt natggtgcaa tgtntaanan 1020
cacnctcgnn aaaaatcggg ttaaanaccn nagggtcatg anatntngtg gnannatnca 1080
gntggttaaa tttngtanat atattttggg ngtaananng tcttgcttaa atngggnnta 1140
ggtcatttcc 1150

<210> 4940
<211> 991
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(991)

<223> n = A,T,C or G

<400> 4940
ggnnngccgn nancnggacc ntcancgatn tnnacnnttt gnnaaccccc cccccgagcg 60
cgggcggnga gcnngtgata ttnngannag atggaaacan ctcnagttgn ngccttttnt 120
gtcaccnnag tgcgaggggg ngnatnggtn nnaananacn tcnctnccan gncctncntt 180
anancaccca tctaaancac aaaattcntg aagnggccgn tcagtnnngg canacccggc 240
ctccnagnta tgtataccct gtctgttcnt atngggatnt ntnctccatg tgagatatan 300
gatgcgtgcn atncgtaaaa ggnggtgcna gtgctncttg tnaggncccg acacattang 360
cgcttantcc nttaattagn ganccttgcn tcangggaaa ngggcttttc tatngaatgg 420
ggaataanat aatgggntan nncttttttt naanctcccg agctcnanta angntgctta 480
atggngcanc tacaatnctc cganacttcc aatgtgggtt gtcnatannc nacccttnna 540
ttgncggggt ggtccaaaag aantgcaaat tcctacctct tgggcccatc caaangaccc 600
ctttcaacca tgncnctttn tcgnncgggg agagaaacna tnnccngggg ggtnaaaagg 660
cctcnccccc cntntntttt caccccaana gggggnaata nanangttct anctccntat 720
nccttttcca agcctatttn ngttnggggn gggngttngc nntntctcca atangccccc 780
aaagnatttt catttgttta ananttnccc nacnttcctt gatttttaaa aanataaaaa 840
tgttcctnnt aagangaaag ggnngnantt nntaaacnaa agcnnnaaga aagnagaaan 900
nccttttttag aantttnnta nactnttcnc aaatgnngan antacctnat tcggggntgg 960
tnnctnntna tnttggttac gantggctgg c 991

<210> 4941
<211> 1075
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1075)
<223> n = A,T,C or G

<400> 4941
cnnncttcnc ctcnntgaac cnntttgnaa accncccntn atgcaggatc ccatcgattc 60
gaattcggca cgagggctgc tggagctggc aaggtcacca ntttttgccc agaaagctca 120
gaaggctaaa tgaatattat ccctaatacc tgccacccca ctcttaatca gtggtggaag 180
aacggtctca gaactggntn gtttcaatng gccatttaag tntagtagta aangactggg 240
ttaatgataa caatgcatcg taaaaccttc agaaggaaag ganaaatgtt tggnggacca 300
ctnnggtttt cttnnntgcg tgtgggcanc tataaaggga ttagtnnnca aaaatcagta 360
ccttttttaat gggaaaacaa cttgacccaa aaaattttgn tccacaagaa aattttggag 420
gaccccattn aanaangagn ttaaaatnga ggaaaaanaa aaaacgngcn tnagagaaaa 480
cttccggagg cccctcttaa gaacctaatt aggtggagga tccgnaattt naccggncgg 540
gaatccccaa gaaccaatgg gaataaangg gattacccnt ttnggattgg aagccttttg 600
gggacccaaa aacccaacca aaccttaagg naaatggncc anntnggaaa naaaaaaaaa 660
tggcccntnc aaatttnggg gnggnaaaaa ttnanggngg aatngcctaa tngggccttt 720
gaaatnnnnn gggnaacccc anttnattaa aggccngggc aaagtnnaaa cccaaggntt 780
nngacccaaa ccaancccaa attgggcaat ttccnatntn nnaaanggnt nctccanggg 840
gnttccaacg gggcgnaaan gnnnnncnnc nnacnnnnnt nnnncaannn acnncnancg 900
nnnnctnnta cannantnan aannnntnnn nccnncnnnn cncnccanna nccncnnnnn 960
nnncanacnc ganannncnc nnnnncgnan annannnccn nnannaancn ncatctnann 1020
nacncaanna nnananannn nnnnnnnannc nnannncnnn nnncnnncgn cnacc 1075

<210> 4942
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 4942
tntttcctta cnaccagcta ctgntctttt tgcaggatcc ctcgattcgg aaatatagag 60
agatgtggga tttgaatgcc catgaaagac attttatttt acttgaatat attcttgctt 120
cactttaccc tccataatat gttgtacatt agtgctgatc aagtttacag agttacattt 180
tgctttccta accattcagt caggaattaa aatatggcat tgtataacaa ctgggaagaa 240
gctcatagtg gatataaatt agagtagata atgggtcacc ttgatagcct ctgtttacat 300
tacttgtata tgggcaaaat aattattacc tatacgtgta tttaagctta attttcatat 360
aaacagtatt tttaatctat gttaaaatag ataatatcta aaagtgtgat ctctaggtag 420
tccttagttt attagtactg tacttcaaaa agatttttaa ataggtccgg cacggtggct 480
catgcctgta atcccagcac tttgggaggc tgangcgggc gaatcacctg aggtcaggag 540
ttcgagatca gcctggccaa catggtgaaa ccctgtctca actaaaaata taaaaattag 600
ccgggcgtgg tggcangcgc ctgtaattcc cagctactcg gggaggctga ggcnngagaa 660
tcactttgaa cccanggggc agaaagctgc agttagccan aatcgcctca ttgcactcca 720
ncctanggga cangagcgcg n 741

<210> 4943
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(887)
<223> n = A,T,C or G

<400> 4943
annnnnanng nntnnnnngg nannnnncan ncnannnnnn naggnnannn nnacnattcn 60
ccccttтcct aanagacttg gcnactcngc nctntccgca agnagnnnng cgttnncggt 120
tgngaggaaa tccaaagctg accaaaacat ggtccccacc ttttggagct tacagtctgt 180
actggggaac agagattcag ccaaagtcaa gaaacactgg atgccagcta gattatctgt 240
tctgtgcttn ggtgtctata agtacatatg nggatatggg ttcattnnat ccctaaactt 300
agtaccaaac cagcatttaa tatctaatta taaatctaat tnggcctaaa ctttattatt 360
gcacactgcc tgaacaaaac ctatttgcct ctatgtaaat tttttcctca tggaacaagg 420
gngngaaatg aaaatattnt aggatttatt caaaaacaga ctattctgnt ntcagctnca 480
gaantgnacn atgaatccta aggaaccntc tgccaacang ttgaggtntg ctgnncgaaa 540
agaaagaana aagaggcggn aanntctcag ggagaaanta nnnccnntnc ttttctatnt 600
tcagcanacc ntggaggggt gggcgagaan caagaantgt aaagggagga tcagaaaatg 660
gggaatnctt nggcagctgt nngaanatga tgangaagaa nctcnnnant ctcagttncc 720
cntnngnttc cctatnaact nttggataaa atnngggntt nggccaccaa aannacnnnt 780
gcncncaaca gcttcattgg ncccnaatnn tccaaccnct gatcggnnna cnntcaaaag 840
gctannggan ccgtnncgtn tanaantngn aaacnangcc caccccc 887

<210> 4944
<211> 1201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1201)
<223> n = A,T,C or G

<400> 4944
ncccccacnn cnncnnacac nnanacnacn cacacanann nccnancnnn nnncncancn 60
aaccnanaat ananaccncn cacnccnnan ancanacann nacnnncncc anacnaanaa 120
aaaaanctnn cannnnnana nacaaaccnn ganaganagg ancnctttтn cnaanaaaan 180
acncgggnan nnnncnggaa angnannaca cgagagngna nactngtnaa nagccccttt 240
tgcnaaaaac nccttngggc aaaancnccc gcctcannac cananagnnc atngnncncn 300
ntacnacgcc naancatccn aatgccntca gctannnngn gggangnggg gaaccccaca 360
acanaacnan anannacncc nacctacncn acnacannna acnngaccat cactccaacc 420
aggacaacnn caacaaacta cnnananccg acnaanatct nancacancc ctctancaac 480
cannacacca acaccaacnc ctncatcnac ancccacaaa aggcacnaca ccncanaccc 540
catcaccatc acanccaaaa aaaatnnnng ctccnaccac nccacaacnn ncagtnacat 600
cancggaaac cangattaca nnanngannn caaacancca tcgcncncnc ntacaacagc 660
gnnaannaca tccaaaccnn gaanccaaaa ncgacaacat nttatnccca acaanagggc 720
aacangaaca accccncgan angnganaan atanacngaa aaangcnata ntccnatcac 780
ccaannncan aaacacntnc tnnncccngg nacannncca taaaacacat agccctnaaa 840
aacaacnncn naaaacccag acnnnanccn caaaaccaaa anatctcgcn anaaactcta 900
ananatcnaa ccaannanac taanacncnt canaaaanag cctcnacgga ggaaaaaaan 960
aacacctann acaaaacanc accacnntgg annacaaaaa anctcncnca aggcnctcta 1020
canttaaaaa accccnnnac tncacacncn cccacanaca canacncgca acctcanntn 1080
tcaaantaaa atcnacacan acnanccact anccnnncaa nacnantngg angcaaancc 1140
cnaaacccnn tntntcnann nngncccccn aaccctcnca naaatnccaa nacaancanc 1200
c 1201

<210> 4945
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4945
cnttttnttt tcttttcaac angctcttgn tctttttgca ggatcccatc gattcgaatt 60
cggcacgagc ccagatgggg gtgtttttca ggtctctcac aaatgagaca agcgaaacaa 120
ttgtctcctt ttattctctt tggtgcattg gtgctgggga aacatgaact agcggcagtg 180
taactgcaga acatagaccc agttctacca ggccaggcca gcactgggaa ccgccagaca 240
gggctgcttt gggctttgct tacagtattt ccatgtgtag cctggcgtgt gagaaagtat 300
taggtgaaat gccagtttca tggttcaggt gaaagtctgt gatcattccc ctcgtggctc 360
gtccttcaca tcacttttgc ccttcaagga gttgccgcgt ccccgctcag tgcccgcctg 420
agccctcaga gctcccctgt gcttttctgg atggggactg gcggggtcac ctagcctcac 480
cgtggagcca ccgtgcaatg cccatctctg agaggcccac gcagtattcc tcgtgccctg 540
tgttagtgcn ttctgtataa gggacagaca gaactgggtt ttttttcctc tgcctggttt 600
tagagttaaa tgtaactaac ttttatttтt ccccttatg aaagatagaa aattattttt 660
atggtagttt tccaganctt tatacaaaaa ttttttgtta aaaatgttct ctgggaaaag 720
ttaactncna cgaatgtaaa atattgcctt ctaattaaaa taaccannn 769

<210> 4946
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)

<223> n = A,T,C or G

<400> 4946
cnttttnttt tcttttcaac angctcttgn tctttttgca ggatcccatc gattcgaatt 60
cggcacgagc ccagatgggg gtgtttttca ggtctctcac aaatgagaca agcgaaacaa 120
ttgtctcctt ttattctctt tggtgcattg gtgctgggga aacatgaact agcggcagtg 180
taactgcaga acatagaccc agttctacca ggccaggcca gcactgggaa ccgccagaca 240
gggctgcttt gggctttgct tacagtattt ccatgtgtag cctggcgtgt gagaaagtat 300
taggtgaaat gccagtttca tggttcaggt gaaagtctgt gatcattccc ctcgtggctc 360
gtccttcaca tcacttttgc ccttcaagga gttgccgcgt ccccgctcag tgcccgcctg 420
agccctcaga gctcccctgt gcttttctgg atggggactg gcggggtcac ctagcctcac 480
cgtggagcca ccgtgcaatg cccatctctg agaggcccac gcagtattcc tcgtgccctg 540
tgttagtgcn ttctgtataa gggacagaca gaactgggtt ttttttcctc tgcctggttt 600
tagagttaaa tgtaactaac ttttatttt ccccttatg aaagatagaa aattattttt 660
atggtagttt tccaganctt tatacaaaaa ttttttgtta aaaatgttct ctgggaaaag 720
ttaactncna cgaatgtaaa atattgcctt ctaattaaaa taaccannn 769

<210> 4947
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 4947
ntttcaaatc gcttggctac ttgttctttc tgcaggatcc catgcgattc gctactgagc 60
ctggcttgca actggggtga gctccacctt gaacgtcgat cctcctgcct ggtggagcca 120
tcccagctga tgccacatga agcagacaca agctgtccct actaagctct gctcaagttg 180
gatattcatg agtgaaataa atgactgtta ctaagtnaaa aananaaaaa aaaaactcga 240
gcctctagaa ctatagtgag tcgtattacg tagatccaga catgataaga tacattgatg 300
agtttggaca aaccacaact agaatgcagt gaaaaaaatg ctttatttgt gaaatttgng 360
atgctattgc tttatttgta accattataa gctgcaataa acaagttaac aacaacaatt 420
gcattcattt tatgtttcan gttcaggggg aggtgtggga ggtttttaa ttcgcggccg 480
cngcgccaat gcattgggcc cggtacccag cttttgttcc ctttagtgag ggttaattgc 540
gcgcttggcg taatcatggt catagctgtt tcctgtgtga aattggtatc cgctcacaat 600
tncacacaac atacganccg ggagcataaa gtgtaaagcc tggggtgcct aatgagtgag 660
ctaactcaca ttaattgcgt tgcgcttact gnccgctttt cantcgggaa acctgtngtg 720
ccanctgcat taatgaan 738

<210> 4948
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4948
gncnncnctt ttgnaaancc ccttttnnnn aagnnccttn cnccttgcn aancgcttgg 60
gcaactcgca ntctctcnan acagcaaggn ctgtggcgaa tncggcacgn agccgccnnn 120
tctncannen ntgtcaggnn nnagnctgan gctancnnct ncnnantgcg nncnnngaan 180

cccannngac agcnnccnng cangcacgct nccncacngn acacaanctt taactaactg 240
cccnactncc aatgacgaaa acatntngga ntgactgccg aaantgcctt tccngatnta 300
accactagac natccatctg tatcacnnng ttnagccatc tttacngatn taagntccac 360
tgaacggctg agaaacttgn anaacacant gnacncgnnn aagnctngaa cacaactggn 420
ccaaggaaaa ctaanagtgc natantgnaa cccanantgg catccacana aaggcncttt 480
aaacntgcan gctcatcgtc aaagaatnat ccanatncct ggacactggc nggacacnnn 540
catgtcnatc natgaacaac ctanaggcnt tgcctangaa ncgctgccta ccactnnnna 600
tgatangccg aacannaata tctantnccn tcnnnctata nnnntcnaag nantaaagna 660
ccnnnntatn caagnnaann nannaancta gcacatgnnc tcanangaac ancaaattna 720
tacnnganaa tngtnccttn naaaacntcn ngggtanact tncncanntn nccancccct 780
aaaanntccc nnnnc 795

<210> 4949
<211> 784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(784)
<223> n = A,T,C or G

<400> 4949
ttnnttttt tggttaccct ttgctctngg nctttttgca ggatccctcg attcgaattc 60
ggcacgagcc ttccacggtt atttcacaga tatggagagc tggaagcagg gagtgagtct 120
ctgagtgttg gaattgtaag ggatcagaag cagggatcag aagcagtggt gaagttcatc 180
caccataaaa cacacaggtg actttgcctt gaatctgcag gactgaagcc aactcttggg 240
cacagaccct tagtcccttc cttggccact ctaagtcaga tagtccagag ccaggccctt 300
tgggatgtga caccgagata aatcagagaa aagctgtgaa gcttggggaa cagagggact 360
tttggtgaag taggtggtct gcagtttcta tcttcttggg aaaagcaagc tggaaaagtg 420
aacagtggtt ggtaggccat agtgctccca gctgggtgac ataatgacca cacagcacag 480
tgatgttatt agcaactgtg tggtggagta gttgtgggct ggacaaatca atcgtgtgga 540
aattgttagg agttttatta cattaaactt gttaacctaa aataccatca aaaaaaaaaa 600
ntncnnannn nccncccacc nancntncna aaaaaancct cganccttta aaaacnnntn 660
gnngaggccn tatttacgtt anattccaga cnttgaatan ggatnccatt tgnattgaaa 720
ntttngggcc aaacccccaa ccttngaatt gccattngaa aaaaaaatgc cttttatttt 780
gnnt 784

<210> 4950
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 4950
gttcttttgc aggatccctc gattcgaatt cggcacgagg ttatattaaa ttattctttg 60
tttttctttt tcttttaata aagcctgcaa gttactaaat tgtagtttca taaattctgt 120
agtaaagtat catcttggca gtgtgccaaa ggtgaaaatg atgctttctc taacagagaa 180
attcttagtg actccagtcg tagaaaaacg tctttacaac ctgaataaga ttgaagaatt 240
gtgaacatac catggcctat tggatgaatc atttgccgta ggctaaatca gactgtaggg 300
tttgtgatgg atttatggag tatgtgggta tagaaatcat gaatctagca tttgttttca 360
gagattcaag catagtcnta agggtagatc agaaatgaca aatgaattca aaacctagca 420

ggtgcattgt aaatgtgtgc ccagttatgt tttggaaatg gcagttcctt ggggtcatgt 480
ntctactggc caaatttgca atagtgttct atngnatgta atttctaaaa tttattagga 540
ttatccncgt tggccaagta aactgtctgc caatagaatt ctgggaattg tgagaaattg 600
tatcattgaa gttcagntnn gatgngtggc ttaaaaaatt tatcnnggac ccccanacan 660
ggaaacnana antatttngn tcctgcangg ttcattgcca cgggcannga aggtatttcc 720
cagaaaaata cctcnnn 737

<210> 4951
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4951
ttgnanccnt ttgaaaccct ttttanantt ctancataca agctacttgt nctttttgca 60
ggatcccatc gattcgaatt cggcacgagg gcnactntgn agaattcgta cngatganga 120
ctgcanaatg aagacctact ttcaacttnc ttttgncccc ctctagnaga atcaaatnga 180
atcttttact tacctctgtg caaaanaaag aaaaatgaaa nangtncatn tattcattct 240
gttnctatat agcaaaactg aatgtcaaaa gtncnttctg tccacacaca caaaatctgc 300
atgtattggt tggtggtcct gtcccctana gatcaagctn cacatcagtt ttacnatata 360
aatacttgct ctaccttaat gatgaggact ccttaaagnc ncatttgcta ntgatnaata 420
cactgctngg gctggccagt tttnnatgcn tgcagcttga cnantgagca cactcaggcc 480
tttgtnttaa aaatgaaaaa tgaaaaaacn aattcaaaac ctattcaaat ggnttctagn 540
caatttgttt agtataaatt gncatagctg gtttgcttga aaacaaacac atttaaaatn 600
ggtttacctc aggatgacgt gcagaaaaat gggtgaagga taaaccggtg agacgtggnc 660
ccactggtag gatggacctt tgagcttctg gtgctccgnc catggngacn atgacacacc 720
ctggnggcat gcccctgtat gtgngttaac gntgtctgca ttgtctaaan tgaacangtg 780
ttagc 785

<210> 4952
<211> 1523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1523)
<223> n = A,T,C or G

<400> 4952
gggggggngn ngcgnngntn gggggggggg gttnttcnnn nnnnntggng acaccccttt 60
ttttnggggg ganaaaaacc cnnggngagg ngcgngnggg ggctngnggg gannnctggn 120
nngngnggggg ngggggggcn ggnntggagn ngngnggngn cncgngngng ggcgnngnnc 180
gnggnggggng gggngggggt nnttttttttt tnggggnncng ngaggggggg ancnaggcgg 240
nnggggggggg gggggggngnt ggngttgcnn ggggnggagg ggggnggggag gnngaagggg 300
aggnggcggg gannggcggg cagnggaggg gggncgnggg ngggtggcgn ggnggnggcg 360
ggngngnggn gccgnnttnn gggnngcgcg gcgnctnggg cgccggcggg gangngcgcg 420
gncgtgngag ggnagacggg agncgnggca nngagctgnn gtcnggngcn gggcggggcg 480
nagngagnag gctcnatngg ggggnggcgg ggngtgnggn ggggncnncg aggngggggа 540
nnaggcgtng ggcnggntcg nnggngcggg ggcgancggg gagnntgngg ngggggccag 600
gngngggngg ggggncgggn ggggngnatc gcnnngcgnt gacggngtgn ncgggnccgg 660
cngggcgcgc gngancncgg gaggaacgnc gcangggggn cagtggtngn gngccgangt 720

cngtgtngng cgagnggngn gagagggagn gnngntgggt ggggncgagg ggatggccga 780
gngtcngnng gggggaggng gnggngnngn nngagggcgn tngnntggct nngggggccc 840
aggngcnggc nnngcgnggn aggggngnnn gggnaggcgg gcntgggntg gccaganagn 900
gnnctggggg ggntagagng cggngnnggg gnnnntgnng agacgggcng agcgggcggg 960
gcagaggngg gacacagcnn cggagngngg tgnatgnnga gangagngng nnnngtggcg 1020
nacggttagc gggcngcgng gagagngagg tgncgntggg ggagcnntcg cgngctagag 1080
aggcngcggc gnngngatag gnggggnnga gcntgngnng ganncggatc tagggagcgc 1140
gagtgggngg nggtngacgn gagggggnng tgntnggaga gnggggngagc cgngngcngn 1200
tgtagagagn cagnggcgtg ccgngtgggc anagggcgng tgcnncngta ganatggntg 1260
nngcnctgcg gcgngcgagg cnntaggnng ngtgnngngg gangagcgng tgtgggcgng 1320
cgcgnnnggg ggcggcngag tgacgntnng cgcgatngnn nggccnccgn ngcggncgca 1380
gangngangg gngnngcnnn cgcgnggaga nngnnaggna cagggcgagg gangcgangn 1440
gntgtgtgnn aggngcggnn ggt 1500
1523

<210> 4953
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 4953
gacttcnctt tcnaanannc tnggaagctn antnncctaa ananaaggtc ntgggcgaga 60
gttctggatg agacttggta tggtccattc tgggacaaaa ttcctctctc tctctctctg 120
cggacccgtg aaatctagaa aataagttat ttgcttctaa aatacagtga tgggacagac 180
ataggataga cattcccatt tcaaaagtga gaaattgggc caggtgcagt ggctcacacc 240
tgtaacccca gcacctgtaa tcctagctcc ccaggcggct gaggcaggag gattgcttga 300
gcctgggaga tcaaggttgt agtgagccat gattgcgcca cctttattgg gaaacttta 360
ttccagttac caataacaca ttcctcattt nctccagaga cctcaccaga aacaccttta 420
atattcatat ttctagcagc cttctgttca taacaatata tgcatcctgt taagatgata 480
ggagatttct cttgcacctc tcctctttgn gagcctgcan gggacattcc cttttaatgt 540
ccatatttct accagcagtt ctcttnaaag caagtctaag gtntttccta acattacacc 600
tnaaaattct tgcanntntt nnccaagcac agtgccttac atctggtaat tcctaacact 660
ttganaaggc cnaacatgga acaggaatgc ttgagctcaa ngagttcaag accagcncgg 720
gcaanattat ggaaccctnc cttttcnaaa aattncnt 758

<210> 4954
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 4954
tgagncnttn nancctttg aaatttttan acagctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga ggttgctctt ccatgcgttg gtcaggggc cctgaaaaca 120
ctggtaatat taagagtctt tctcagggta acttaatgtt ttcttaatga acaatgtttc 180
cagctacaaa ttctttcaat aaattgtctt ccttttttgaa aagtactctc atagaagaaa 240
tttagcaatt tctcgttgac tgactcagtc tattttaagt attcagaaaa gattttgatc 300

cccattgagt taatgctctg ccttgaaaat tatttttctg atccttgtta gtgataacat 360
ttttttttcta ctgaaggtca gaggatanga aacaagtatt tctcttctgg tatacatgta 420
atgtattctg taaaaaagta ttcatattgg caatttttagt taggcataat attgtggttg 480
taatttttaa aacttagtgt tttgtctgat taaagcangc actgatcagg gtatctccta 540
agaggtaatt cacttcttat tcctttccaa taattattac attctaaatt ttcatctatg 600
agaaataaca aacaagaagg gaatagaatt aaattggggt ataatctaat cttcattggt 660
taaatggttt gccttctccc attgaagcca ttttttatag cctcanaaag aggaaataat 720
gccttcaccc attttctacc tggtgacttg aaaaatggac cttttaagtt aggaagaagt 780
t 781

<210> 4955
<211> 939
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(939)
<223> n = A,T,C or G

<400> 4955
gnnnttctaa tttcctaaat ggctgggcta cttgttcttt ttgcaggtat cccatcgatt 60
cgaattcggc acgagtgaag aggaaaaagt tcaaaaaata aattacattt tataaataag 120
gcaaggaact ggacattacc tcacatctgc aattccaacc ctctgggagg ccaatgcatg 180
tcattcnttc cnatanntnc nactcnagac acatgatgtg attcacagaa cnaganaang 240
nntccaccta ctgtcctgnt tnangnnggg atgctncata aagaggatna cnnttaancc 300
actaacagtt atgcctntna tcttgaatct gttcctacta gttttcgtnt ncctgggcnt 360
gttactttat gtttccttnc ntcannttac ctttaatatg anaatantna tnattntttn 420
accatggtcc cttacttnan ngatantttt ntnatnnntg catngnnata nnancntnnn 480
gtnctttcnn cantntaaat tcttaannnt nntcnttatt cnntnttcnt ntntntttnn 540
tnattnnnnn ntntntacnc ttannttccn cnacatcanc caatttttnt nntnnnttnt 600
tncannanaa ttnnntnttt tnatanattt tnntntactt ntgnnanatn gggntnattt 660
tncntnncna antggttnnn nnnnttttta ncncnnnann naacntcntt tnatcnnttc 720
tnnnatnnnc nattnattan tctntnnctn ttnntatcna cncaattncn ntatnntnat 780
ctntatannt tnnnaatnnn tnanantacn tntannntnt tctntnntnt tntanaatcc 840
nnaatntatc ttntnttnnn nntctaaaan agctnttncc ntttnnaatc ncttntntnt 900
nnattntntt ttantctnta cnanactttt nttacttcn 939

<210> 4956
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 4956
ttgancctttt atacagctnt tgatttgana cctttanaca gctacttgtt ctttttgcag 60
gacccatcga ttcgaattcg gcacgaggga acatctttac caccaacgtt ttacctctgc 120
ttcaacaatt tggccttgtc aaagacacct gctcatatgt aaatgtggaa gatgtctcag 180
gagccatatc acatctgtcc cttggggaga tcccagctat ggcacagccg tttgtatcct 240
cggaagaacg gaaggaacga tgggaacagg gccaggctga ttatatggga gcagattcct 300
ttgacaacat caagaggaaa cttgacactt acctccagta gaaacactgc atttttctgt 360
gaacacatcc acttcacaag ccttgtttct gatacttagt atctagagct gggttgagaa 420

aagtctgtta cagttgctag aggttttcat taaaacttat cagatgagag gctttttag 480
gataagaggt gagaactggg caaaagttgt gaagcagcaa ttctgttata tggacagtgt 540
tctgcttttt aatcctattt agcttgtttc agaaattctc acttttgttg actgccaaca 600
tacaaagtaa gggaaactca agatattaag atggctgtat cagttcttaa aatctgcaga 660
gcctggttca aaatcagtca ctcccttcag aagcagacat ggcatctgtt ccttgcttgc 720
ttgttggttg tgtcctttca cgagacctga attttagaat tgcccagtgc tgccagagtg 780

<210> 4957
<211> 1210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1210)
<223> n = A,T,C or G

<400> 4957
gtnnnaacng ttaacncntc tgtctttgag gtccatcgtt cnatcggacn agtatgnatg 60
catncctccc ctgtgcgatg agnntgncan gannnacagc acatgggctn taggacnttn 120
angtgcnnaa nctnncngan tgnnncngca cgncnacgng ctncttgccc gcctaangtg 180
aatatcgtnc ncgacatgna gtgcatcang agtganngag cccctngcnt gaatgtatnt 240
cgtcntcaat acnntntatc gccnacatnc cttnancntn gctaccactt cagcatgatc 300
ccactgctcg aatttgccat tcngtaattc cttaacnagg ngcntgnaan ngcggaaacn 360
ttngtccaag tnganacccc tagctcttta naagcgnttn tnnntgggga aaantnccan 420
ncctnggnga caagantngg atttttaacc caattggggg aaacccgcct tgggcncact 480
ttgnggattt nnccccaaaa ttttcccncc cttggganta aaaannncntn ttttcaaggn 540
gagcgggcct tcancanatt nccngttaaa ggngntttct gattcaaagn ccntgnccgg 600
tggaantcna ngnggnanag ngnaaaaaat tccnttnggg nactgcanaa attncnncgt 660
tcggattggg ngnnntntnc cannanggcc cctgtntccc atangggngn aaaactccgg 720
gccantttt ttttaaanaa aacctnggga aantcccntt tnttaattaa ncaccctggg 780
gacgtccana ttgggggngng acatttgcnc natggcntta gcctatantt cgtaccncng 840
aaaaatcggg agantnccct ttganaaant tntnccagaa acntngccnc anaacctttc 900
ggncnntggn gtttggtcaa ttgaaaatcc aaaaattann tggcccctgn nagacnggnn 960
ntcaaatagg ccgcttnntg gtacttcncc taaacaatcn ttngntagng cattngcgct 1020
caatggnaan ttcancctnc cngngnacnt ngggaanngg attttaaacc cggaaaaant 1080
ttnaaccnna acnactgggc tcatnngcta cttggnttcc attaaacccg cnnntgatta 1140
ncgggnctta ncagnacttt gcacggcnat gcanctagtg acccggnnng gttncaannc 1200
ttcntntgcc 1210

<210> 4958
<211> 837
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(837)
<223> n = A,T,C or G

<400> 4958
ttttttttac ttaacatntn ngcctactcg gnnctttttg cagggatccc atcgcnttcc 60
gaannncngn gccgagggtg tggntccaag ttntncatga ntagcaacna ganggtgtng 120
anatnantgt gtaaggctgn gaattcttgc tgnaggaatc gnagaanacc tgntgctgca 180
aaatcntaca tgttccacat gganagggaa gnctaancgc tattcanaac anttcnnttt 240
tgtatttaat taancnattg cagctatctg ggattttcgg gncagaatat taanttcctg 300

gntgattctn catattccaa tgnatnaaat ncanaaccat tgngnctttа agatngtgtc 360
aatnttcacc taacaactng tgccnnaagc acctgcattg gtaatnatat ttcncttaaa 420
gggcaaattc tgncantntc ctgntaactc aaaagtgcat tnttccnctt caaaaatgtt 480
gntctcagtn atcncacatn ctgcaganat ntatttatat ctatacntat anctnnntga 540
aatacnntta ctcacnaaat ntattnctga tnaacattcc catgttaaat ctnangcccc 600
aaacctttct aaattntggc ccctnanncc nttaatattn taaaaaaatc taaaattctg 660
nnntttcaaa tttgnnctnt aagcnttntt aanaaatntt cncnaccntt gcctttccaa 720
taccctnccc cttggnttaa cnaaatttnc tttnaatanc cntcaccttc ananactgga 780
ttctctttca aattnnntct ngcntcgaat cattantaac ttttgggnct ctcncct 837

<210> 4959
<211> 1302
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1302)
<223> n = A,T,C or G

<400> 4959
gnccggcgcc agtgcngtac ccanagcaga acgacccgta aaacccccttg ggaangnccg 60
ggacgggncn cnngngccgn nccncacncg cncncnnnac accccntttt nccccccattt 120
tancaccann atngncnnan cangggggng nannacngng naaaaccccng gngagnnccc 180
nnccgcnggg ganncanang ngcngnnaag naaccnggng cnncaancan ccngngcgng 240
cccacanaca cnggccanaa gananacgca agcgnacgcg gncgaagncg ggngnacagn 300
aanaaacnnn cngcacngcg naaaangccg cncaacanna gcnaagggng aacgngacac 360
ngccngancn cncgncggan ncacngannn ncgcannanc gcacangagc gganaccacc 420
cagcnngcca naangcggca canacgncnc ggggnnnncn anccgngncc canangnnna 480
gacncnggna cacccnncca ccccnangcc nagannncan aannccnagn nacccnagac 540
annacnnnnn gannnccnnn cnanccgagg nacannncng nanngnngac ccnnnnctnn 600
nnngccnana nannccnnac ancncccccа nccncccgag ngaaacncnn naangaccan 660
cncaanacga cnccncgaca nnacacnngn gcccancnaa nncaacacna agnnnaccan 720
acngcncnnc gnacnaaacn ncacgcncgc ggagcccgaa ccaacgcacg acacgcgacg 780
accgancanc aagaangnga ccncacacgn agcgnccnnn cgcgcgnanc gccggacnca 840
nngacanncc gaanaganнc gcggnangng cacgaancaa cggccannng nngannggagg 900
agcnacaacc ncnacggang cgangccgna nagangacgg accaagacnn gaanaccgnc 960
gaggccnaac aaacggncga cgcccgcgga ancncacnan cncngnnggn cannc nngac 1020
ccngananca cacancgcnc accacangnn ngnggaacac gacaangcca cgnacanaac 1080
gacgaagcan gaacanagnn gncgcaanng nnancnagnn nggaanacac acncgaaccg 1140
aacacanacg aagnaanacc aagagcanna gnagaagcnn acacagacac naaacngnaa 1200
ccggcccnna gnancccanc gcncnngcan cagngcacaa naanncggan ncccacgcca 1260
aaacngcnac agnncgcaac gnangncncn acgccanacg cc 1302

<210> 4960
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4960
aanaacgtaa ttnaacgcta gcgctctngn ngatccngna gntctntcnt tcttccaatg 60

ccngaananc tgcnntggna tgnngctaca tgnatctagg tgttgangct ttacncgcna 120
gttgncngat gacgcntggc anangnccag gntntnnnta natccnaaca ncatantgag 180
gnatnggatg cctacnngca gagncgacag aactcacgct ntaaaannag gcgccacaca 240
cgggacgant acgtnagaaa naatncnntg tgngtgtnnt tcctactcnc ttactcacag 300
cncatcagaa ggaagnngac nacnagctng aagcnggctt nataccnnat atcgncngct 360
acancctgng ncaccactgc catngcgatg ctnnactnca nctaattnta ccatnnanga 420
tgcntcatgn acctgnncta gcnccggcan ncttntggng gcccctatnn tagagaacgg 480
cttnnctcca cactgtaatg gtagngattg tggatnttcc tctatcatgg aagggganttg 540
aaacngntnc nctggagggt nnggntgtng actgcacttg nagcattcgn attcatgntg 600
anctcggaga ttnactctgg ngttccatca actntgantn caaacangat gatcnnngat 660
taggncgntt tccaatgttt gngccaaatt tgttaanann aacnacngga ttncaantta 720
anttggnnaa nccntnttaa ccnttcgggc tcntgctcct nncntngcc 769

<210> 4961
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 4961
tnctttnntt actttcgctc ccgttctttt tgcngatccc ncgattcgaa ttcggcacga 60
gagagggtgg ggtctggcca cataggtacc tctgtggctc tggtctgggg ttagacactg 120
ttagggacta gcatttattg gacttgtaaa gacagcacct cagaattagt aactacttgc 180
attttagggt ctgttttatg aagccaacaa gtgaatgtaa aataggctct gcatcttttc 240
tgagagccct gtcactgggc agtgagcatt tccaaaattg cagctctgtc agaatgaacc 300
atgaatactt aagaaaggga aagtaggaac agggagcaga gcaaagcata acttgctgtg 360
ttccagggat ttaaaaataa attactgtca agagcaatat aagggtcatg ggtttgatca 420
ngaacttttt tgtaaatgaa aaagttcaca attttggnaa aaacagtgct agatgtgtta 480
tggaaattgt tatcacanaa ttcttccncc tgaaacttca agtttntatna agacaaccaa 540
ntatatttgc ctgnngaaat tcttaaattt cttgnncctt atngggaaag gtnaacccaa 600
nacnntcang naancccatt cccntttttt tggcntttgg aaacttgncn acccggttng 660
gncanccccc aatttttcnt aaaaatttaa tggtaaaacc ttttnanacc cantatcant 720
nnnnnccatt ancnaccccn ctncatntac cccngccccn tctncttnaa tanaaacttc 780
tcngntgccc ctttttnnaa anaantcttt tannnncgaa ccccentctt tttcccgcnt 840
nnatattncc ncatcccttt tgnanttcac ntactccnnt 880

<210> 4962
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(880)
<223> n = A,T,C or G

<400> 4962
tnctttnntt actttcgctc ccgttctttt tgcngatccc ncgattcgaa ttcggcacga 60
gagagggtgg ggtctggcca cataggtacc tctgtggctc tggtctgggg ttagacactg 120
ttagggacta gcatttattg gacttgtaaa gacagcacct cagaattagt aactacttgc 180
attttagggt ctgttttatg aagccaacaa gtgaatgtaa aataggctct gcatcttttc 240
tgagagccct gtcactgggc agtgagcatt tccaaaattg cagctctgtc agaatgaacc 300

atgaatactt aagaaaggga aagtaggaac agggagcaga gcaaagcata acttgctgtg 360
ttccagggat ttaaaaataa attactgtca agagcaatat aagggtcatg ggtttgatca 420
ngaacttttt tgtaaatgaa aaagttcaca attttggnaa aaacagtgct agatgtgtta 480
tggaaattgt tatcacanaa ttcttccncc tgaaacttca agttntatna agacaaccaa 540
ntatatttgc ctgnngaaat tcttaaattt cttgnncctt atngggaaag gtnaacccaa 600
nacnntcang naancccatt cccntttttt tggcntttgg aaacttgncn acccggttng 660
gncancccc aatttttcnt aaaaatttaa tggtaaaacc ttttnanacc cantatcant 720
nnnnnccatt ancnacccn ctncatntac cccngccccn tctncttnaa tanaaacttc 780
tcngntgccc ctttttnnaa anaantcttt tannnncgaa ccccntctt tttcccgcnt 840
nnatattncc ncatcccttt tgnanttcac ntactccnnt 880

<210> 4963
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4963
tctttttttg gaacccnttn tngctctttt tgcggaccca tcgattcgct ctggagtagc 60
tgggattaca ggcatgcacc accatgcctg gctaattttg tatttctagt agagacaggg 120
tttcgccatg ttggccaggc tggtctcaaa ctcttgacct caggtgattc acccacctca 180
gcttcccaaa gtgttgggat tataggcgcg agccaccatg gctcagcctc atgttcgttt 240
ttaaaactta ggatggtggc tcttttacat tgattggtag gaactcttca tattacgagg 300
cagttagcta gttgtctgtg aaataaaata ctaatgattg aactttctag gaagtaccta 360
ttctgctaat agtgtaaata tacacttatc cagggtcaga aatactcaag tttacccact 420
taaaagatct agaaaataca tgaacttggg cttacttgcc agttaaaatt gnttatctca 480
gaattgtacc atcaccttaa ttaaagtaga tatgctagga ttatcctgat aactaattaa 540
catagccttt ccccttagt gttcttcacc tgaatgtagt anttgnactc ttcaagtcta 600
gcanaggcca ataaaaagtt cagagttnca naaacatcaa ancctnntcn ancncnnnna 660
tannnncctc actcacatcn ncncatcccc acntacaaac ncacnnnnnc nncccnntnn 720
ctncccentt acnnctacct cnccnttccn tcnnaantcc ctccncacgc ncnncnnt 778

<210> 4964
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

<400> 4964
tctttttttg gaacccnttn tngctctttt tgcggaccca tcgattcgct ctggagtagc 60
tgggattaca ggcatgcacc accatgcctg gctaattttg tatttctagt agagacaggg 120
tttcgccatg ttggccaggc tggtctcaaa ctcttgacct caggtgattc acccacctca 180
gcttcccaaa gtgttgggat tataggcgcg agccaccatg gctcagcctc atgttcgttt 240
ttaaaactta ggatggtggc tcttttacat tgattggtag gaactcttca tattacgagg 300
cagttagcta gttgtctgtg aaataaaata ctaatgattg aactttctag gaagtaccta 360
ttctgctaat agtgtaaata tacacttatc cagggtcaga aatactcaag tttacccact 420
taaaagatct agaaaataca tgaacttggg cttacttgcc agttaaaatt gnttatctca 480
gaattgtacc atcaccttaa ttaaagtaga tatgctagga ttatcctgat aactaattaa 540

catagccttt ccccccttagt gttcttcacc tgaatgtagt anttgnactc ttcaagtcta 600
gcanaggcca ataaaaagtt cagagttnca naaacatcaa ancctnntcn ancncnnnna 660
tannnncctc actcacatcn ncncatcccc acntacaaac ncacnnnnnc nncccnntnn 720
ctncccccntt acnnctacct cncentttccn tcnnaantcc ctccncacgc ncnncnnt 778

<210> 4965
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(827)
<223> n = A,T,C or G

<400> 4965
ttagntnaac cctttgaaac ccctttgaan tntttaaacc ctttcnaccg ctacttgntc 60
ttgatccnag nncncctcaa ttccgccttt gttccctctt tccatgccgt ttnttccngg 120
ggcccnggan aacactggtn atattaacag tctttctnag ggtaacttaa tgttttctta 180
atgaacanat gttccagcta ccaaattctt atcaanaaat cggcttcctt tntgaaaagt 240
actctcatag aagaaattta gcaatttctc gtgactgact caanctattt taagtatnca 300
naaaagattt tgatccccat tgagttaatg ctctgccttg aaaattantt ttctgatcct 360
tgntagtgat aacatttttt ttctactgaa ggtcagagga tnggaaacaa gtattcctct 420
nctggtatac atgtaatgta ttctgtaaaa aagtattcat atnggcaatt ttagttangc 480
ataatattgt ggttgtaatt tttnaaactt tagtggtttt gncctgatta aagccancgc 540
ttgatcaggg tatctcctaa agagggnnat tccaccttnn tattcctttc caatgaatta 600
tnacattcta aattttcatc tntggagaaa nnnacaacca agnangggga atnggaatta 660
aaattggggg tataaatcna nncntccatt gnttnaaatt ggntgccctt cncaccantt 720
gaagcccatt tttttatagc ctcagaaagg agggaaataa atgccnccca ccttttttntt 780
cctggtagac ttngaaaaat tnaccnttta agttangaac aaagtct 827

<210> 4966
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 4966
tttgaaccct ttnacanctt ttgattttta ancctttnca cngcncnngn gcngganenn 60
ccccnngaat tcggcacgag ggtgtgcggc tgtaatttta gctattcggg aggctgaggc 120
aggagaatca cttgaaccca ggagacgaac gttgcagtga cccgagatcg taccactgca 180
ctccatcctg agtgacagag cgaaactcca tcttgggggа ggaaaaaaaa gaaagtaata 240
gggangnaaa tcagaanttg tgtgggantc cccctatntc tggctcttgn tannatactn 300
nacctgtcag gcnatnctga gagcgaangc tnctgcntag ggctagtttc cattcagant 360
ggtttttgat aggcatgaac tagtctaact caaagcatac ttctgtgtaa gctagcatag 420
ctcctntact tggcttcata ncnttggaca ttaatcgaga aaagtgaaaa aggagggttt 480
ggncctgcct tgaatagcat ttgattntta atcctacatt ntatcagagc cccagcnttt 540
naaatgttta atagccntat gtgctgtttt gccacgctta cnaagttngt acttctgtga 600
atgaaaaagt gtgactggac tnacataaac tggnattgac tnncagtcat cagtntattt 660
ccatnttcaa ggnaaaaccc aangactggg ttntcctctn ttttcttttg aanatganng 720
cnnctaaaaa tcaantaatt ggggctgggg tgtggaagcc caccttgtga aantcttatg 780
ctttn 785

<210> 4967
<211> 975
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(975)
<223> n = A,T,C or G

<400> 4967
annnnannen antnnntnnn atntnannnc nncntaantn ntnnnatcnn nanncnnana 60
anatntnnac tnnaaanaat tnctaatgat taangggggg tctaatgctt ggaaactccc 120
ncgantaana ggttngtcgg cngctctggc tgcccggcgg ttnagcagca tggnctctnc 180
aggggcacag tanngcgcct cccganttac cggagcgnaa ctgccaggta ccgcnaagtc 240
nnctctggna tcagcgctac caaggcgcag ncgantctgc caagctacct taggancggg 300
gactnatcct acttccgtgc cctactagag ccggagntnc ngnccgagga ccgnatcntt 360
gtnctangnt gcnngaacan ngcnctgatc tactaatctg ttccntanga cgctnccnta 420
atgnnaccag tgcngactac tcatcnatac nnggnagctt gatangcnng ctnacnatgc 480
ccatgtgccc nnatcctcnc tnngaaaacn nngaatgtgc gcgaangctg ngacntttcn 540
ccaaagcttt gtttttgaan tnggttnntc gaaaaaannng ncncnacttg ggaatncccc 600
tnaattngca tgggggggaaa ctaaagnttc cccttggnaa ccccatnnta nccctttnta 660
aaaagggtat ttaaccccaa ctttgggggc aaccccaaaa ntnttttgta aacntntaat 720
nttcggaagc ccctgggaan nantttgngn aancctntag nnaaggggcc cnggnanttc 780
ttnttcnttn naacangaan nttttttann gccnngaccn ncctcgannn ttttaaaggg 840
gcccnanaan ccnttnttgg cccnaaaacc cttttagngg ttnaggancc ttgaggaatg 900
ccccccttt ggnaatgngg atttccactt nccnatgngt aacccnanca naaaanggng 960
gaaaagctaa aancc 975

<210> 4968
<211> 1150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1150)
<223> n = A,T,C or G

<400> 4968
gncacgntnt tactccttgg gnaatnagtt ngnttnangc cctttctcta aanagaaatg 60
ngngntggcg aanttcggca cgagtnngaa gcatncacat atccttagaa tagtntnact 120
tnggctatna acccctngcc ggctgnggct ccccantgtn gtnantctgn natgtgctat 180
acccaaccta gagcangggc gccatgcctg gctaatnann ngtnattact tttntcanca 240
gatggggtct tcactntgnt gnccangctt gngtctagaa ctcctgggct ncaanttgat 300
actcctgcct gagcctccca aagtgcntgg gattatagac atgagcaaat tgtacttggg 360
ctcaaatttc ttgnttnaaa ttgggctttt ttgtcagaag naatgngcnc nccttttgaat 420
tatnattttg atcttgttct cattgtatta cttngnaccc ctattcnnac natangantt 480
tctatnttta ttcaatgaaa gcngccctgg ggaatttatt tgnaccttng tanccacntn 540
cngnggcctn tgnggnnntc taaatatcnn tngtccgctc tacntnnaat ntcggggggc 600
nccttatact cnggtncacn nnatngnaaa aatnggttgt cctntaactt tcttnncaaa 660
atntgcggca gatnntnntt gnggnntant ttnnanagcn ctnttngtna nntnncnttt 720
tggngncaan tttatncact ntgngaaana nccccтcntt atcnntataa ccaatttcgg 780
naanatnngt canatattnt acattatcct ctaattnntn ccccaatang ntnanttact 840
ctncaaatnn nnctantatt cgngnntcta tncnanaatt ntctananan ttctntncca 900
ntttctgnga ntntttctgn aannnttcat ncgtgcggan tannctatgn ggacntaaat 960

ntttntancc cccgganntt nttncntaaa aaangataan gnctttttcc acanactcca 1020
acaaantcct ngtggannac ttaaantnnn tcatcnccct cnggnaacat gtctnctntc 1080
ttnanagtac ncatnttgga tcnatntana aaggnaaatn ntgatnnggn gctctntcta 1140
cttatcancc 1150

<210> 4969
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4969
gnntttctaa ngcnngctnt cttctgcngc tccnncnatc cgtgnntaca cancacgncg 60
angnntntct gactnttnnn ctatgtaata ngcaggngta gttgnntntn tgctgccatg 120
natgnatnna catnncatgt gcagtgtctn acgtaatacn ctccnatnaa nctngttgnn 180
cntactnntc nncaacntgg atatgncant ttgnncagna cnantgntgc anattggaan 240
atgatggcct nactcttacn atgtgattgc ctatatgncc tctnnacctt gaatacntnt 300
gntatncnan ncanagtnct aaaggatgnc natnatagca gcnctctttn naaataagga 360
aacntccttg aataatgtaa aagcctcata tacaataatg aataataaag aataatgtga 420
aggcttcatt caaggttgnn gtttgccaga tcattgcaac aaaatgacag agcanccaac 480
gtatttanga tagtggccaa agtattgtaa tgatggctta tggagtgtca gctggataaa 540
gagtgaaaat gactaaaaac taatggattg ttcagtcgaa tagcanatgg tcaatggtca 600
tggccagtat aatagggggа cccaaatana aattggaaga cccagtcana agtggggant 660
tgatcaattc canccaaaag tgggaatggg caggggaatc ggtaggcccc anggttccaa 720
aaatgttacc agnggncaat tttgttggcc ccatggtggg gaatccaang gc 772

<210> 4970
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 4970
ttcnaatagc tnggctcttg ttctttttgc aggatccctc gattcgaatt cggcacgaga 60
gtggctggat aaaaggatgt gtgggaaaga actgagttga aattaggagt tagaatttta 120
ttctttggta ctaaggaatc attgaagatt ttaaaattag ggctgacata atcagatttg 180
agtttgggaa cctatagttt gggactggag gaagacaggt gccagacacc agttaaaaag 240
ctgttatttt ctaagcagta gacaaaggtt tacactgaca atagctgtgg agatagagaa 300
aagctgcgag atttcagagt tttccaaggt gtaaacaact aaattttgtg atcaaaatga 360
taagggccat ctaataagct ggggaatgtg ggatctgtct tggttgagtt ggtggattaa 420
ctgagattaa cagagctgga ggaaatgtaa aaagaaaggc aggattgttc attttgtctt 480
ttgtttgttt tggggaacag ggtcaaaatt ttcattctgc ataaggtagg tttagtcttt 540
ttcaaaacat tctagtaggc aagtctgtag ctgaatcttg gaagaaaggc aaccatagta 600
atatttttga gttcctactg tttatttttt caataaaaac tcaggttctc aggttagcag 660
atcatggtct taggaaggta gctgtagaac ccaaaatata aattcctaan 710

<210> 4971
<211> 710

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 4971
ttcnaatagc tnggctcttg ttctttttgc aggatccctc gattcgaatt cggcacgaga 60
gtggctggat aaaaggatgt gtgggaaaga actgagttga aattaggagt tagaatttta 120
ttctttggta ctaaggaatc attgaagatt ttaaaattag ggctgacata atcagatttg 180
agtttgggaa cctatagttt gggactggag gaagacaggt gccagacacc agttaaaaag 240
ctgttatttt ctaagcagta gacaaaggtt tacactgaca atagctgtgg agatagagaa 300
aagctgcgag atttcagagt tttccaaggt gtaaacaact aaattttgtg atcaaaatga 360
taagggccat ctaataagct ggggaatgtg ggatctgtct tggttgagtt ggtggattaa 420
ctgagattaa cagagctgga ggaaatgtaa aaagaaaggc aggattgttc attttgtctt 480
ttgtttgttt tggggaacag ggtcaaaatt ttcattctgc ataaggtagg tttagtcttt 540
ttcaaaacat tctagtaggc aagtctgtag ctgaatcttg gaagaaaggc aaccatagta 600
atatttttga gttcctactg tttatttttt caataaaaac tcaggttctc aggttagcag 660
atcatggtct taggaaggta gctgtagaac ccaaaatata aattcctaan 710

<210> 4972
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 4972
ttcnaatagc tnggctcttg ttctttttgc aggatccctc gattcgaatt cggcacgaga 60
gtggctggat aaaaggatgt gtgggaaaga actgagttga aattaggagt tagaatttta 120
ttctttggta ctaaggaatc attgaagatt ttaaaattag ggctgacata atcagatttg 180
agtttgggaa cctatagttt gggactggag gaagacaggt gccagacacc agttaaaaag 240
ctgttatttt ctaagcagta gacaaaggtt tacactgaca atagctgtgg agatagagaa 300
aagctgcgag atttcagagt tttccaaggt gtaaacaact aaattttgtg atcaaaatga 360
taagggccat ctaataagct ggggaatgtg ggatctgtct tggttgagtt ggtggattaa 420
ctgagattaa cagagctgga ggaaatgtaa aaagaaaggc aggattgttc attttgtctt 480
ttgtttgttt tggggaacag ggtcaaaatt ttcattctgc ataaggtagg tttagtcttt 540
ttcaaaacat tctagtaggc aagtctgtag ctgaatcttg gaagaaaggc aaccatagta 600
atatttttga gttcctactg tttatttttt caataaaaac tcaggttctc aggttagcag 660
atcatggtct taggaaggta gctgtagaac ccaaaatata aattcctaan 710

<210> 4973
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4973
tcttttcnaa tcnnntggcn cttgttcttt ntgcaggatc cctcgattcg aattcggcac 60
gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag gagttagaat 120
tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga cataatcaga 180
tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga caccagttaa 240
aaagctgtta ttttctaagc agtagacaaa ggtttacact gacaatagct gtggagatag 300
agaaaagctg cnagatttca gagttttcca angtgtaaac aactaaattt tgtgatccaa 360
atgataaggg ccatctaata ngctggggaa tgtgggatct gncntggctg anntgntgga 420
ttaactgaga ttaacanagc tggangaaat gtaaaaagaa aggcacgatt gntcatttng 480
tcttttgttt gttctgngga accagggtcn aaatttccat tctgcatnan gtncgntnag 540
tccntttcaa aacattctta cttangcaag tcctgtcnct gaatcttnga aagaaaggca 600
ccntnnctaa tatttttgag ttcctactg nttaatcttc cccaattaaa acctcacgtt 660
ctcnaggttn cccacaacat ggcccttacg gaangctngc ttgtcncaac ccaaaactct 720
cacattncct taaacntttt nccccatttg gggcn 755

<210> 4974
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4974
tcttttcnaa tcnnntggcn cttgttcttt ntgcaggatc cctcgattcg aattcggcac 60
gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag gagttagaat 120
tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga cataatcaga 180
tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga caccagttaa 240
aaagctgtta ttttctaagc agtagacaaa ggtttacact gacaatagct gtggagatag 300
agaaaagctg cnagatttca gagttttcca angtgtaaac aactaaattt tgtgatccaa 360
atgataaggg ccatctaata ngctggggaa tgtgggatct gncntggctg anntgntgga 420
ttaactgaga ttaacanagc tggangaaat gtaaaaagaa aggcacgatt gntcatttng 480
tcttttgttt gttctgngga accagggtcn aaatttccat tctgcatnan gtncgntnag 540
tccntttcaa aacattctta cttangcaag tcctgtcnct gaatcttnga aagaaaggca 600
ccntnnctaa tatttttgag ttcctactg nttaatcttc cccaattaaa acctcacgtt 660
ctcnaggttn cccacaacat ggcccttacg gaangctngc ttgtcncaac ccaaaactct 720
cacattncct taaacntttt nccccatttg gggcn 755

<210> 4975
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 4975
tcttttcnaa tcnnntggcn cttgttcttt ntgcaggatc cctcgattcg aattcggcac 60
gagagtggct ggataaaagg atgtgtggga aagaactgag ttgaaattag gagttagaat 120
tttattcttt ggtactaagg aatcattgaa gattttaaaa ttagggctga cataatcaga 180
tttgagtttg ggaacctata gtttgggact ggaggaagac aggtgccaga caccagttaa 240
aaagctgtta ttttctaagc agtagacaaa ggtttacact gacaatagct gtggagatag 300

agaaaagctg cnagatttca gagttttcca angtgtaaac aactaaattt tgtgatccaa 360
atgataaggg ccatctaata ngctggggaa tgtgggatct gncntggctg anntgntgga 420
ttaactgaga ttaacanagc tggangaaat gtaaaaagaa aggcacgatt gntcatttng 480
tcttttgttt gttctgngga accagggtcn aaatttccat tctgcatnan gtncgntnag 540
tccntttcaa aacattctta cttangcaag tcctgtcnct gaatcttnga aagaaaggca 600
ccntnnctaa tatttttgag ttcccctactg nttaatcttc cccaattaaa acctcacgtt 660
ctcnaggttn cccacaacat ggcccttacg gaangctngc ttgtcncaac ccaaaactct 720
cacattncct taaacntttt nccccatttg gggcn 755

<210> 4976
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4976
cntttctttt tnnaaccntt tgcctactcg ctcnttttgc aggntcccat cgattcgctg 60
gttttgattg gtcagattct tttttcacta gcggcggttt ttcttttatg tcttgttata 120
aagaagtatc tcattggacc ctattatcgg aagctgcaca tggaaagcaa ggggaacaaa 180
gaaatcctga tcttgggaat atctgccttt atcttcttaa tgttaacggt cacngagctg 240
ctggacgtct ccatggagct gggctgtttc ctggctggag cgctcgtctc ctctcagggc 300
cccgtggtca ccgaggagat cgccacctcc atcgaaccca tccgcgactt cctggccatc 360
gttttcttcg cctccatagt ttctctggcg gcgctggtcc tgtctctcat tctgccgagg 420
agcagccngt acatnaagtg gatcgtctct gcngggcttg cccaggtcan cgagttttcc 480
tttgtcctgn ggagccnggc gcgaagagcn ggcntcatcc tctcnggagg tgtaccctnc 540
nttatacttg antgtgacca cgctnancct cttgctcgcc ccngtgctgt nnaaaagctn 600
cnaatcccga agtgtgtgcc cngacccgaa gaanccngtc cancctttga tggcttcnna 660
gatgattgga cccntggaaa ngggaacctc ttcnnggnga actnaancgc nttaaaatng 720
ccananaanc ngctnccttt ctcggnaacc nncncccccnc n 761

<210> 4977
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4977
cntttctttt tnnaaccntt tgcctactcg ctcnttttgc aggntcccat cgattcgctg 60
gttttgattg gtcagattct tttttcacta gcggcggttt ttcttttatg tcttgttata 120
aagaagtatc tcattggacc ctattatcgg aagctgcaca tggaaagcaa ggggaacaaa 180
gaaatcctga tcttgggaat atctgccttt atcttcttaa tgttaacggt cacngagctg 240
ctggacgtct ccatggagct gggctgtttc ctggctggag cgctcgtctc ctctcagggc 300
cccgtggtca ccgaggagat cgccacctcc atcgaaccca tccgcgactt cctggccatc 360
gttttcttcg cctccatagt ttctctggcg gcgctggtcc tgtctctcat tctgccgagg 420
agcagccngt acatnaagtg gatcgtctct gcngggcttg cccaggtcan cgagttttcc 480
tttgtcctgn ggagccnggc gcgaagagcn ggcntcatcc tctcnggagg tgtaccctnc 540
nttatacttg antgtgacca cgctnancct cttgctcgcc ccngtgctgt nnaaaagctn 600
cnaatcccga agtgtgtgcc cngacccgaa gaanccngtc cancctttga tggcttcnna 660

gatgattgga cccntggaaa ngggaacctc ttcnnggnga actnaancgc nttaaaatng 720
ccananaanc ngctnccttt ctcggnaacc nncncccenc n 761

<210> 4978
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 4978
cntttctttt tnnaaccntt tgcctactcg ctcnttttgc aggntcccat cgattcgctg 60
gttttgattg gtcagattct tttttcacta gcggcggttt ttcttttatg tcttgttata 120
aagaagtatc tcattggacc ctattatcgg aagctgcaca tggaaagcaa ggggaacaaa 180
gaaatcctga tcttgggaat atctgccttt atcttcttaa tgttaacggt cacngagctg 240
ctggacgtct ccatggagct gggctgtttc ctggctggag cgctcgtctc ctctcagggc 300
cccgtggtca ccgaggagat cgccacctcc atcgaaccca tccgcgactt cctggccatc 360
gttttcttcg cctccatagt ttctctggcg gcgctggtcc tgtctctcat tctgccgagg 420
agcagccngt acatnaagtg gatcgtctct gcngggcttg cccaggtcan cgagttttcc 480
tttgtcctgn ggagccnggc gcgaagagcn ggcntcatcc tctcnggagg tgtaccctnc 540
nttatacttg antgtgacca cgctnancct cttgctcgcc ccngtgctgt nnaaaagctn 600
cnaatcccga agtgtgtgcc cngacccgaa gaanccngtc cancctttga tggcttcnna 660
gatgattgga cccntggaaa ngggaacctc ttcnnggnga actnaancgc nttaaaatng 720
ccananaanc ngctnccttt ctcggnaacc nncncccenc n 761

<210> 4979
<211> 850
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(850)
<223> n = A,T,C or G

<400> 4979
ntcnttttgt ttttcaancn attngcctac ttgttcnttt tgcaggatcc catcgattcg 60
ctggttttga ttggtcagat tctttttttca ctagcggcgg tttttctttt atgtcttgtt 120
ataaagaagt atctcattgg accctattat cggaagctgc acatggaaag caaggggaac 180
aaagaaatcc tgatcttggg aatatctgcc tttatcttct taatgttaac ggtcacggag 240
ctgctggacg tctccatgga gctgggctgt ttcctggctg gagcgctcgt ctcctctcag 300
ggccccgtgg tcaccgagga gatcgccacc tccatcgaac ccatccgcga cttcctggcc 360
atcgttttct tcgcctccat agtttctcct ggcggcgctg gtcctgtctc tcattctgcc 420
gaggagcagc cagtacatca agnggatcgt ctctgccggg gcttgcccag gtcagcgagt 480
nttnccttg ccctggggag cccgggcgcc aantagcggg cgtcatctct cnggaaggtg 540
taccctccnt atacctgagn ngtgacccnc gcctnaagcc cttcttgcct cgcccccccg 600
tnccttcgn aanannncttn ncnatccncc aagggttgtn nttgcccccc aanaaccccg 660
gnancanaan ccgggtnccc aancccnttc ttnaannggc ctttcgggcn anattcnaan 720
tggggccccc ctcngnnaaa ngggnnaaan nccttcttnt nnggnggaaa tattgaaacc 780
nccttnaaaa natgggnccc nnccnacctc gctccctttt tntggggcaa aacctnnngc 840
cacccntncg 850

<210> 4980

<211> 1523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1523)
<223> n = A,T,C or G

<400> 4980
gggggggngn ngcgnngntn gggggggggg gttnttcnnn nnnnntggng acaccccttt 60
ttttnggggg ganaaaaacc cnnggngagg ngcgngnggg ggctngnggg gannnctggn 120
nngngnggggg ngggggggcn ggnntggagn ngngnggngn cncgngngng ggcgnngnnc 180
gnggnggggng gggngggggt nnttttttttt tngggnncng ngaggggggg ancnaggcgg 240
nnggggggggg ggggggggnt ggngttgcnn ggggnggagg ggggngggag gnngaagggg 300
aggnggcggg gannggcggg cagnggaggg gggncgnggg ngggtggcgn ggnggnggcg 360
ggngngnggn gccgnnttnn gggnngcgcg gcgnctnggg cgccggcggg gangngcgcg 420
gncgtgngag ggnagacggg agncgnggca nngagctgnn gtcnggngcn gggcgggggcg 480
nagngagnag gctcnatngg ggggnggcgg ggngtgnggn ggggncnncg aggngggggа 540
nnaggcgtng ggcnggntcg nnggngcggg ggcgancggg gagnntgngg ngggggccag 600
gngngggngg ggggncgggn ggggngnatc gcnnngcgnt gacggngtgn ncgggnccgg 660
cngggcgcgc gngancncgg gaggaacgnc gcangggggn cagtggtngn gngccgangt 720
cngtgtngng cgagnggngn gagagggagn gnngntgggt ggggncgagg ggatggccga 780
gngtcngnng gggggaggng gnggngnngn nngagggcgn tngnntggct nngggggccc 840
aggngcnggc nnngcgnggn aggggngnnn gggnaggcgg gcntgggntg gccaganagn 900
gnnctggggg ggntagagng cggngnnggg gnnnntgnng agacgggcng agcgggcggg 960
nggcgggcgn gngngngcgt gnnagagcgn gcgggngcgn gtgngnccng gcggncngnn 1020
gcagaggngg gacacagcnn cggagngngg tgnatgnnga gangagngng nnnngtggcg 1080
nacggttagc gggcngcgng gagagngagg tgncgntggg ggagcnntcg cgngctagag 1140
aggcngcggc gnngngatag gnggggnnga gcntgngnng ganncggatc tagggagcgc 1200
gagtgggngg nggtngacgn gagggggnng tgntnggaga gngggngagc cgngngcngn 1260
tgtagagagn cagnggcgtg ccgngtgggc anagggcgng tgcnncngta ganatggntg 1320
nngcnctgcg gcgngcgagg cnntaggnng ngtgnngngg gangagcgng tgtgggcgng 1380
cgcgnnggggg ggcggcngag tgacgntnng cgcgatngnn nggccnccgn ngcggncgca 1440
gangngangg gngnngcnnn cgcgnggaga nngnnaggna cagggcgagg gangcgangn 1500
gntgtgtgnn aggngcggnn ggt 1523

<210> 4981
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 4981
tnttctcnnc tgnaaccctt tttctaaagn ccctttgca ggatcccatc gattcgggag 60
aactgctcac tccttttccc tccccataca aactcaaagt cctttgggcc ccaattcaga 120
gttatgtttt ttttggcaca tactagaaag gcagtgcctc agcccttccc tgaatccatg 180
gaggtgttct gtttgggget ttttagactg ctgctgctca gctggttgct tgaactgaca 240
gtaggccagc ctgttctctg ccattcccta gtcatcctgt gcctcaccac agcttgctta 300
gagcaagcct tttctcagac cttaggcaca gcctctcctc tttacctgat caatgttaaa 360
tgtaagcacc cctgatccca ggacataagg aaagatgccc aattgtactt ttgttctata 420
gcctgtgaaa tggctagttg atcatttttc cacaaagaat taggtgttaa gagttttcct 480

tcaggcttta cttaggagaa tggactaagc tgaaggtgta cttcaccagc aagagtcaac 540
tctagaattc aggatgttcc ttctattggn ttcttagcca tctgtcagga aatgtaaact 600
ttggttttat tttttggctt atnccaaagg ggtaaanccn gaanatagaa aatggataat 660
tttctnattn aatagcngaa nccttttttca atctccaaat atataanggn gccncntctn 720
ttnaaaagct ctaagcctaa agtcaagagc taggant 757

<210> 4982
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 4982
gaggnnttga agccntttta tagatacagg ctacttgttc tttttgcagg atcccatcga 60
ttcgctctcc cgggcttaga aggcccggct actgacgcgc agtgccagac cttacccctc 120
acggncctta agtctcggtc gccctcgcct cgcagcctgc cacccgcgct cagctgcccg 180
cctcctcagc cagccatgct ggagcatctg agctcgctgc ccacgcagat ggattacaag 240
ggccagaagc tagctgaaca gatgtttcan ggaattattc ttttttctgc aatagttgga 300
tttatctacg ggtacgtggc tgaacagttc gggtggactg tctatatagt tatggccgga 360
tttgcttttt catgtttgct gacacttcct ccatggccca tctatcgccg gcatcctctc 420
aagtggttac ctgttcaaga atcaaagcac anacnacaag aaaccanggg aaagaaaaat 480
taagaggcat gctaaaaata attgaggttt tcatgattca gcacctgctt ttgnttctgt 540
gagatgagct aaatttgctt tcatacccca gataagagct taaaacccac ctaatgctct 600
tatggcacaa ctggggtata gaatttaagt tctctttata cttcaattct agcccaantt 660
gggttttgat taatataagt ngtttaaacc ttntcttnat aacttgctct gaaatgggga 720
acaaaant 728

<210> 4983
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 4983
ggnnnnnnnn acgctatgct ggctcttgtt ctttttgcag gatccctcga ttcgaattcg 60
gcacgagcta ggatgacatc tggtgtattg actgtggcca gtcttaaagc tagtttttgc 120
tatgtggaac atgctgctct aattcagatt taaagagttt cttcctgtta attcgaagct 180
cactgtgcct cttgtttccg agggaagaag gactgattaa gtcatctaaa tggatgcaat 240
actgaattac aggtcagaag atactgaaga ttactacaca ttactgggat gtgatgaact 300
atcttcggtt gaacaaatcc tggcagaatt taaagtcaga gctctggaat gtcacccaga 360
caagcatcct gaaaacccca aagctgtgga gacttttcag aaactgcaga aggcaaagga 420
gattctgacc aatgaagaga gtcgagcccg ctatgaccac tggcgaagga gccagatgtc 480
gatgccattc cagcagtggg aagctttgaa tgactcagtg aagacggtgg gtttctcgct 540
gggtgcgacg tgaatttgtg aagctcanga tgcccatgga ttagactcat gtagtagctt 600
aaagagtcat taggcgatag ganggagaaa ccaagaagtt agcagaatct ggatataatt 660
cantgtccgt aaatcccatg aagagaagct catcagaatt aaggcaatgg aatttgtgcc 720
caaaaaaaaa aaaaaaaaaa actcggn 747

<210> 4984
<211> 1195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1195)
<223> n = A,T,C or G

<400> 4984
gggnnnnnnnn nnnnannann nannnnngnn ngnnnnannn nnnnncnnnn anannancnn 60
nncnannnna ggnngaggag nangannnnn ancnntttna nccccccnttt ttnnctaaaa 120
aaagnaccct tggggttaaa ancncccent tgnnccccnn aacacgagaa aaaaggggag 180
cnggggggng gnnnnagnng nannnccnnn nnncnncnng nncacnaggn cnggagcnaa 240
gaagnnaacn ttttntanca ngnnaanccn atnncncnna nagcanccnc gggggggaaan 300
cnggaagacc ncncnnnggg nnnaannana nnancnanca nnngngagca aacanngana 360
nnnannnggc nnaagcnaac ncnnannnna nncccagnca cgnnncncnn gnncnnnann 420
nannaccnac ancncnnnng acnnaagaan nacgncaana aacgnannna cncnancnca 480
gnacnnagcn nnanaacacc canncanaac caaaaanann ncnatngcnn nnnngnnann 540
nccnnnncaa nnnnncnnnn nccgcnnnna nancnnncan ncagncacan ncgcacancn 600
ancnccanna gananngccc aancnnaann ncannaggnc annnacntna aggcanacan 660
acngnncagc acncnnanac gangccnnag nganccacac anncgnannn cnnnnnnnac 720
gnaaananca ngacgngcnn ncangcgnac anaaganana acnnacganc cnannnaaac 780
ancagcnanc annannannn anngcnnncn nnngannncn ngnncgacan acanananna 840
nngnnganCC cnnagacnan ngacnaaanc annacganga cangcgngca ncnactcaan 900
nannagnacn cccnanaacn acncnnaccn ncgcngacac naccaaanaa nnaacancac 960
nannaacnga naanacnacc nccgcnnngn ccganccnag cncncnncag ncnnaaccnn 1020
annaccannn ncannncncc cncgagccgn ccngacanac acncagaacc nnnnnacaac 1080
aanacncnca tcanannngn cnnccacnan ntncncacga cnancgcana cnncgacnna 1140
ncnnngnant nncagcgaca gcgnanacnc ntacnngnna acnncnnnnc gnccg 1195

<210> 4985
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 4985
gcaatgtgct ctngtctttt tgcaggatcc ctcgattcga attcggcacg aggccttttg 60
tggggtctca tacataactc agtttccaca aagctgtgcc ccagctcagc cctatggnta 120
gaagcatggt ctggggttcc tttgctgacc agggtgtgtg ctttgtccaa gttactgacc 180
ttcccaaacc tcatcaatgc acataaaaag agcacttgca aacaatgaat ctagacatgg 240
accttcacaa agaaataact caaaatggat cccaggccta aatgaaaaat gaaaaactat 300
aaaactccta gaagataaca taaaagaaga tctagatgac ctagggtttg gcaatgactt 360
tttagatcca gcaccaaagg caggatccag gaaagaaata attgataagc tggacttcat 420
taaaacgaaa acttctgctc tgtgaaagat gctgccaaaa aatgaaaaga caagccacag 480
actgggagaa aatatttttg atggaaatat ctgagaagag aggcttgtta tccaaaatat 540
acaaagaatt tctaaaactc aataatttga aaataaacaa cccaatttaa aaagtgggcc 600
aaagatctta aatgacgcct taccaaagga agatcccngg atggcaaaat aagcntatga 660
aaagatgctt ccnggctggg cacngtggct nacgcccgta atnccancct ttnggatgcc 720
aaggcaggca gatcn 735

<210> 4986
<211> 1497
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1497)
<223> n = A,T,C or G

<400> 4986
cnttcnnntt cntgaacctt tttttccnat tccccnntna tctcncgtaa tncccnncan 60
ganttncnnc ngcatcccna cttantntcn tntgngngcn cagaagntnc gngacnnttt 120
tttngccccc canactgcgn gtttntanna ngnnancgcc nngtcngtnn tnncnttgnc 180
nnnnnatatc cannectnnc tnnntncect ancgcacant ntcncaatan tnnaacgnnc 240
nantnaccct nccnatccac ntcanagtaa aatnctnnca attncancat tagtgnnttc 300
nannacctnn ccgtnnatat ctgnnntcca tccacaaagn ccaatcnnng natcncnntn 360
tnantatncn ntagagnncn ccnnntccca tctatcgnct nnnnnatnct nggaccnnnn 420
tcccatncca nnnngtnann cngantnntg tgncacnnnt gngnncngca tctcaancat 480
catctcgtct cttgacgatn tncttantcg gcgcattagg ntcnatcgnn tantnngntc 540
ancacctant ntaatctcan tntnatcann tctacctatn tcatatcngc canacagtct 600
cnctctaaat ncnncgcann gcncatntat caantcanna nactcntata nctcacatnt 660
ctcnngngnc atntactctc cnagctctgt catttttntc atctntctct ctgatacagc 720
cacntnggaa aactagcnnc tcactcacna tagccnnatc tatacgctcn ctntcnncag 780
ngactcgata natgcgtgcg tgntcnntct atagcnncnn nctcattngc atnananatc 840
tcnntcgcgc nactgttgtc ntcatcttgn nncantacan tgagaagtnt tatatatagc 900
nacnananat atagactcat ctcactacnn angacgcgan gctanactnt acttatanac 960
ctcacnattn gncactntac ttatactntc ncntntntga nacggctnca gtatatcgcn 1020
gggntctcac ttactntnng cncntncact ntcctnngng cnnnnaacag tatntacact 1080
ctatnaatcn canacgncna ctgctccatt ctgnnccaan ntctcntctc gcancnnnnt 1140
nnnnntcgna tnngcncgat cattgncnnn natngngtcn ctctncanna ctnctctctn 1200
gncngccanc cacnnngnag cntctcnnct atnncgatcn tnngncactn antaaacctc 1260
atcacatcnt cntctctccn cncntnnnan atctaccctn ntnttnaatg cntnatgtna 1320
ctccacgant atntcncact ttatcnntnt ccnctntatc gnnnctctnt tancagtctc 1380
nacttattng ctctnnngnc cnacnnttna gcctcnccgn ttnatactcc ntcncnatgt 1440
ccgntccncg nagcnncata ngngnntnnn ntatcntata cgntncanan tcgacnt 1497

<210> 4987
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

<400> 4987
tttctaaatg gcttggntct ngttctttct ncangatccc atgcgattcg aattcggcac 60
gagcccagag aagagctttt cagagaaagg tacagacaag aagctagaaa gagtggaagg 120
agcagcagtc ttgcaaggaa gcagggcaga gacacagccc atggcccctc actgccctgc 180
tggaagggct gatggagctc cccgcacatg gttcctgcct gggtgacaga ggctcctgtg 240
gccactttag aagtgcggtt tactcctcat gccgagatgg accttgggca gctcagttca 300
caagatgttg gtcaggcgtc atttaaatat tttcagtcag cagaggaagc aaagcgtgcc 360
attgaggctt gtgctgtcag cggatcctcg gtctgtgtac cgccggaagc tttgccagga 420
ccgccttttc tactttactg tagacatagc gcatgtcact tgctggtttg gtgatggctt 480

tgcagaggtg ctgaggatca agccggcttc tgagcctgtt catatgactg gccctgtggg 540
gtccttggtg tctctggggt cttaaggagc ctcctcatgt ctttaangta gcatcattga 600
tctttggatg tggcttttgg attttctgaa caagctaatg ttgtgtcaaa gaaccaccac 660
tttgtgatct catnggcttt gattgatttg ggcttgttca aaatggttat ttgaaaaaac 720
gtntacnttt aataaaactt ancaaagaga ttntaaaatc ccganaaaa 769

<210> 4988
<211> 795
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(795)
<223> n = A,T,C or G

<400> 4988
ttgtacntct ttttnnaaac ccntngctac ttgttctctt tgcanggatc cctcgattcg 60
ggaatctcct agaaagttgt gattttcgag ccatatcctt ctgtggtaga tcctaatgat 120
cctcagatgt tggccttcaa ccccaggaaa aagaactatg atcgagtaat gaaagcactg 180
gatagcataa cttctatcag agaaatgaca caagcaccat atctggaaat caagaagcaa 240
atggataaac aggacccccc tgctcatccc ttactgcaat gggttatatc aagtaataga 300
tcacatattg tgaaactgcc agttaacagg caattgaagt ttatgcatac tccacatcag 360
ttccttcttc tcagcagtcc accagccaaa gaatccaatt ttagagctgc taaaaaactc 420
tttggaagca cctttgcatt tcatggctca cacattgaaa actggcactc ctcctganga 480
atggtctggt ngttgcttct aatacacgat tgcagctnca tggngcaatg tatggaagtg 540
gaatctatct tagtccaatg tcaagcntat cattttgntt actcagggat gaaccangaa 600
acagaaaggt ntcagcccag gacgagccac cttcaagcng ttaanaagcc agcaattaca 660
ttcacagtcn ccaggaaana aaaggncagn cctatccccc ctttncctgg caaaaggccc 720
gtnaacctta aanaaactgc ctttagccct ttatnntgga aagtggattc ncncttnatt 780
cttggacccc tgncn 795

<210> 4989
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(737)
<223> n = A,T,C or G

<400> 4989
ggaatngctt ncnnnngctc ttgtgcnnga tcccntatnn nnngcgccac cgtgcctggc 60
tggacatgtc aatttgaagt gaatggttaa ncatccagct agctgaaagc atggcagacc 120
ctancagaaa agctncagtg tgtttntgca gctatnaagn gaatggnttc ctggggaaaa 180
ttgtgacttt gnntaactgt tgttgaaacc agaataaatt atatttcact tgcatatgca 240
taaattatta aaattttcag aagtcagtga tacagaagta ctatnttgca atgtnaatct 300
gcttgagtct ttggagaaag tggtttcatt gtangtacat agngcactgn taatatttta 360
aacaagtnnt tnactcttcc atntaaggga tagcatntcc ttgtataaaa tgactggatg 420
tgtataaagg aattatgttg tcatgtgcct ttaaccagct ntantcatta ctataatctg 480
atatttatga tanttcnggn nngtgacagg accatatgaa aatntcttat gtcancncat 540
cactttagat tntatnatta tgnacattac tggggtntta nccttttgcta atgtgaagcn 600
ttcttcccta ntaagtctac attaccttnt gctcatttan atcatatatc acnataactt 660
tataantnat ctnanaccnn gcccttgcct nttanacttt cnnncgcnca ttaccgtaga 720
tccngacatg ataagaa 737

<210> 4990
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 4990
tttcntaant gnntnggtnc tcgttctttc tncannangc ncntgcgntn cgaattcggc 60
acgagcccag ccctagatac tggcactact gaggaggatc gtttaaaaat tgatgtaatt 120
gactggttgg tatttgaccc acgcagaggg canaagcact gaaacaaggc aatgcaatta 180
tgagaaaatt cttggcatca aaaaagcacg aagctgcaaa agaagtattt gtgaaaattc 240
ctcaggattc tatagcagaa atctataatc agtgcgagga acaaggaatg gaaagtccac 300
ttcctgctga agatgataat gctatccgag aacatttgtg catcagagct tatttggaag 360
cccatgaaac ctttaatgag tggtttaagc atatgaattc agttccacaa aaacctgctt 420
tgatacctca accaactttt actgagaaag tggctcatga acacaaagaa aagaaatatg 480
aaatggattt tggtatttgg aaagggcatt tggatgccct aactgctgat gtgaaggaga 540
aaatgtataa cgtcttgttg tttgttgatg ganggtggat ggtggatgtt agagaggatg 600
ccaaagaang accattgaaa agaacacatc aaatggtctt acctgagaaa gctttgtctg 660
cccatggtnn gttttctggt tcataccnat attgccaant actggtcaat ttcaggaatg 720
cctacagtta ccantatggn atcctntnag cgccacanac tggacctggt nt 772

<210> 4991
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

<400> 4991
tctatccctt nctcaatccn ttatccngnt ctttgcagga cccatcgatt cgaattcggc 60
acgagaaagc annaaaaaag gaanncacan gnttttntnc ccaaagttgt tttctagatn 120
tgtggctnta anaaaaacaa aacacaacaa acacattgtt tttctcagaa ccaggattct 180
ctgagaggtc agagcatctc gctgttnatt tgntgttgtt ttaaaatatt atgatttggc 240
tacagaccag gcagggaaag agacccggta attggagggt gagcctcggn ggggggcang 300
acgccccggt ttcggcacag cccggtcact cacggcctcg ctctcgcctt accccggctc 360
ctgggctttg atggtctggt gccagtgcct gtgcccactc tgtgcctgct gggangangc 420
ccaagctctc tggtggccgn ccctgtgcac ctggccaggg gaaagccccg nggtctgggg 480
cctcctccna ctgcgcncac tttgcaanaa taaactctcn cctggggttt nnctatcttt 540
ggnnctctna ccctggtnaa gaaacgccaa ngtggttccc naaacgnctn tncttgcaag 600
aacaaaagta ccccccttgcn acccttcctn atgggcntca acgaatntaa gggaagggnc 660
cccccaaggc ccccctttcct ggngttngnc cngntnaant nntttgggnc cngcntttcc 720
cnaaacntnt ttatnngngt nccaancccc ttaangccan ngttcccngn ggggaacaac 780
caannggccc ctcaagcccc aanngcccct ttncgggggg cccccent 828

<210> 4992
<211> 1499
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1499)
<223> n = A,T,C or G

<400> 4992
cancncanca ccanacacac antcncnctt tttcactttt tttttcccca anaaaccgan 60
cncgtttccc ccacngtctc aacccnctac acncngcgcn anncgcnaca cacccccgnc 120
aancanccnn nctntcnaca cncncaacta cactncatac actcnctacn ctacncacnc 180
acatacaaca acaccacaca tccncntaac acacanacac caccaccaaa tcnnancccn 240
ccnannnnca acannnccat ncanacacnn acaccacacn ccancaccca cctctnncan 300
ccacacccct atctccncna cacnaccaca ccaccccgca aacnnncgcc ccantcncan 360
tnccncncac anacacacac acancctcac caccnacacc canacacanc ccccnacncn 420
caccacccac cnnnccnccc nnccncccaac actacaccaa cnccnnnatc aanccnacna 480
ccanccanac cnncaccncc cctcnacccc ncaccnnanc acctcacacc cccacccanc 540
nccacnaccc caanccaccc cccacannnc ttntnanana acanccaatn cccccacccc 600
ncancannca ccacnacacc ccccccccct aanccacncn cacccccacc ccncacccct 660
annenacnnc cncccc acna acaaccncac cnacaccnca ccntcccccc catctcntna 720
cnccccccgcc tcacccnaac ccacatctnc tcccacanct ccaacacncc ncnanacacn 780
nncacacnca caacaccctc tctcncacnc tacantcann cacatacaca nncatcantc 840
nctnntncnc ccaactncnc actaacctng canccnacnc tcncnctcct caccantcgc 900
acncccacac ccctacccat actcncntcc nntntacacc atnancacac cacacnntnc 960
accacnnccn acnncancen cnntacancn cncancacca cacctnacgc acaccctnat 1020
ccacancacg accacacncc cctnccacaa accacangac cnnccccctac acatntacca 1080
cgncctaaca ccaacnnact ctctaccacg acaatcncct ctcaaaacac nnnatctnta 1140
tancanccca ncacgtcaca cncnctnnaa caaccncaca tccagtcaac atnaaccaca 1200
catncccanc antncatctc acccnntacn actcactcca ctacnccncc tctccnacca 1260
cnccncctcc ctatncaaca ctcancntcn aacactnctc ncccncntcc cnccccacca 1320
cncntccngc atcnncaaca cccacctaca ccancacnnc accncccccc ccnacccaca 1380
catcccccan taccatcaac aaacacataa gcatnccact cccaccanac cacccnatat 1440
actntacncc tctccccaca cncncccccn naccatctca ccccccctcnc cnccncncn 1499

<210> 4993
<211> 1576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1576)
<223> n = A,T,C or G

<400> 4993
gncctccctc ntcttncntt tttgtttttn gtttttccna atcncctttt tcngccacat 60
ttnttgnncn nggnatcccc atncgnnttt cggaatttcg ngccaccgta gtagtanggg 120
tnggggngtn ctgggcccan catnanggta ntcctcntnn tcgngntttc ttgnnctcta 180
nagggngtgt acnnncactn gtctnatggg ccntacgcaa ttctaatcng ttcacnatgt 240
cancancatc atgcnacnct nnnntacttc tgcnaaccta cctctnccnn ttcncaangc 300
cactggacnc tcantcacct nctnnacnac anngntttcc cancncgncc ttcttcattn 360
nnctccatnn cactttnncn cncnctcaca ntcntcccat cnttntccca nccactcnnc 420
cacancctnc ntctaantct tnatcanatn tcactctcat tcatnnttca cccnactgtn 480
nancantccc gnctctacat gtcntanccg atnntcntnc tncaactcat ncannncctt 540
ngcgccttat caaatactcn tacnnactnt taccctactn ntnctntcan cntctactnt 600
ccctctcctc cttctatctc accatacacc tctatcngan cntnncatcn ctatcnncta 660
tccanacnnc tgtnactcgc tntcactctc ntntnttctc tcgcactaac atanntcaat 720
cccanctctc ntacctgtca ntccncagct ctgatctctc ncgtanaact cctactctac 780

tacactntct acnctntctn tacgacacac gncagctcac tctccactac tnctncctnc 840
acncctctcc gagncntnct ctccnnntcn actactatct nnaacgtcgc ttactnacnn 900
tcnctccana ttnagttctc canctgtann catctcgctt tnacactcan cnnnccctna 960
ctcgnactct canactctct cngcnctatc tcacacaatt ccgtnnctcn ancanacacn 1020
acnatacgtn gcttcatncn cntcaagtan attncancat natcnctatn tcttctatan 1080
ctattnngan ncatacnctc atcggcanct cacactctat nanctcnnta cacacccagn 1140
gtcatacntc ttctgcnagt ntcnnncntc gacgcannnc catctcanca ctcananttc 1200
tcacngnacg tacacnccna tctctcnnng ccnccanntg actcatnacc tatctntcna 1260
nctctncgnt ctcnnctccn tctctatcct ctctacnctc tntctcttac gctccncnnn 1320
tcatctaact cntacnntca cnnctctaca tcttcntcat ctcntcntct atanttctta 1380
tcgntnnnta ctncnaccag cntctgctat ccttgcttgn actccncnnc atcgaccncn 1440
ctctcatngn tccacatcnt cntctntnta ctcgtcatca ctctccnacn ccnatatatc 1500
tnttatcctn anancncnnc accgcagngc accactcann tcnnatncnt ntannacnnt 1560
cccacntctg accnct 1576

<210> 4994
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 4994
gnntnnnnnt ttnncctana cngaatggtt gggttaacgc cctttcnnna ngnagnccng 60
cgntncgaat tcggcacgag gccaaatgcc ggaattcaaa acctggcttt taaaaagaat 120
gnttttgaac aaggcgaatt atatttgaga gaaaagtttg aaaattcaat tgaatcccta 180
agattattta aaaatgatcc tttgttcttc aaacctggta gtcagttttt gtattcaact 240
tttggctata ccctactggc agccatagta gagagagctt caggatgtaa atatttggac 300
tatatgcaga aaatattcca tgacttggat atgctgacga ctgtgcagga agaaaacgag 360
ccagtgattt acaatagagc aagattttat gtttacaata aaaagaaacg tcttgtcaac 420
acaccttacg tggataactc ctataaatgg gctggtggtg gatttctgtc tacagtgggt 480
gaccttctga aatttgggaa tgtaatgctt tatggttacc aagttgggct gtttaagaac 540
tcaaatgaaa atcttttacc tggatacctc aaaccagaac aatggttatg atgtggaccc 600
cagtccctaa cacagagatg tcttgggata aagagggtaa atatgcaatg gcctggggtg 660
tttgtgggaa aaagaaccaa accgtatggg ttcgtgtaga aagcaaccgg cattatgcct 720
tcacatactg ggaagggcca ntgggtgcca gtagtgtccn gctnggccct tccttgaana 780
actggattcn aaagnt 796

<210> 4995
<211> 815
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

<400> 4995
tnnncntttc ctaatgcttt cctaantggc ntgggttctn gttctttctn caagtatccc 60
ntgcgntncg tataatctgg gggtacagag caaggaagaa gtactttgac tttgaggaga 120
ttctggcctt tgtcaaccac cactgggagc tcctgcagct tggcaagctc accagcaccc 180
cagtgacaga tcgaggacca catctcctca acgctctgaa cagttataaa agccggttcc 240

tctgcggcaa ggagatcaag aagaagaagt gcatcttccg cctgcgcatc cgcgtcccac 300
ccaacccgcc agggaagctg ctgcctgaca aaggactgct gccaaatgag aacagcgcct 360
cctctgagct gcgtaagaga ggaaagagca agcctggttt gttgcctcac gaattccagc 420
agcagaaaag gcgagtttat agaagaaaaa gatcaaagtt tttgctggaa gatgctattc 480
tccgagcttc gcaatgccgc taaggacnac aagaagaaga angacgctgg aaagtcggcc 540
aagaaagaca aaagacccag tgaacaaatc ccggggcaag gccaaaaaga agaagtggtc 600
caaaggcaaa gttcgggaca agctcaatac ttaatctttg tttgacaaag ctccctatga 660
taaactctgt aanggaagtt cccaactttt aaaccttata acccccanct tgtggncctc 720
ttgagaagac ttggaaagat tccnagggtt cccttgggcc aggggccagc ccctttaagg 780
agcttccttt aattaaagga ccttattcaa aaccg 815

<210> 4996
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

<400> 4996
tnnnncnttg acggatcttn gcagnactna acggcaantt ccctcttttt gcaggatccc 60
atcgattcga attcggcacg aggagtaagg gcaggggcct aanaaacagn ttttgttggg 120
tcttgaggca aaaaaagaag aaaatcttgc tgattggtat tctcaggtca tcacaaagtc 180
agaaatgatt gaataccatg acataagtgg ctgttatatt cttcgtccct gggcctatgc 240
catttgggaa gccatcaagg actttttga tgctgagatc aagaaacttg gtgttgaaaa 300
ctgctacttc cccatgtttg tgtctcaaag tgcattagag aaagagaaga ctcatgntgc 360
tgactttgcc ccanaggttg cttgggntac nagatctggc aaaaccgagc tggcanaacc 420
aattgccatt cgtcctacta gtgaaacagt aatgtatcct gcatatgcaa aatgggtaca 480
gtcacacaga gacctgccca tcaagctcaa ncagtggtgc aatgtggngc cgttgggaat 540
caagcatcct cagnctttcc tacgtactcg ggaatttctt tggcaggaag ggcacanngc 600
ttttgctacc atggaaaagc aacggaaaag gcttgcanat cttgacttaa atgctcagga 660
tatgaagaac tccggcaatn cngnngtnaa ggaagaagac ggaaangaaa aattcaggan 720
gagacttnca ctccatagaa gctttattct gcc 753

<210> 4997
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(711)
<223> n = A,T,C or G

<400> 4997
tggtttanat cnngctcttg ttctttttgc aggatccctc gnttcgaaaa attttatgga 60
cttctatgga tatttcttga tgcttagaga tttgtttttt taattgcaaa tgtgaattgt 120
ctatttacaa atgctattac atatggagcg ggcctgtggt gtatggcact attccttgga 180
ctaatggtac ccaggttcca ttctctgctc agctcggtgg ctctagacaa agcccctaaa 240
atgctgtctg cttcagtctc cttaatggtg aagtggaaat gaatacctac tgtcacttaa 300
ctcatggaga tgctggactg ataattagat catgtaagag cactttgagc tgtattgaaa 360
aatatgttgt ctcaaattaa gtagagtcta tggttttgta aatataaata tattgccaga 420
aaatacatca ctgggggagc aaaacatgta gaccaaatat aacagggatt agtaacatca 480
gtaaacatag ttgggaaaag atggcactaa agaaagccaa gaagaaagtg ttgctcttgt 540

aaaccaaann aaaaaaaaaa aaactcgagc ctctagacta tagtgagtcg tattacgtag 600
atccagacat gataagatnc attgatgagt ttggacaaac cacacctaga aatgcatgaa 660
aaaaaatgct ttattnggga aatttgggat gctatngctt tatttgnacc c 711

<210> 4998
<211> 786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(786)
<223> n = A,T,C or G

<400> 4998
ngntttannt attnncnttg cgctttgnga acttccngca nganttcgcg attcgctgaa 60
atgtcanaca cggccaccta ggcagcattt acaagcaaga nttttctgct nttttgatgt 120
atatcttaag cgcccccagt gaatgaacag catataactc cacataaaaa tcattaaatg 180
taattgactt ccagagcagg cagntctgtt gtatgcctct ggagaaggct ggctgaattg 240
gaattggnct gtaccttctg cctatcatgt acatgaggct tttgggcaaa gagaactttc 300
cacaaaataa gtccaaaaat tatagatcat cagacaacca ataacatatt gatgagatat 360
ctccaagatc tagaancgtc ctgggtgtca aggaagtcnt ttggggtttt tacaaatatt 420
gataatgcac tttctataaa atgcactttt tataaaaatg catgctcant tgagacaact 480
tgaaaaacac naagaaaagg cccgggccgt agtggctcac gcctggnatc ccagcantct 540
gggaggccna aacggggtgg atnaccgaag gtcangagaa ntgagaccat cctggcnaac 600
atggngaaaa cccccagact ctactnaaaa aatacataaa aattancang gtgtangntg 660
ncggggcgcc natnagnccc antctactna aggaggcctg aagcaggaag aatggggtgg 720
acccnnggaa nacngaacct tgcantnaac cggnnatccc gncactggna cctatagnct 780
gggngg 786

<210> 4999
<211> 1251
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1251)
<223> n = A,T,C or G

<400> 4999
acgagggggc tnccccttttt ttttngnaaa aaaaaacccc ccnttttttt ggggggggna 60
aagnttgggg gggctttttc cnaaaaancn cccnttttgg gcanaaaaaa nnnccennnc 120
nnacccnnna ccannnnnca nannnngggg gcncncncgn nncnacancn cggccacnan 180
cnnananancng gngtggntca cannannacg gnnggggggnt cnccanccac nnngggtnct 240
ctatcncggg gngcgggggg ccncnggggn nncgngnatc accntggggn ggncncncac 300
ccgggggggn ncnccnngcn gngccaccca taggggggnc anaatggnng ccccnnncgn 360
nncacancca aggnngcaca cntancccnn annacaccnc ccacacctnc tncnanaacc 420
nannnacana ncnncnnacc naacncnacc cancanccac ccccaccnnc ncncncaccc 480
acnacncaac ccctccancn accncccnan aacaaannnc ccccnacant cnnnccennc 540
nnnaacncnc nancccnnac aancccccatt nnaccnanac ncncannena ctaanacnct 600
nnccacnnna canaaactnt nnacncancc acncnacccc cccncaaccc caccccccaac 660
nanacncncc tcccccatac cacaacacnt nccanctnac ccctnaaacn anancaaaca 720
tanaaancca cnccaccnca acccaccaac acnnctaann ccaccaacan aaaccnccac 780
cacanacnac cncataccan cnnnacacna tcaccnnacn acaccanacc cntactncac 840
cnntcnatct cnnnncatnc nctancacna cacnnnaacc tcacacacnn catacccccan 900

cannacacan tctatacanc nnctcaacna cccncacatc ctattactnn acancacncc 960
natnctcnaa ncnncncaca anacncnacc aacacncaac catctcacat ctncacncna 1020
acnacancan tctcncccaa cacaaatcnn cnccnaacnc tccncanacn tacancatac 1080
acacnnacta caacgcncca ccccnctctc ncaacacnca cnntcatnna cncacntccn 1140
anacnctnnc acaactaaca tncccacnan acacacnana nacacaccca nnncaccann 1200
acaccnaacc ntcacaccac nactactnnc aanctnnncn cacatnncnc c 1251

<210> 5000
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

<400> 5000
gnttttccta ggnatnnctt tggcacttnc tctttttgca ggatcccatc gattcgaatt 60
cggcacgagt cgagtttttt ttttttttt ttcacttttt aatacacttc aatggttttt 120
aatatattca cagttgtaca actatcacta gacaaaatat ttttatctgt atgaagtgct 180
gtgtgtatca tggggccaag tcaggggaag acaggagttt accaggggaa gaaatgcatt 240
ccagggaaag agaacaaatg tgcaaaaaga cggaattctg aaatgaccta gcatttgcat 300
aatatgaaac tgcaggggga ggtaggctag agtttatagt gaggaaacaa ttgggctagt 360
ttacaaatga ggaatctgaa gctcaaatag atgaagtaac tggcataagg caattatctt 420
atgctaactc aagaaaaggt gtctaaggca ggggtcccca accttggtgc catggactgg 480
gtactgtggc ctgttaggaa cccggctaca cagcaggagg tgaggagcag gcaagcatta 540
ctgcctgagc tccacctnct gtcanatcaa ccggnggcat caaattctca tcggaacttg 600
aacccttatt tttgaactgc ncattgttan ggataggttg cattgctccc ttatgagaaa 660
tctaacctaa tggcccggat gaatttgang gggaaaaaaa atttcaatcc ttgnaaccac 720
ccccccnaac cttgtttggn gggaaaaaaa nagnctttcc nntnnaaacc cggnccccctg 780
gggncct 787

<210> 5001
<211> 900
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(900)
<223> n = A,T,C or G

<400> 5001
nggntctttt gnaatttcta acacctgctc tttctaatnn ttggaatccc tcgattcgaa 60
ttcggcacga ggnaanaacn gctctggaga aggccacgac annncanaga nntcaagtna 120
gaaanccacc agnctaactn naggattnag nancctnnnn ancgcnntna ggnncaatga 180
ggctgacctt gaggctcttg gnagggaaca cttgncggca cnnagctctt gtgcgtnctn 240
ggtcactttg ntcntatcca ttctctgaca ccccagttnn nattaancac ccnanntnag 300
antntctgcn nggtgccngg cannttntta cnnangccct tctncnttnt tcnncannat 360
ccnccnnttt ccntnatcnt ttggntcgga tanannnttn ctngnaancc nttngntttt 420
ctttnancan tnattctnna ncccaaaatt tgctttttnn gtcttcttgn atttttcnct 480
naattgccct ttcnatctcc tttnatnttn atcccntttt nttttccct ngcntttncc 540
ttcatacngt nttccctttt nttnntgccn atnttncaat nggcncctac ttttatcccn 600
ttnngggctt ttttgtccnc ttnntttttt tcttccnant tcctccctta tttctcnacc 660
ctntataacn tacntnatct ttctctaaat tncccccnntt tcttctnttn ttntccctnt 720

tttttttgtcc ancntacata cttcnntnnt tttnggantc tcnncctatt tntntcngnn 780
tcaatctatc tatcccnntn tncnnttnct ncnttncnnt ntcnnttcta tnntnnttct 840
nttattnncn tntnctntta gttnntcttt tacntactan nctttttcnn tttntnnncg 900

<210> 5002
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 5002
gtnnctaaat ggcnggcctg ctcgttnctt tctcgcagga ncccnncgan tcgaattcgg 60
cacgaggcgg nncggtccng tacatggctc tgtntgtcac aannnnacgc nntgnntgcc 120
cgttcncnat acnatagtgn ngctntgtcc aaatcntgga ctctgccctc natgaacttg 180
tgctatccag atgaccnngc tacatcactg nttgctncnn gtactngcan nnnncacgna 240
atgtggnant gnatgganac gntgaacctt ttcnnactat ngcccntnct tntgnaatca 300
nnataaccct gtttggnact nttntngggc tnctattcct ggctgnggtn tgnctnacac 360
tgaccaangg gcctgtgctg tananatgcn annntnntnc agngntncct ngtnactntn 420
ntaaggcnna tttnatntga nantnatgca cnattngccc agtgagcnnc nagttcagng 480
nncgcannat ggngancgcn gtgcttancc nagntctgtg nnaggctatg cccatntcaa 540
ggcntgcatg gaactatgat ggnnncannn nattcnangc ngtgtgncng aatgagatcc 600
tngcacaagg atatcatncn tncagtnatg gctgtncaac tctggantct angcatgttc 660
cgannntgan ggnancagat tnantgngac cctgactggt gcnnngnanc ngnacattga 720
aaaccngccg ctgc 734

<210> 5003
<211> 934
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(934)
<223> n = A,T,C or G

<400> 5003
nggnnnnttt naaaattctt natatacngc tacttttcaa atnnttggat cccatcgatt 60
cgctggcggt aaggctggaa agggactccg gaaaggccaa gacaaaggcg gtttcccgct 120
cgcagagagc cggcttgcag ttcccagtgg gccgtattca tcgacaccta aaatctagga 180
cgaccagtca tggacgtgtg ggcgcgactg ccgctgtgta cagcgcagcc atcctggagt 240
acctcaccgc agaggtactt gaactggcag gaaatgcatc aaaagactta aaggtaaagc 300
gtattacccc tcgtcacttg caacttgcta ttcgtggaga tgaanaattg ggttctctta 360
ttaaagggtt cnattgctgg tggtgggggt catttcncac atttcccnaa tnttttgaat 420
tggggaanaa aaggncccc cnaaanantt gtcttaaaag gattccctgg gatttccttg 480
ggtatcttca aggacttctt naaatacctc tttaacaagc ttgtnccaaa tggtttgggt 540
ggaattncca nttgggacct tggtattctt cttggtggna aaaaaccacc aaatttttgg 600
ccctttttt gggnaaattc cttaattttg gaagccnaaa tttggggaaa agnttttaaa 660
atttaagncn tttttcccaa acccaaaacc cnaaaatttt cttggccant ttccnaagtt 720
cntttaaanc cntttntttt naaaaatngg ttnaccttgg gggggctttt cnaaaaggaa 780
aagccttntt tggaanttct tggaaaantt aattgggggg ttttttggaa tttggaaatt 840
ttggacctgg gnttttttna aaaaaaacct gggtttnggg aatttttaaa attggnggaa 900
ttncncnaaa agtttnttng gtnaanccaa accn 934

<210> 5004
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 5004
ttnnnnnncn cagcttcnng ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ncnngatggn nntgaatgnc angnntatnn cagatgagac aagnganaca attgtgtccn 120
tgtantctnt nnggngncnt ngntgcnggn gaaacatnaa ctatnggcan gntaactgna 180
cancntagac ccanngatnc nangncaggn cantantggg aaccnccant nanggntntt 240
ttnnctatgn tcacagcnnn cacangtnna gnctgangnn tnananngac nnangagana 300
nnncatttta atngntnatg ngaaagangg nnaanattgn ccnagagntt agctcttnac 360
antactntag tcntgcaagg agtagccgtg ngccngatca gngaangact gagnnctcan 420
anctacccng cnctnactgn atgnngactn gcatgntnan cnaanntaac ctgngagccn 480
ncgngcnnag cctntttgtn agaagncnan tcngtnntnc acntgcccnn agntagcgct 540
ttnngnntna cngacaacac caactgggnt ggtggcctnt gtcnganttn gaananangc 600
nntnacntgc nngctcntta ntgaaggatt ggatactgan anntacactc cngacntttg 660
cnaaaatgga aaannantgg tctctnggan ggnaactntt nnacngngan ctgttctant 720
aaaatannac gtggatgaaa agcttactgg ncacngt 757

<210> 5005
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(757)
<223> n = A,T,C or G

<400> 5005
ttnnnnnncn cagcttcnng ttctttttgc aggatcccat cgattcgaat tcggcacgag 60
ncnngatggn nntgaatgnc angnntatnn cagatgagac aagnganaca attgtgtccn 120
tgtantctnt nnggngncnt ngntgcnggn gaaacatnaa ctatnggcan gntaactgna 180
cancntagac ccanngatnc nangncaggn cantantggg aaccnccant nanggntntt 240
ttnnctatgn tcacagcnnn cacangtnna gnctgangnn tnananngac nnangagana 300
nnncatttta atngntnatg ngaaagangg nnaanattgn ccnagagntt agctcttnac 360
antactntag tcntgcaagg agtagccgtg ngccngatca gngaangact gagnnctcan 420
anctacccng cnctnactgn atgnngactn gcatgntnan cnaanntaac ctgngagccn 480
ncgngcnnag cctntttgtn agaagncnan tcngtnntnc acntgcccnn agntagcgct 540
ttnngnntna cngacaacac caactgggnt ggtggcctnt gtcnganttn gaananangc 600
nntnacntgc nngctcntta ntgaaggatt ggatactgan anntacactc cngacntttg 660
cnaaaatgga aaannantgg tctctnggan ggnaactntt nnacngngan ctgttctant 720
aaaatannac gtggatgaaa agcttactgg ncacngt 757

<210> 5006
<211> 779
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 5006
nttngaaatt ccatatagna ntgaacggga antccccttt ntgcaggcag cccatcgatn 60
cgaattcggc acgagaagan gtttgattct ttagataacn cttttnangt gctataaagg 120
gcctagttta aaaggaactt cttttgaaaa gcaattaaca gttgataaag ggttaaataa 180
aaattatcta gtaaggaatt tcttattgga atgtaaacgt ggttctaatt ttaaatagac 240
agtgatataa agaataaaaa gtaaacagtg aaattgagtt ctccagggaa aaggcagacc 300
tgtttagtaa aaaaaggatg ctttttttcag tgatgtcttt ttttgagtgc atatgtgtgt 360
gactcttgaa gaaatccatg ttcagattta tcagatgatt gaagtgggtg ttctgaataa 420
agaaagctgt gaggcctgag gcagtgaccg tatcaggaaa catattttat tggagatttg 480
gaagctatag taaaacataa tggcaataag ccaacttccc agtggtaaac ccacagnggt 540
ggnttagttc taacctcttg atgaccgagg aggntaataa ttggatattg cagagcagca 600
aatatgtaac cngngngtaa tctcanggcc ncangntaan cagnttccag ncagaagccn 660
tagaagaaac ccctgaccaa aatttagctt accccggacc tangctgccn gcntatgngg 720
gncngggggtt cntcngggtt taaaagaaac ctaataactg nccacaanac cnttgaccg 779

<210> 5007
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 5007
ctgnnncnng ccgatccang tagaactcat gggaactccc gcaggancc agggngncga 60
acgnggnncg aggnaccgcg agagaagggn gggtttaact acacactttt naaccntgct 120
taacanaagt attatatang nacagtttca tacaggaatt acctcaaaag ggagtctnat 180
gangagcaac tacagatagn tgcaagggat catacagaag atatcgatga taggtgaaan 240
atgcttagaa ggggtgtgaa tgtctagcng ngacnaccat gtgtatgtat ccttgacaag 300
cagtataaaa taccngtgan gtnttcttta cattacggga taangcataa ggaatcaatc 360
nccatatana ctatcanccc taatgnagca aggggaagta tntaattgcc catgatatgt 420
annttactna tactatgcca gagaggaaac tataaagtaa ttacacangt aaacttgggt 480
ntttcacana cgnaggtatt cattnngagt acggtgaaga agaaaaanga atatcnaaat 540
gaactgaanc cngatgggan agtatcaaca agtntntaaa agcccaggat tctaaaaaac 600
aataaagggg cacgggcant ttttggagtn ngnacancct tatgccnant ggcnaanaat 660
nccaaaaatn aaaagcggna accattgggg aaccccgggt ggaccntaaa nggcnacnta 720
aatnggggaa ccagcnantn gangaatgan ggaaccaaag gggggttagg caaataagcc 780
aaaaccccca anaaaanant nnngggncca aaannnccg 820

<210> 5008
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 5008

agagnnnnnn tttnattctt tgnnctctaa nagcttggct actngttctt tttgcaggat 60
cccatgcgat tcgaattcgg cacgaggcca ccttctaagc aagtgatggc ctggctggtt 120
cagtaccctt tgcaccctgc tttttaaatc ttattctgca cacttttca tatctattca 180
tatgattaga catcatcatt ttaatggctt catggcattc cattttatgg gtatattata 240
aagagactaa tacagaatta tgttccttac aatacatgat ttttaaagtt ttaaaagcta 300
actggggtta catgccctca ggacaagaca cataaacaca ttttgtngac aaaaaanaaa 360
aannaaaaaa aactcgagcc tctagaacta tagtgagtcg tattacgtag atccagacnt 420
gataagatac attgatgagt ttggacaaac cacaactaga atgcagtgaa aaaaatgctt 480
tatttgtgaa atttgtgatg ctatngcttt atttgtaacc attataagct gcaataaaca 540
agttaacaac aacaattgca ttcattttat gttncaggtt cangggagag tgtgggaggt 600
tttttaattc gcggccgcgg cgccaatgca ttgggccccg gtcccacttt tggtcccttt 660
agtganggtt aattgcnccc ttggcgtaac atggncatag ctgnttcctg tggggaaaat 720
ggtatccgnt cacaaattcc acaacatacg ag 752

<210> 5009
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

<400> 5009
tttnnaannn ncagcgtnnc cnccnttncn ctncgtgaaa ccctttggca annccccccn 60
nnnngcagga tcccatcgat tcgaattcgg cacgagattc tctcaataat ggccagccga 120
aatttcncgc tgccaggcat ctgcctccgc ggggtcatta aactcccaca gtggtcaccc 180
cactgctgat gtacagactt tccaggcaaa gcgccatatt catcaacacc gncagtctta 240
ctgtaattat aacactggag gtcagttaga gggcaatgca gccacttcct atcanaagca 300
gactgacaaa cccagccact gtagccagtt tgtgacacct ccgcggatga ggagacagtt 360
ctcagcaccc aatctcaaag ctggtcgaga aaccacagtg tanaatcaag tnactggaca 420
aacttgaaat catggtggaa gaaacagaca gngttagctc atgatnngat ttggtnctac 480
ctttggcctt gagttcttat tatttacatt ataaanatta actggttnta tattgntaag 540
acaaaacact ggtaaaagtn gcaacacctc cctnntgctt gtataccata aatgggcagn 600
ctctggaaat tnatggataa agcatcaaag aaactgcnnn ngtgctgaaa acgtttctnn 660
ctttntttag ngcctnaatt taagatactt tactttacnc ccncntngna atctgggnng 720
cangnntctc ttttanggnn tggnaaaana ncggncttcg cccctnntaa acttnnagnn 780
gngtngggat taccgcnaaa ccccngacc 809

<210> 5010
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 5010
cnaatgctgg tngctngttc tttttgcagg atcccatcga ttcggggcta gcctgcacgc 60
acgccaagat ggagctccag gctagcccac agaacagccc agccgcagcc gtcctaccag 120
accagcacct tgtaaccaca gtctaaccca gcgggcacca ggcggtgaga cctcctgccg 180
ctgccagccc aggatagccc ccttgcctct tgcccaaggc tcaggctacc ccttgaggcg 240
tctggaggac actaggcttg acctggggag tggcatgatg gggggcaggg tccgaggcaa 300

cggagaaggc agaagtgact tagattgtga gtgccacggg gctgaggcct gcgccgacct 360
ggtctgctgg tgctaccagg cttgaacagt cttcaaatcc actgctatta ggcaaattac 420
ctggctcccg ctgaactcca gcacctagaa ctatgtcaca ctcgtagtag gccgctgcat 480
tggttgaaca aatgattttg aaagaatgaa tgtcttcctc tgtgcctgca tttcctcaga 540
aggctgtaac aaagattaaa taggaaaatt cgtggaaagt tcaaaaaaaa aaannnnnct 600
aanantcatn nnannnnang agnntnaaaa aaaaaaaact cgagcctnta aanctntagg 660
gagncgtatt acgtanatcc agacatgata ngatncattg atgagtt 707

<210> 5011
<211> 666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(666)
<223> n = A,T,C or G

<400> 5011
atgtgntaac acacataggc tcaangtaaa ggggtggcga aagatctgtt atgcagatgg 60
aaaaaaagat caggggtcac tattcttgta tcagataaaa cagacttttt aaatcaacaa 120
cagtagaaaa aggactaggg cattacataa tgaagaaggg ttcaattcaa caagatttat 180
cctatacaca cccaagattg gagcactcag atttctaaaa ctattatttc tagacctagg 240
aaaagaatta aacggccaca taataatagt gggggacttc aacacctcac tgacagtgtt 300
agatagatca tcaaggcaga aaactaacaa attctgaact taaattnaac agttgactaa 360
ttgaacctaa tagacatcta cagaatactc cacccaccaa caacagaaca tacttttttc 420
tcatgtgcnc atagaaaata ctctaagatt gccacatgct ttgtcccaaa gcaaatctca 480
gttaantcaa aaaaagattg aaatcatacc cangcttttc agactcctcc atagtaaaaa 540
attggaaatt caacaccaag agnaaactnt caaaaacatg ggaaacttaa acaacttgct 600
cctggatgac cttttggggt aattgttaaa atanggcata catnaacccc ttnttgaaac 660
aaatgg 666

<210> 5012
<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

<400> 5012
ttcgtnnttc cngtagaact tncngcaaaa tcccgtancn gcangagccn atacgatccg 60
ggnccgntga acnaactaga ctacgcngcg ngcnggcctg tttnaaanan tggccagnnc 120
ttcttnagnc ngtagctcaa aacctgtgag natcanacat canaaatgng ngaaannntan 180
agccnntnga anacaacatn ngngacaacc nacnanacaa nactatgggg ancagcttnt 240
ccatgtgang catagccang atccataacg anaangaaac cngaacccng gncnntcnca 300
anatgnaana cncntgcnnt gctgcaatgc ccngcaaagn cgatgaaana acngggctac 360
atacngcgag gaaggactat gcaactgctn ggcaggacta ntgactnnaa nctgngatct 420
nnnnggnact nagaacngaa nnctnnaaag gnngacagnc caanttnaaa acgngnaaan 480
gnacngcntt cgacaacaag gntatncnga tntcatctga acacnggaag ggaaacnnan 540
aaccctanac gagnatnngg atngaannng gacnntanta nnaacgcacc ctttaagaac 600
agcttganct cacncnngaa ccngccatnt ttaaccccag ccttgggcac caccaggcaa 660
cgacaccagt ctancaaagn ctnangcnnn naananatna gcncccagcc cngaaacgct 720
gnggccngga atatncaagg aaaccagaac tcttaaaacg gtttcccagn nggggaattt 780

taaaaaaggg gccaacccct cc 802

<210> 5013
<211> 874
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(874)
<223> n = A,T,C or G

<400> 5013
agcgggnttt taaaccctta tnntatncnc tnngaaacna aatcgcncta aaaggggngg 60
gggcgcgagc ccntnnccac cccattncca aangaggnnt cantggggtn nggccgngca 120
ccattatccn nncccattcg naccnntaaa ncgctctatc aantacaana ncatgacctc 180
cnctncatct ntctnctacn cttnctnana cantattnan tccacttgat ttttttttc 240
ttaanactan ttatattact gctnctcggn gnctgcntac cnttnccatg ctaaggctgg 300
nacancagnc ctgngnncna taccgtgnaa tccnccagga nancnanccc ctnngnancg 360
gaggncccgc annnccccnn atgcnnatag antagttcna nggactnnag ntncnatcaa 420
caactnnctn gnggngcagn ccnnctnncc ttnncgacng cccntnanct acgggganct 480
gnatnatncn ctntntcata tgnaatccnn tnttnnctcg gtntggngca caaacgannn 540
nntactagga antcttcctn natagnccnt aanannacaa ngaatgggat taananctta 600
nnccctttngg ctccanggna gaacancnnc ataccnnttn gggntttngn ntaanaantg 660
tcctnannng gggnantaac taangnnacc cctantncct nntcgatccc cctanaagaa 720
ntnttcctnt atctttctct ccaagtacag ancncntagn naaaggntcc catntctatg 780
ngnccntncn tttganacnc tnnctgngng acccactttg nctnngaang gncatnccat 840
ntnaanctta accatnngnt tattgnnctc gccc 874

<210> 5014
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 5014
agttcatcct ttcnaatngc ttggctactt gttctttttg caggatccca tcgattcgaa 60
ttcggcacga ggtttttttt ttttttttt ttatagggat cacttttatt tcaaacaatt 120
aaatacaaac caatatttta ccccttcata gatgaaatca catcttttca ggatatgagt 180
ataaagtaac aagcctaggg cagagcttgt actgacaaag tcctgaaact acaatgagag 240
gaaacacatt gctctacttc gggataagtc atgaccgaga ctcaatttca gagacgctct 300
atgaacagag gtgcttgaag ccacagtggc agaagggaaa gatggggaag tgtgccgaag 360
agcctccagg catgacagac agtcccctga ccaagcacaa gtaacaggcc ctttgggtct 420
ctgcttctca ctggaaaatg atgaagccta natctgatga ctcctagtgc caacatttaa 480
caaagttcga aagttatgca ggacttcaca catgtacgga atggctgtat cacagaatat 540
tatgccgtta gaaagttcac ggncactatt acctagcttc taaaattttt cagaagaaac 600
agcagactta ttaagtggaa tcttaaatta aagggattan cattttaatg gaaataaatg 660
gaaaccagag caggggaacc caaagagccc anttagggga aagaatcctg aaaaaagtnt 720
ggntttacac cangnancag cntttgaaag aaaaaccccct nttggatttt tttcccanaa 780
na 782

<210> 5015

<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 5015
gccccccnnn nnnnnnnttt tcaaannccn ttnnnnnnnn nngnnnnttt tannnnnttn 60
ttannnnaca gctcttgttc tttttgcagg atccctcgat tcgattcggc acgagctacc 120
ttgggctggc cctctatnat gctntgaggg gagctgggac agatgatcnt nccctcntca 180
gngtcatggn tnccangngt gagnttnatc tgccnnacat ngtgacggag tttaggaaga 240
atgntgccnc ctctntttat tccatgatta aggganatcc atnnggggac tataagaaaa 300
gcnnttttnc tgctntgngg ncaanangan tnacnngncc cgggnnanag ctcctatgct 360
gtntgcctgc accacccccc gccttccttc ataccttccc ntggatatgn atgccagggc 420
ttnncacatt gcctnattna tactnacntg ctnatgacca anacatncac gtgataacac 480
aaacantggg tgcttgnttc tgatcnctag aggnganctn ttggnnngnt ggagnactna 540
antnttctna gtgtnacttn agttcaatgc ctggccatnt gcnatnacct tatatcntnc 600
aaagaggcta ctgtgctttt ancctttttt aaaacctcca tctgtattac attgnnaacc 660
angtttcttt aatnaggagc ttgacctcta nantgggaac tcttgggaat ggncttagtg 720
aagttcgcna ctaacttaac ctgaaaatta tnatgnnctg tttnacctat catgttnata 780
actnt 785

<210> 5016
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(785)
<223> n = A,T,C or G

<400> 5016
gccccccnnn nnnnnnnttt tcaaannccn ttnnnnnnnn nngnnnnttt tannnnnttn 60
ttannnnaca gctcttgttc tttttgcagg atccctcgat tcgattcggc acgagctacc 120
ttgggctggc cctctatnat gctntgaggg gagctgggac agatgatcnt nccctcntca 180
gngtcatggn tnccangngt gagnttnatc tgccnnacat ngtgacggag tttaggaaga 240
atgntgccnc ctctntttat tccatgatta aggganatcc atnnggggac tataagaaaa 300
gcnnttttnc tgctntgngg ncaanangan tnacnngncc cgggnnanag ctcctatgct 360
gtntgcctgc accacccccc gccttccttc ataccttccc ntggatatgn atgccagggc 420
ttnncacatt gcctnattna tactnacntg ctnatgacca anacatncac gtgataacac 480
aaacantggg tgcttgnttc tgatcnctag aggnganctn ttggnnngnt ggagnactna 540
antnttctna gtgtnacttn agttcaatgc ctggccatnt gcnatnacct tatatcntnc 600
aaagaggcta ctgtgctttt ancctttttt aaaacctcca tctgtattac attgnnaacc 660
angtttcttt aatnaggagc ttgacctcta nantgggaac tcttgggaat ggncttagtg 720
aagttcgcna ctaacttaac ctgaaaatta tnatgnnctg tttnacctat catgttnata 780
actnt 785

<210> 5017
<211> 1425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1425)
<223> n = A,T,C or G

<400> 5017
cntnttaaaa aaatattgaa ggcctntgtt gggaacccct tngggggnac ccttgganca 60
tttttgggng nncccncctt naaaacnatc aagaaaaata atgggngggt cttttnnggg 120
ggnnncncnn nnncannnan ccnatnnann nnnnnnanntc nnnnnnnnnn atntnacata 180
nancnccncc aananccnca ccnctttncn tnncnncctc nnnnnnnnnt nnacncnnac 240
ntnnnaannc acnannnnna ntnnnncnna ccnnatnccn atnccncnnn ncannnnancc 300
ancnanccnn tnntanannn nnnatncccc nnnnnntnta nnctctccta ctccatncna 360
cntncccnac cnntccatct naaacnannc nnantnanct ncnanncntc ncnncaaann 420
naatnnnncn cctccacaca cantnnancc tctacnnant ccacnccann cccnncntca 480
nccccncaca anncnnntcc nacncnnnct cannacntta acannacnaa cccncccatn 540
accanaccnc ccccannnct ncnccntnac tncncancan cannnnncnc ccnactnnnc 600
nccnactcna acccannann tnntatncnt cnccnnnann nnnncaaanc nannnacncc 660
ncnnnctcat ccannntncn cncnnanann tctnnnncnc ctcaccannc acncccncnn 720
acanactatc tctatacnca ccncnctnnn nnannnnnnn nnccancnca nacanncnnn 780
actccntnnn tannnaaccc cnncnacnnn nntcncntnn accanacncn cncnnnnnaca 840
ntantaccna ncnnnccnac nanancncnc nnnntcacnn nnnnntntat cnantnctct 900
nnctnnatnn cnnctttctna nnnannnncn aacnnnncac ccnncanctn atacnantnn 960
nnactnannn ncatnancan anannnncat atannacaca cnntanacta cnctacnatn 1020
cannnactnt cncnannanc tnncancana natcnnncnc nnnnntcann cnnnnanatc 1080
nctcancann ancncntnan ntncanannn tacnnncnnt nnnnanatnt cactcncnan 1140
nnatcactcn cnnnnncntn nnncccannn nnncnnncnc anactcnnta cnntatactn 1200
ctncctctan tnnnantcnt ancnnnnctn tcnnctntct nctcantcnn cncccactct 1260
ataccnnctn atntnncann tnnnannnnc ctcctctncc ctcnacctnc ntccacancn 1320
cncacntcnn nataccncnn cnantccatc nacacnatca ctctncacnc acnctntcna 1380
ctactantnc tcctnaacta canacccanc ncnntnncac ancct 1425

<210> 5018
<211> 794
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 5018
ggcccccnnn nttttttttt ttaaaannnc ccccttttaan aacnnggaaa aaaaacccnc 60
ctttttttgg ggccctnaac ctttnggccn ttcctttttt tttgggcccn gggggnaatc 120
cccccnattc ccggnatttt cccggaaaat ttnccggggg ccaaccggaa ggcccagggg 180
ggaacctggg aatgggaagg gggtnccttt taaaccaaaa aaaaactntt gttgggtngg 240
gnccannnna nnnananana nanannnnnn nnaaaaatcc cttaaaaaaa accaaaaacc 300
aaaaccanaa aaaaaaaaac caaatttctt tcatttccan aaaaaaaatt attctttang 360
gggacctgga atattgggta aattatgggt caaatntaaa taatattttg gggcattcct 420
tacattgctt gcaagataaa atgctgtgcc aaaatttgat tttatttgga gacttcttat 480
caaaagtatg tgcaaaggaa gctaggatag agtgtccatc cttgttgagt gnttctaaaa 540
tntnttctga tgcatatttt acttggtggg gagagatgnc cagctcctct gtcttgaata 600
acttattgct tgttncctaa ctttgtagaa tggctttcgg aaaatagaaa tctntatagt 660
nagataatga taatgttctt attatattga ctgcaatgca ataaaatctt tgntaaaaaa 720
aaaaaaactc gccctaactt agtgagcgtc nanancgctg aagacattgt gagtggcacc 780
cactgatgng gaan 794

<210> 5019
<211> 957
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(957)
<223> n = A,T,C or G

<400> 5019
gtnattctan tnnancnctt tcacnnaccn ggtaccccac ccgggtggaa aatcgatggg 60
cccgcggccn ctctagaagn cntnngtgng tcacangntt ntccccctat ggcctcacaa 120
agtgctnnna ttatacgcgt naatccantg ngnntggcct anagtnnnag tanncatgat 180
ttnngcnntg ttnnngtcct ggnttccaaa ngnagnggac ctagctgntn atcaattntt 240
ntgagctaaa ctgnntagnt ccannncctn ntgatantct ccntnnanna tcgaggtatn 300
actagattaa ctnggnaacn nacanggatc anatncactn ataatanacn nnatnaatna 360
nntcnacact natccnnctt tngctnnata tntgnanaan caannnactg aaaacntnta 420
ttnnttaaag nnntncgnct tnatgactca gttnccnaan gctntatnnn tattntgntg 480
tgtnnatatc caanctnncn nccnnnncnt tgtttgtnnt gctcntnncn gtttcaaana 540
gaataanaan nctnntnnnt nnctaagana nacattcntn agctnactat ncnntactcn 600
atnatnattn tatgccaana ntgtagccnt ccnnatntat nnctaaaaan ttnacgncta 660
tatannacng naccttnnca tanccggntn taanncnggt ntngatctcn catnatntcc 720
tataaanngt gtntatacgt tnactcccaa tcttnccnta cgtgaaaacc nttntttctc 780
attnaatnaa aaacggtgtc taaaaanncg aanntnaccc ttgctgctct tcatcgnaat 840
ntatacnnta tcntatcgna tnttanncat agaatncntc tcttaaagng cngncaatna 900
cnnaccntnc gncttatgnt gntngattcc ccctctntca naannccena aaannec 957

<210> 5020
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 5020
gtnttccttt caaatngctn ggctacttgt tctttttgca ggatcccatc gattcgngta 60
gccgaccngc tgctgtnncn ggtgcttgnt acgaacgttg ccacnannct gagantngtn 120
acnctaganc tgnaaacntn atngttnnct gcctgnatna ccnagnaggc tnnnatactn 180
aagatngcaa tnctgannaa ncctgcntna tgtncnnnng tctctnanta ccagannntt 240
gannnnttac tggnttatta gatggctatt atctctaaat tcnggatgcc tacctggctt 300
ataacctnaa ngaattnact ggagnactcn tntatgatnt tctgcccacc tgtgatnnta 360
cccatgaaca cgctntggat actgngaaat atcggatnta ntgccatcct gcttnatgga 420
cntntnactn agantaagcg cntaagannc nttaataagt ttaaggccan ngccnnntnn 480
attcttctag naactgncat tgccaangcn aggtcaggac atacctnatg tagatgatgg 540
atggtcaact aatgacatnc ctgacccatt ccangngatc accntccatt ngaattgggt 600
cctagccang atttgaagct tgggcgctta cggganaang ncncttactn tttggttaan 660
acaagttttg annggttggg naantttttа acaaacgcca tttggaacac ttttaattgg 720
gngaataaaa cttcccccgg gtnttgggaa aacncggatt gntgaaaggg taatgaatgg 780
gtnncctgga acggnggtaa ntttggaa 808

<210> 5021
<211> 788

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(788)
<223> n = A,T,C or G

<400> 5021
cttaannaat ncnttatcgc ttggctactc gttctttctg caggatccca tgcgattcga 60
attcggcacg aggtactntg agtgtttggg ggttnnncac acacatgcaa ttntgcttaa 120
caaaagtatt ntataataca gnttcataca gaattacctt aaaagggagt cttatgtttt 180
caactacaga tagttgtaag ggatcataca gaagatattg atgatagttg aaatattctt 240
agaaggggtg tgtatgtcta gctgtgtcta ccatgtgtat gtattcttga cnagcagtat 300
aaaatacctg tgatttttct ttacattagg gataatgcat aaggaattaa tcttcatata 360
tattatcatc cctaatgtag catggggaag tatttaattg cccatgatat gtattttact 420
tatactatgc catanaggaa actataaagt gattacacat gtaatcttgg gtttttcaca 480
tatgtaggta ttcatttga gcaaggttga aagaacanaa naaatattta aatgaattga 540
attcctgatg ggatagtatc aataagtatt taaaanccna gtattctnaa aatattcagg 600
ggtangggtc atttttgagt ttgggntttc ttttncgaat gggtaaatat ttcaaaattt 660
aaangggtta caattgggtn ncctgtnggn cctnaaaggc cttttatttg gggnaaccag 720
ccnttnngaa tnnatngaac caagggggggt ttagccaatt gccaaactcc tataanttga 780
ttttngcc 788

<210> 5022
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(704)
<223> n = A,T,C or G

<400> 5022
gnnctaatng nnggctatcg aactnccgna nanaacgngc ntncgaattc ggcacgagag 60
gttgctcacc tgaaggagca caggagggtt ttccaggcca tgtggctcag cttcctcaag 120
cacaagctgc ccctcagcct ctacaagaag gtgctgctga ttgtgcatga cgccatcctg 180
ccgcagctgg cgcagcccac gctcatgatc gacttcctca cccgcgcctg cgacctcggg 240
ggggccctca gcctcttggc cttgaacggg ctgttcatct tgattcacaa acacaacctg 300
gagtaccctg acttctaccg gaagctctac ggcctcttgg acccctctgt ctttcacgtc 360
aagtaccgcg cccgcttctt ccacctggct gacctcttcc tgtcctcctc ccacctcccc 420
gcctacctgg tggccgcctt cgccaagcgg ctggcccgcc tggccctgac ggctcccccc 480
gaggccctgc tcatggtcct gcctttcatc tgtaacctgc tgcgccggca ccctgcctgc 540
cgggtcctcg tgcaccgtcc acacggccct gagttggacg ccgaccccta cgaccctgga 600
gaggaggacc cagcccagag ccgggccttg gaaaagctcc cttgtgggag cttcaggccc 660
ttcagcgcca ctaccaccct gaggtgtcca aaagcccgca gcgn 704

<210> 5023
<211> 729
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(729)

<223> n = A,T,C or G

<400> 5023
gnnnnnnnnn nntttgttnc taatngcngg gtggctcgnn ctttcncgca nnagcnnngc 60
ngtgtcgaat tcggcacgag atttcaattc atagcaaact ggtgttttaa actattgcag 120
tagctggaac tttttagtgt aaccagcatt tattggagaa gtgaatcaca aggaaataaa 180
gatgagtaaa agcaaagatg atgctcctca cgaactggag agccagttta tcttacgtct 240
gcctccagaa tatgcctcta ctgtgagaag ggcagtacag tctggtcatg tcaacctcaa 300
ggacagactg acaattgagt tacatcctga tgggcgtcat ggaatcgtca gagtggaccg 360
tgttccattg gcctcaaaat tagtagacct gccctgtgtt atggaaagct tgaaaaccat 420
tgataaaaaa acttttaca agacagctga tatctgtcag atgcttgtat ccacagttga 480
tggtgatctc tatcctcctg tggaggagcc agttgctagc actgatccta aagcaagcaa 540
gaaaaaggat aaggacaaag agaaaaagtt tatctggaac cacggaatta ctctgcctct 600
aaagaatgtc aggaagagaa ggttccggaa gacagcaaag aagaaatata ttgaatctcc 660
agatgttgaa aaagaagtga aacgattgct gagtacagat gctgaagctg ttagtactcg 720
gtgggaaan 729

<210> 5024
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 5024
gtnnctaatn gngggctant cgttctttcc gcagganccc ntcgantcga attcggcacg 60
agctctatct tgtttattgt tgatgccatc ttagaggaaa aaatgtaaag gtaagtaatt 120
aagcatatga cagcaacaaa taagatactt ataacctaat gggactttat tttgtagttt 180
tatgtattac aaaaaatcca cctttctcta aggggaagtt tgtaccccat tgattcttgg 240
tgcctttggg atcgactggg ttttaatggc ctagttattt gaggattttg ctgtgttgtt 300
ttccatgtct tctctggtca ccttggatta tatataaaaa tacaggaaat agataaacat 360
gaatgtgatt aataatgctg aaaaagtatt agcctaccaa agacacactc aggctttagt 420
gaataacttt acataacctc agtttttaac acatgcatat cttctccaac catgaaatca 480
aagcacggtg cagaacttgt accaagtaca aaaggtccat gtatgattag cattattttc 540
ttttgctttt gtttatggac aatgttcagc tgacataagc agaagttggc caaaatactg 600
cctgtactgt taatttcctg tataattcac ttaaataaaa gcaggttaac ctcaatgata 660
gcagttaaaa tgttctatct tatgtatttc ttttaagtat taccaa 706

<210> 5025
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

<400> 5025
gtnnctaatn gngggctant cgttctttcc gcagganccc ntcgantcga attcggcacg 60
agctctatct tgtttattgt tgatgccatc ttagaggaaa aaatgtaaag gtaagtaatt 120
aagcatatga cagcaacaaa taagatactt ataacctaat gggactttat tttgtagttt 180
tatgtattac aaaaaatcca cctttctcta aggggaagtt tgtaccccat tgattcttgg 240

tgcctttggg atcgactggg ttttaatggc ctagttattt gaggattttg ctgtgttgtt 300
ttccatgtct tctctggtca ccttggatta tatataaaaa tacaggaaat agataaacat 360
gaatgtgatt aataatgctg aaaaagtatt agcctaccaa agacacactc aggctttagt 420
gaataacttt acataacctc agtttttaac acatgcatat cttctccaac catgaaatca 480
aagcacggtg cagaacttgt accaagtaca aaaggtccat gtatgattag cattattttc 540
ttttgctttt gtttatggac aatgttcagc tgacataagc agaagttggc caaaatactg 600
cctgtactgt taatttcctg tataattcac ttaaataaaa gcaggttaac ctcaatgata 660
gcagttaaaa tgttctatct tatgtatttc ttttaagtat taccaa 706

<210> 5026
<211> 968
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(968)
<223> n = A,T,C or G

<400> 5026
gtaccaatgc tttgctactn gttcttttcg caggatccca tcgattcgaa ttcggcacga 60
ggcggacacc aagtctggac cacctcccgc tgcgtttnct actcanagaa acatcnnggg 120
cggngttaan acacggnatn acnggaagca ngannennng cancagcnna gnntggggtc 180
ctggcnctgc nngctangcc aggatgncca tcccncccct tanactgtcc cttgnggcct 240
gtgctnntna aantggtnnc ngtnagcnct gccngnttnc cntattatnc ccacnctnng 300
cttctnaatn ctttatgntc cntntnanan naccttncta tactgtancc catcttnctn 360
tnaattnntt ttcanggatc tntnatattn tnttncaaan tccncnatan tnantnatta 420
ngtntnngan ttncattcat attaanttnn antncattnn nctngttnan nnttnttctt 480
tctnnnnngn ttncnnnttc ttataatnng taatttantt nnctnntatc tacttnttan 540
ttctttcaat cttnaattnt ntttacatnn nctnctcatc cgntnttacn nntntcattn 600
ttaactctac ctttctcntt ctgtnntaac ttactnatna tcncttccng ttntttatat 660
ntnattcnct ctnctcataa anctatctnt nctctcncna ttcttgactt tcnctctccn 720
tctcttatat ctctcgtctc ctcncaatat ntctctatcc tctntcnttt cacattctta 780
ttntncnatc nttcggnntn tctncttntt ctctcntaca cnttctanac ttctatnant 840
cttcactcat nncnctntnn nntcnacatc ttacnnnnng tgcttnttan anntttannt 900
acatancnta ntcctctaat ctatatntca tannactcta ttgcttntnt tctcnnaatc 960
acacnanc 968

<210> 5027
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 5027
gnnnnttnnn nnttttttgg gtcttncgct tgttctttnt gcaggatccc atcgattcga 60
attcggcacg agggatcact tgagcccagg agtttaagtc tgtattactg gaaaggggtc 120
ccaatccaga tcccaaacaa gggttcttag atctcacaca agaaataatt cagggagcgt 180
ctataaagtg aaagtaagtt tactaagaaa gtagaagaat aaaaaatggc tactccacag 240
gcagagcagc tccttggggc tgctgggttg cccatttta tggntatttc ttgattatgt 300
gctgaagaag gggtgggtta ttcatacctt ccctttttaa aatcatatag ggtaccttnc 360
tggcattgcc atggcatttg taaactgtca ccggtgcttg gtgaaaagtc nacanttgag 420

ggccaaccca aggncactct nattggccat ctttgggttt tggtgggatt cttacccngn 480
tttntttact gcaagctggt tttatcatca aggnctttat ganctgnatc ttgggctgan 540
ctccgatctc aatctgncat cttaaaacgn ctnactgtct nggatngtaa ccccaatagg 600
tctnaaacct tantttaccc caacttctat ttcaagatgg aatttgctct tgggttcaaa 660
atgccctntt gacaagcanc cagtnaacct nttcancata cccacttgga ntttcaancc 720
tggggtggac aaaaaccaat taccccctntt tttaaaaaaa aaaaaaannn nnnnnnaaan 780
na 782

<210> 5028
<211> 806
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(806)
<223> n = A,T,C or G

<400> 5028
gnnnttnnnn tttttaangg ctttggcttg tcntcttagg atcccatcga ttcgaattcg 60
gcacgagtga acttgttcat tttgttttgn ttgggaggaa aataaacaat tttacttttt 120
tcctttagga gcattatgag cattatgtca gaatagaata gaattggggt tcgatcttaa 180
caggccagaa atgcctgggt ttttttggtt tgtttttgtt tttgtttttt tatcaaatcc 240
tgcctgactg tctgcttgtt ttgcctacca tcgtgacatc tncatggctg tccaccttgt 300
cgggtagctt atcagactga tgttgactgg tgaatctcat gggacaccaa tcnaanggct 360
gctgacattt tgggatcttt cantntganc attcanatcc aaggtctcan ttaaacattc 420
ccngcatcat tgnttataat cngaaactct gggccttctg tctggnggcc ttaaaagctt 480
ttgggccata atgcaacaat tattgaagga ggatttttatt ggagaaatgg gggataggcc 540
ttcatggacc ccccaattaa ttaaaggaaa aactnaactg cantgggggg gttttgnaaa 600
aagggtattt antaccttct ttaaacnaat tcctttttttt tttcanggga cctttttcta 660
agcctggnat tgnaccgggt aaccnttgga acccttttctt tttggaaaaa aaccattttt 720
ccccnaaaaa agggcccccc aatttttttaa aaaatgggaa tttaaccntt tttaancccn 780
aaccnttaaa antttttttt ttttnn 806

<210> 5029
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

<400> 5029
tgntnttcta atgctggnnn ctcttgttct ttttgcagga tcccatcgat tcgaattcgg 60
cacgagggac tcagagcctg ggaaggaggc cgctatgcag ggtagcactg ggaacaggag 120
acccacctga ggctcagccc tagccctcag cccacctggg gagtttacta cctggggacc 180
ccccttgccc atgcctccag ctacaaaaca attcaattgc ttttttttttt ggtccaaaat 240
aaaacctcag ctagctctgc caatgtcaaa aaaaaaaaaa aaaaaaaact cgaggcctct 300
agaactatag tgagtcgtat tacgtagatc cagacatgat aagatacatt gatgagtttg 360
gacaaaccac aactagaatg cagtgaaaaa aatgctttat ttgtgaaatt tgtgatgcta 420
ttgctttatt tgtaaccatt ataagctgca ataaacaagt taacaacaac aattgcattc 480
attttatgtt tcaggttcag ggggaggtgt gggaggtttt ttaattcgcg gccgcggcgc 540
caatgcattg ggcccggtac ccagcttttg ttccctttag tgagggttaa ttgcgcgctt 600
ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgg tatccgtcac aattccacac 660

aacatacgag ccgggagcat aaagtgtaaa gcctggggtg cctaatgagt gancta 716

<210> 5030
<211> 1206
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1206)
<223> n = A,T,C or G

<400> 5030
nggggncgat ttttcnaaaa aatntccccn ggngaacggg gncaccttgg gggncancnc 60
cangaaccnn ttttgcnaaa aaccccnttt ggcncnaana nnacccnngn nnancgcnct 120
accnacncga ancennncnc acnccanngg ganccnanac accgcncntc nntntaccan 180
actanatcnc ncntaaacna cacnaancng cacnnacanc acccaccgta tggtaaccnn 240
nccangcacg agcacancac nncnaanagc ncgccactaa cggggcggga cnacncgata 300
canannnacc nagnaancnn acaacanacn ctacacncga cnaacaancn nccagntncn 360
aanccgccag acncccccann tcangnacaa cncccnccac accacccaga nnagaccacn 420
tccccnnnca ccacccnaac nannnaaacn accctncatc angaaccncc caannncnnc 480
cnacncaccc nacnnccccc cannccacng ncnanccnaa nagacaccca cccccacacc 540
ctncncncna anaacacntn acaccaccan ancacaacaa naaccntncn ccannacncn 600
nanannnnnc cacacnnccc nancccnctn nccaanccac accncncnnc nccnacncna 660
ancacncccn anctncactc nacancanca cnanccccaa tancacacca nccaccacca 720
aannccactc acacncanac tatacagcng acnnnaanca cctcanancc nnnccncenn 780
cnacnnectc ncnccaccca nancnacaga ctcanctncc agcanncacc nncgcccnnc 840
tnnctcnnnn acancacnca tnagcanccc ncancgnnca caccncacca ccnnacancc 900
aatncccacc cacatccnnc cncncctcct atancaancn cccaanccga ccgactncan 960
ctngctcacg canacatcnc gncgcncntn cnacactanc nacncncacc tnactctnac 1020
natcgcancc atcgntccnc ncnnancaca nncnnannng annatncnnc cctccacata 1080
ccactacanc atnacngcnn ccnnnatcnn nacatcnacg ccaancncca cacgaaccnc 1140
acgcntaacc atcacgacna ccccaccacg acnngctaan cgacnacnct atccaagcnc 1200
tncgcc 1206

<210> 5031
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 5031
gagnnggnnn ttnngnnagn nnnnnnggnn nnttnnaaag ncagctcttg ttctttttgc 60
aggatcccat cgattcgcga gttttttttt ttttttttt tatatatact gcaattttat 120
ttcaatcgca caaacgaagt tagcatgtag gaaacttaaa tgaaacaaat ttaaacgaaa 180
tagttacggt aaaaatagca gaaaactgaa aattctaaaa aggaagtaca cctaaaagca 240
tgagaattca acattcatta gtgtttcatc ttcagttttg attgacactt gatgcttgca 300
aatttttaaa caaactttta aatcatgatg actattctga agagatttca gcaccagcac 360
taagatttgt acattcagtt tgtttgcaat tgacttgtga gccatttaca tagtggatag 420
tacagacttg tcacaggtca gatcacagtg ttgaggaaag cagtgccttc ctgtcattag 480
aaaggatccc ctaaactgtc tcagcttaag acatccaacg tacaagagca caaaaccatc 540
ataataatgt ggttccaagg aacgtggttt tgataaggta aataacttag gcttctgttt 600

cccattttaa ttctgaaatc tctaataatg acacaactgt catgtatgat agcaaatgta 660
tataataatt cattcagact tcttggaaag aacatttagc caatctggga tgatgggaaa 720
tntagcatga ttcaacactg ggtttttttt 750

<210> 5032
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 5032
gtntttnaat ttccaactct tgtctttgcg gaccctcgat tcgaattcgg cacgagggtg 60
ggtcctggct tccctaaaga taattggaag acttcattgg attgatagag agaaactgcg 120
taatttcatt ttagcatgtc aagatgaaga aacgggggga tttgcagaca ggccaggaga 180
taaggtatga aaaggatcca ccatatctta tttggaattg ctggattgca cttttgggag 240
aagaacagat taaacctgtt aatcctgctt ttgcatgcct gaagaagtgc ttcagagagt 300
gaatgttcag cctgagctag tgagctagat tcattgaatt gaaagttgca tagtatagtt 360
ttgccatttt aacatttctg natttgaaag tgcttatccg aatctaaaag tgactactgg 420
taatattttg natattgggt taaattaatt ttaataaatt atataattat acatattgga 480
aagcctctta gaactatagt gagtccgtat taccgtanaa tccnggacat ggattaggat 540
accattggat gaagttttgg accaaacccc caacctngga atgccaatgg aaaaaaaaat 600
ggcttttaat tttgnggaaa attttggggа aggcctattg cctttnaatt tggtaaaccc 660
ntttttttaan cctggccaat ttaaacccaa ggtttnaacc aanccaancc naatttggcc 720
atttncaatt tttaaagggt tttccaaggg ttccangggg ggaaaggttt tttgggaaag 780
ggtttttttt naaaatttcn ccggggcccc cngggngccc 820

<210> 5033
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

<400> 5033
nnctngnngt tctaatgctt ggngnncntg ntcgctggat nggatcntnt cgttgccttg 60
tnnactnggc nngacnngnn tctgcncngc cgttgannca cgnnntantn cnccaaangt 120
anatgatgtg gtatctnatg tcncnatcna ngnttngaan aaccaaaatg ncctnacntc 180
gnaganaccn tgtcncnant nggnnatncn caattnntcc aggcntgann nnccntgcct 240
gnncnncnag ntacncanta ggcctaagca gganactnnt ttntacccan nangtgtagg 300
nnnnggtgac ccnanatcnn gctnctgnac tcnggnctgc gtgacatagc tagactctgt 360
ctnanantca agccctcaaa gctngaacgt nttatacana ccctgtgtna attcngangt 420
gaaacgctgn tgcctactgn aaatggggat ttgggttagc gatnanatag gctaaatcac 480
nttntnatac gtgatcctng ngtananttc tgcccgaatn ggtngtacgc ntatannaan 540
atanttcntt gttngatanc atcttcctac cntananttt ctngaaaaan aaagtttggn 600
ttttgacnan cactnncacn atggnnttng gttgggtgcc tgcttgcttg gtttgnaatt 660
tnnagccccn taanaanact tnttnngngt nctggaatan ccgtnnnatt ccnngacatc 720
atttntagcn tcnttgtntt naantggggg nnannaccna nttgttttna attcngantn 780
aangaaaaat gcccntnttt nncgaaatnt ttttgtggnc ctttnc 826

<210> 5034
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

<400> 5034
nnctngnngt tctaatgctt ggngnncntg ntcgctggat nggatcntnt cgttgccttg 60
tnnactnggc nngacnngnn tctgcncngc cgttgannca cgnnntantn cnccaaangt 120
anatgatgtg gtatctnatg tcncnatcna ngnttngaan aaccaaaatg ncctnacntc 180
gnaganaccn tgtcncnant nggnnatncn caattnntcc aggcntgann nnccntgcct 240
gnncnncnag ntacncanta ggcctaagca gganactnnt ttntacccan nangtgtagg 300
nnnnggtgac ccnanatcnn gctnctgnac tcnggnctgc gtgacatagc tagactctgt 360
ctnanantca agccctcaaa gctngaacgt nttatacana ccctgtgtna attcngangt 420
gaaacgctgn tgcctactgn aaatggggat ttgggttagc gatnanatag gctaaatcac 480
nttntnatac gtgatcctng ngtananttc tgcccgaatn ggtngtacgc ntatannaan 540
atanttcntt gttngatanc atcttcctac cntananttt ctngaaaaan aaagtttggn 600
ttttgacnan cactnncacn atggnnttng gttgggtgcc tgcttgcttg gtttgnaatt 660
tnnagccccn taanaanact tnttnngngt nctggaatan ccgtnnnatt ccnngacatc 720
atttntagcn tcnttgtntt naantggggg nnannaccna nttgttttna attcngantn 780
aangaaaaat gcccntnttt nncgaaatnt ttttgtggnc ctttnc 826

<210> 5035
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

<400> 5035
gnnnnnnnan atcagctcct tgttcttttt gcaggcagga tatccnacgc taattctgca 60
cgcacgaggc taaggttaca nnagnatgng ttnccttgat nacaggtcac tctcncaaga 120
tgcgctnnct gcagtcagnt gcataactng tnaaannacc nganatagna ccanctttat 180
atggtatgac agtgtnnnca gtgggagcaa nggtggtcca tagcctgcct atnatatcac 240
cnatatctgt gaacacactc atngcagant cagggncagc natctgntna atggacttgn 300
attatgtntg naccntngct tnctgtngac ncngnntgag cgcaactttc cttanggacc 360
ttanggnacc nnnntnaacn tactttncan atgatggnnn ttntgtcaat cccggatngn 420
tncacggtnn cnnatggcna aagncncnac ctttatntna cacgttgaca ttactttacg 480
acnctagtca cactnttgga ctccattgtc cacatncctg ntntatgana acnttaaggt 540
tttactttac aanannntnna ccntggcntt ncaaatgatn nnccctgcng acctttcatt 600
ngcaagggnc ctanactttt tgcatngaaa aattttaggt aaagttgctt ttccgctttt 660
agngcccttt cctaggggta ttaatttggg tggggntcct tnccttntac tttccccttg 720
gccccgnttt ttcnccnttn nggaaanccc ccccccttaat tnnnccccng tgnttttncc 780
cccncccnca aaacccnggc aaaattaaag gggggggaaa attgcccccc tnntttaaag 840
cccgaagg 848

<210> 5036
<211> 715
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

<400> 5036
ngnnnnttna aanatacagc tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agggctatta aaaatgtaat cagtgtgaaa attcatgcca tctgaatcgt acgagtatgt 120
aagggatttg agttccttac agaattttct gtaatttagt acttcaagtg acttataaat 180
gtatatactt ctctctcaca aaagtgttag gagaaggaaa atcttaaata ctagcttgat 240
ttcttaattt aataacaaaa aacaattctc ataacatgta tcacctaaca tgtcactttc 300
actttaaaag tctaaagagt tgaggtttat ttcttttctt ttaaagttga tgtttatgtt 360
ggtgatttcg aaaagatcag atcccccgtt atgaaggatc ttaaccttgt cttttagatc 420
tccatgagaa atgcagtaca tgtagcatta gccatatttc ttttttagag gcctatgtag 480
gatatttata acctgtaaaa gtttgatgac ttcatgctca ggagaaagca agtaattacc 540
tagccaagcc aggtgggtgt tcaggttagt ggtaaacaga aaggagatgt tgaaagattt 600
catatctaaa gggtaaaaac acaagagaag tatatagaga taaacatgta aagtataaga 660
ctgntacata gtaagctcct ncgaagtggc agccattggt attatttttc tgcng 715

<210> 5037
<211> 758
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(758)
<223> n = A,T,C or G

<400> 5037
tgtttttgat cnagnnctct tgttcttttt gcaggatccc atcgattcgc ggcggtgtcg 60
gcagctgctg tagcgaagag agtttggcgc gatgtctcac accattttgc tggtacagcc 120
taccaagagg ccagaaggca gaacttatgc tgactacgaa tctgtgaatg aatgcatgga 180
aggtgtttgt aaaatgtatg aagaacatct gaaaagaatg aatcccaaca gtccctctat 240
cacatatgac atcagtcagt tgtttgattt catcgatgat ctggcagacc tcagctgcct 300
ggtttaccga gctgataccc agacatacca gccttataac aaagactgga ttaaagagaa 360
gatctacgtg ctccttcgtc ggcaggccca acaggctggg aaataattgt gttggaagca 420
ctgggggggt tggggtgggc ttggaacaca ggtgtgtaca gcgtgctgta atggaaagtt 480
ttgnatcata gtaatcctgt ttccactttg gtatctctac ccagattgac tgtattagat 540
gaaatgtgan gatcttggtc aatcggaaac cccgtacctc ctctttnctt tctctttctt 600
tnnttttttac ttaacatttt atgatgattt anatggaagt ggtctttngn acttaatgtn 660
ggttccagnc ctttaactgg tcaaaattta ctttttacan tnacattctn aacctttttt 720
aaanaagggg ntgggggggtg gnaaatgcnn nttaaccc 758

<210> 5038
<211> 1278
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1278)
<223> n = A,T,C or G

<400> 5038
tnttggaang tgtagncttt tttttgggaa aaaaaanccc ccnttttttt ngggggggaa 60
naggtntncg gggnntnttn atancnaata cncnattttt tgaanaaaan naccccttnt 120
cangggnaca aatatnctaa attnacatct acatnnnaan caaattatnt ncatcnnatn 180
ggacncatan tcgacacacc attttntnnt ancacacgtn naacatacat ntccaccacn 240
ntnaanatac ctctctctcc anttnncann cacncncctt ctnntaatac antacancnn 300
gaaccccctn tcgngggccc natntatatn anaaancacn ctacccatan atcacacnnt 360
ataatnatca tncnncatac ncannctcnn annccaaatg atgcaatnan naccacanac 420
tncnntcaat cccnccanaa tnttacnccn ananccnngn ttannncanc atacncaanc 480
cacnaccana tncntcncnn nacnnnncnc ncnannannn ccancacnnn nannnnnnna 540
aannacannn nannnannca tncttctnaa tatancnacn anaannnnnc anacnacaac 600
cactcnngac tcttaaactn cntananaca ctncantnnc cccaagacac annntncnnta 660
agatggacna cctnntaaac atcnacacct agatcnatnn nngnccccaa nctanaactn 720
tcaatccntc cagcnaactt caactnnnac nacctnanna aaatctncgc acacnccnat 780
nncacctnac ntannnaann tacacccntn ctatnanata ctcacannnn tcncntntta 840
tatcaanntn ttntcantaa aaaccacgtt naatatcacc naactcncnt atntcnaata 900
agtacgctca cactanacan acatatatat ctacantttt cncnnacnca acanctatng 960
cnacaggant cnncaccngt anaacacctc actatcaaaa tngcnancgt atcacnacng 1020
cnannagcca tnccntacga cntntgncaa atcgaacncn ntntaacaan anatnanatc 1080
tnctnnacat cacaantcta tatctanana ctacnngnga gggcanaaac acattcccac 1140
nnnctanntg tcnccacnat aaccgnaatc nccnnaaaca catggnaana tccccactan 1200
tcgnatccca cncttcaaca cnaagancnt accacnntac gtanacnaan gancttgggg 1260
tnnaaanata cttncccc 1278

<210> 5039
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 5039
ngnnnntttt nnaanaccct nnctacttgt tcttttgcag gatccatcga ttcgtttttt 60
ttttttttt tgactcttga gtggatttta tttttgcact ccaggatgca gtgaagacgg 120
tggaaggttc atcttcacac cgagggccct cagtgtcgag gtgactcccg gcctgaggag 180
ggctgaggca tcctgaattt tgagagttcg aggttgaggt ctaanaaggt gtacgtgctg 240
taagtcatga tgctgcaggt tcttgtaggt agtgttgtca aacggctcaa caggcactgg 300
ggctggctcc tgtgtgccgc ctcggtcgtc ccctgcgcng ntgcatcttn catgggctcg 360
ccctnggcct aanctttaac gctgctggct tttcatggaa acccngggta tttttcaaaa 420
gaactggctt cnaattgctt ggtggnatct gatctttcac gaatggctgt ncaccttcaa 480
gtgggcttct attcctgcgt cctgaggttt ccttttntggg caagggaagg ggcccccttg 540
cncttgggct tttggcaccg ggtttttnca natgcccctt ttgncggccc caagaagaac 600
ttggctttgc aacttgnccc ttntggttnt tggnccttttt tttggccaac acaaacaagg 660
ccncctggg ctttgccctt tcgggnggggc nccaaaacaa ancctgaat ttttgtggtg 720
ggacaagggt naangggtcc cctttnaacc tttcaaaaan gggctttttg ggcttttcct 780
tttaaccnaa tttcna 796

<210> 5040
<211> 1308
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1308)
<223> n = A,T,C or G

<400> 5040
ggcttnaaac ctttgaacnc gcttattcng cggtccancn ttngncgngn tacgngtang 60
gctgngnnta ggcnttncat tgcgangcng nncccnnngn gnnncnnngt tganccnnng 120
ngncngtntg gntnagngnc tacnaacttn gaancganca gnnnnnggcn ttntgggccg 180
ccactgccnc gaggnntcca nncnctagtc acccnnggng tacccttagc nncncttggn 240
tcctctngca ccnnntcnta gaaaatnccc nncnnnannn gncttcttna gtgggtaann 300
tccngttnnt tccccccnnt ggggnncttt tngtgcgcac atngcatcat tacctntngn 360
nnagtccnta cactnatann tctggnnccn naannancgt atcgtnctnt agttnctntt 420
gtgtcgnncn tagnnanngn tntanacgca tncnttgnnn natgannent nctcnngttn 480
atctctcatg tngcnctcnn agcnnacgct ctctatnngt ananncatct cganatcncg 540
cantntaata tnacggnana tcgntcntnn anntattnta nntncangca cttcntatgt 600
atatnagntg cgtancgtnn gannantnac antgcgacta tancatcngg atagtncttn 660
acntcnnana tcctctgcna tangtncnat actcngtata ngncnctcta tatntaacan 720
agngtangtc tntgcgtacc tcncnngnan tctannentn gggtattcat natnncaccn 780
tntagtnaac nttacncgnt gattnatnta nccnnattcg tgtnananga canannenct 840
natncaangn nntacgtatn gcacatanct atgantnncc tagatngntc gctcaactat 900
cggcaanctc tncataagnt gtannttnan antnatgtag tctncctgtn ntngaccgct 960
atntnnntcg tanctacncn atccacnnaa gananntntt ngtngnntnn ntatngctca 1020
aanntnggtg ttctnaatcc cccntctcnt ttntntgnan agtntgcnan agttantcgg 1080
nngngtagcg nntntacccc tatnggagag gnttctnant tatgcgacat cnccannnga 1140
nnngnnaann acggcngggn gnttcctctc tggatntatn ctcntanctc tngcacgnnc 1200
nnggctttnt canatnaaat accntgacnt ntnggtgann cattngnnac naangcgctg 1260
tgagatagnn cccnntagat aagtctatct gtatgctnnc nccanccc 1308

<210> 5041
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

<400> 5041
gnnnttnnaa nnccnnggtt ttaganaggg cngcaggttc cccanacaan ctcnntgcaa 60
gancggtagc attcattacc tgtttattct ctgctgcatc ttacagaaga gtaaactggt 120
gagagtttat atgggtatat atatatatat atatnanatg tatatatata tatatngact 180
tgctacatga agatgtaaaa atcggttntt aaaggngatg taaatagaga tttcctnaat 240
gaaaaanaca tatngagaat tgntctaatg caacagaaaa gccnnngaat ctctaaggnt 300
cctgtatatt ccatgtataa gtgnaaatat aancagacag ggntaaaagt ggtgcatgta 360
tgtanacagt tgcaagtctg gacaaatgta tanantaaac cttnnattta agntgggata 420
acctgctgca tgaaaagtgc atgggggacc ctgtgcatct gngcataatg gcaaanngnc 480
ttanaagggc cgancggaag atcnatncng acntgacngt tganatgtca ggagctgacg 540
acgaggggat acagcgggng anagaatggg catcganacc aaggggctna nagaagnttc 600
caatgggcgc cacctttaaa nntgnngatt nacacaactc cntncaggga atnggngtnn 660
ncccanncng acnttattcc cagagtgtcc cagtattagc aatactggga atataggcac 720
antaccaatc atantnagaa anntgggggg tnaccccaac ccaaatttga ngcgan 776

<210> 5042
<211> 1105
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1105)
<223> n = A,T,C or G

<400> 5042
gggggncggn natnaanngn tnggaaactn atcncangat agcgcnggat tcngantggn 60
ttcgaaaacn ctncntnncg atttnaaata aaatnttttt cntntttccn ctgagganca 120
tnttgaaggg nccagnngnn aaanaaataa gnatnnnggg ntcaaatcct ancaggctca 180
naaatgcctg nggttnnnnt nggttcnttn tngctntccn ctcnnatatc anatcctgcc 240
ntgacntgnn nnnctcntnn ntcgcctnnc catcnntgac atcncncatg gcatgtanca 300
accntnncnn gntannnntt aaacnacact tgnattgtct gnantgttng aaatnnaaca 360
atngcaaccn cccantnnna nngggcnngn ccagnncaan acttggnann cttntcanna 420
tnatccnntn ccntnntncc cncatngtta ntcacttgta taacatttca nnncncganc 480
tttatatntg nnttnttgnn anngnntann tancntcncn ngnanccann tagagatnnt 540
ggtgcngnnc tnccataaaa nggtnctatt tgctnncacn ntacatcagc ctanctctna 600
atntttagta caggcnacgg gaatatttcc ncnnggngga caaaatattc gcgngganat 660
nagnttnttt tngnncngng taccccatcc cgannattat actnntnnat angngatnta 720
aactctataa agtcnatgtc ananntantn aggngagtct nncntgnaaa anaaangnng 780
ctcatgatct ctcnntatnt atnnnatcnc tccnanncta caatctntan ccanttnacg 840
ngcnnnatta nnngngggnc anattncacg tgtccntcta agncccntgt gtctananac 900
nganncntng nantcaancg cnanagngcg acacnccgat actaantntg nacttccata 960
ccaattantn atgtntcatn ncccgacatt aatnagggtc nnaatttnta naatcaatgt 1020
ctnnncacna natcngncgt attccaagnt natatntntn aagnnaccnc tctagcncnn 1080
ananncactt tnngtcgtnt angcc 1105

<210> 5043
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 5043
gtctaangna ncagctactn gttctttttg caggatccca tcgattcgaa tncggcacga 60
gcttccttgt ataatactga tcattctatt ttagcggtaa gaacccaaga aggagtatgg 120
atacctgtaa agctttctgg tccttgggaa gcctctcctt ctgtgcatat tattactgaa 180
attcttcaaa agattctgag atgctctcag tgtttcattg ctactttaat tttaatcatt 240
atgggattga ttgctgtcac agctactgcc gcggcanctg gagttgcttt gcatttcaca 300
gtncaaacag cagactatgt aaataattgg cagaaaaatt ctactttgct gtggaattcc 360
caaactaata tggaccagaa actagctaat caaatcaatt atctncaaca aactgtaatg 420
tggctaggag attgagtagt tagtctagaa tatagaatgc anttacaatg tgattggaat 480
acttctgatt tttgcattac tcctcatctg tataatgaaa gacagcatga gtgggaaaga 540
gttaagaaac atttgaaagg tcatactgga aattnacttt agatattatg caactgaagg 600
aacaaatatt tcaatcttct ctggcacatc tgacactaat gccaggaact gaagtgcttg 660
aaggcgcttc anatggataa cagctattac ccattaaaat ggatcaggac caannaaann 720
aaaaaaactc cgagccttta aactttgngg agtcnnttc 759

<210> 5044
<211> 1444
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1444)
<223> n = A,T,C or G

<400> 5044

ctctcncnnc nnnncnnntc tctnncnntn nnnnntnntn nnnctcnnnn cnnnatctnn 60
nnncnnctnn nnnnncntnn cntccntctc ttntntngct ctcntntctc ntncatcttn 120
ccnctattnt cntnntnntc nntcntcnnn antnctnnnt tctncctnnc canctntcca 180
tnntntactn tcnntnntct ggctnttnta tntggggggt ctatttnttn ncttaaatcg 240
actngttcca agtctcntan cngcntctnt ctnnctntct ntgcnctncn ctggggcntt 300
aattncccnn gctnttatan aagngngnaa ttaaggtntc nnntctanng ctntgcaagg 360
ctaatgntta gatccngnta gaanncgnta catgttggga acngacanct tnctgcncaa 420
agngggctna ggcanngnnn tntgcaaann ctcnnntntc nnancttgnn tcncgtagan 480
cggnnncccc tgaattttnn ancnngganc nttaaatnnt ntngnggtac gannccncnn 540
ncgnnnnnnc gnntannccn canngttaan tgcncccnna nnnantcaac tctntnntcc 600
tnntnnaacn nnnttantct annatnntta cnnntnagnt tttcctcnct nacnnctctg 660
tncttnttnn atcttntnct tctcncttna tttntatctc ntntntntnc tnccctnatc 720
tatctnctac nctctnttcc ncttctccct nncntctctc atcatatccc acgcnactna 780
nccccctctnn ctcttacctn nntnctctcn tcntatctcn nnaccctctt tctntntctt 840
atnncnccta tcctctactt attctcctcc tattntncca ctcacccttc ntntntctnc 900
nctnntcttn tnctatttnt actntcncta ttcctncntc tctnntgnct cccacccccc 960
cttcctctcn ctctcctnnn nnnactactc tcaccntctc nnctntcnct ctacnnntnn 1020
ananntcctt antttcctnc tcatcacant actcttccct ctcatnntca nanctaantt 1080
ntnctctcac tctaccactc tntnctccac tcatatnana cttctatant nctaatccta 1140
tcttcttaaa cntctcctct tatcnctcta anctcctctt cntcgctanc tccnntncaa 1200
ctcgnaaatc tctccaatnc tnccccactc taaaaatnnc ncntcngant cccacttttc 1260
ngngcanaat nnaacncnan tccnctccct ttagctatct ctctanaaac cccntttctc 1320
aacaggnacc nccctntntc tcnaaatcct catnctncta ctttatatnt cnccaagcct 1380
cncctntgta anagcatctc nctntccncc aatnnanatc tccctnctcc natanatntn 1440
anat 1444

<210> 5045
<211> 1027
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1027)
<223> n = A,T,C or G

<400> 5045

agngnttcct tccccccttt atttngaaaa annggcgccc tnnttcnana attggccact 60
ttttcctggt ccnnggggaa tnccccaata cgcatntncg gnaaatgtgn cgggtcnacc 120
gatagtccca aaacctctgg ggccattgca aaaaggggnc cccangggnc gntcttacaa 180
ngnatttntn ttttataccc tnnntnggng gacannctgc cagntctaat cnaancgggt 240
gngattattn gggggnngnc acccttnngn cncnnataat atatnnnggc tccncatgtg 300
anggcncccn ccatangnag tntatncncc tcactataat tatcntantc anncgcaaca 360
antntatacn ngtngtatac nttgaatnaa gaatnccact nntatgctac gantatnnnn 420
ntngtcnnnn ngntgntntn nnctnaantc nntnactact tctncntgna cnanntannt 480
cgnacntnca cnncctncnc tanatntgnt anttnanntc nnnnnctcnc tngnnnntcn 540
tnacnngacn tanntnnatn gnnanntaan anactnannn taannannnc nnnnntnttt 600
cntnnttcta cgnctncnta ncncnnacnc nnnntcnntn nctanactct nttnnnannn 660

nntantnnnt cncnnaccnc tgatntattn cctcantatn nntnnttcnt nntnnnnntn 720
ncgctnnacc atacnannac nacatnnnan nnctgatntc ncnntanntc ctncnnccat 780
tcnncatgnc ntntnnntat cctctcanan naanatntnt nnntgannta cgntgtatgt 840
ctnnctcncg annataccnc atcntnncta ctagatacca cnannnctnt acnntnncac 900
ntntcnatat nnantatant ctnctacntc ancnanctct ngntntatct gangacacat 960
atntcnngat nacactgntc caantnaact cnagnnnnac canggtcatc gacnctatnc 1020
ncncccc 1027

<210> 5046
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 5046
ncntntttcc tctcnaatcg nttggtgttc tttntgcagg atcccatcga ttcgggtcta 60
cagtatgtag aagcagcaag ttagtattaa tgatgatggt accttgtttg atggtcgacc 120
aatagagtct ctgtccctga tagatgccgt aatgcctgat gtagtacaaa caagacaaca 180
agcttataga gataagcttg cacagcaaca ggcagcagct gctgcagctg ccgcagctgc 240
agccagccaa caaggatctg caaaaaatgg agaaaacaca gcaaatgggg aggagaatgg 300
agcacatact atagcaaata atcatactga tatgatggaa gtggatgggg atgttgaaat 360
ccctcctaat aaagctgttg tgttgcgggg ccatgaatct gaagttttta tctgtgcctg 420
gaaccctgtt agtgatctcc tagcatcagg gtctggagac tcaacagcaa gaatatggaa 480
tcttagtgag aacagcacca gtggctctac acagttagta cttagacatt gtatacgaga 540
aggagggcaa gatgttccaa gcaacaagga tgtcacatct ctagattgga atagtgaagg 600
tacacttcta caactggttc ctatgatggg tttgccagaa tatggactaa agatggtacc 660
ttgctagcac cttagggcag cataaaggcc ctatattgca ttaaaatgga atacgaaagg 720
aaattcatnc taaatgctgg attnacaa 748

<210> 5047
<211> 825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(825)
<223> n = A,T,C or G

<400> 5047
gnnnnnnnnn ttttnaaagn ccagctcttg ttctttntgc aggatccctc gattcgaatt 60
cggcacgagc agaaaagtta ctgcagctta aacaggaaaa cccttcttgt tcaggactgt 120
catagccaca gtttgcaaaa agtgcagcta ttgattaatg caatgtagtg tcaattagat 180
gtacattcct ggnggtcttt tatctggtgg tagctttgtc tttttctttt tcttttcatt 240
acatcagggt atattgccct ggaaaattgn gggtagtggt acccaggaaa taaaaaaatt 300
aagggaattt ttaacttttc aatatttgng tagttcaagt tttctacatt ttaagtncca 360
gaaactttta caaaaatgcc agtttcgaaa ggtgtttcct tgnggaagtt naccaagtta 420
aaggaagatc attgggtaaa ttactatttt tggnatggaa attttgctna aagttnactg 480
gtaaaggaaa cacctgctga ctttgcaagt ttaangggga atctattctt cccattttcc 540
aaacccatgg atatggaatg gggcccctga ccatgtggga agaggaattg gataatttgg 600
ggtggtttgc natggggtgg ttttagatna attgggattg gggtatttta aaattaacca 660
tttggnggaa nttnaatagg cctttnaaga atanccnttn aaaatggnaa aaaaaaatct 720

tcnaaaaatt tccaaaaaaa aaannnnnaa aaaacctcna nggnccttttt aaaacttntt 780
nnggaagtcc nnatttacct nnnaatnccc gaccntggat naaga 825

<210> 5048
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 5048
cnaatgctgg tngctngttc tttttgcagg atcccatcga ttcggggcta gcctgcacgc 60
acgccaagat ggagctccag gctagcccac agaacagccc agccgcagcc gtcctaccag 120
accagcacct tgtaaccaca gtctaaccca gcgggcacca ggcggtgaga cctcctgccg 180
ctgccagccc aggatagccc ccttgcctct tgcccaaggc tcaggctacc ccttgaggcg 240
tctggaggac actaggcttg acctggggag tggcatgatg gggggcaggg tccgaggcaa 300
cggagaaggc agaagtgact tagattgtga gtgccacggg gctgaggcct gcgccgacct 360
ggtctgctgg tgctaccagg cttgaacagt cttcaaatcc actgctatta ggcaaattac 420
ctggctcccg ctgaactcca gcacctagaa ctatgtcaca ctcgtagtag gccgctgcat 480
tggttgaaca aatgattttg aaagaatgaa tgtcttcctc tgtgcctgca tttcctcaga 540
aggctgtaac aaagattaaa taggaaaatt cgtggaaagt tcaaaaaaaa aaannnnnct 600
aanantcatn nnannnnang agnntnaaaa aaaaaaaact cgagcctnta aanctntagg 660
gagncgtatt acgtanatcc agacatgata ngatncattg atgagtt 707

<210> 5049
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 5049
ngnttttaaa tcagctctng tcttttgcag gatccctcga ttcgaattcg gcacgagaga 60
acacaggtgt cgtgaaaact acccctaaaa gccaaaatgg gaaaggaaaa gactcatatc 120
aacattgtcg tcattggaca cgtagattcg ggcaagtcca ccactactgg ccatctgatc 180
tataaatgcg gtggcatcga caaaagaacc attgaaaaat ttgagaagga ggctgctgag 240
atgggaaagg gctccttcaa gtatgcctgg gtcttggata aactgaaagc tgagcgtgaa 300
cgtggtatca ccattgatat ctccttgtgg aaatttgaga ccancaagta ctatgtgact 360
atcattgatg ccccaggaca cagagacttt atcaaaaaca tgattacagg gacatctcag 420
gctgactgtg ctgtcctgat tgttgctgct ggtgttggtg aatttgaagc tggtatctcc 480
aagaatgggc agacccgana gcatgccctt ctggcttaca cactgggtgt gaaacaacta 540
attgtcggtg ttaacaaaat ggattccact gagccaccct acagccagaa gagatatgaa 600
ggaaattgtt aaaggaagtc agcacttaca ttaagaaaat tgggcttcaa ccccgacaca 660
gtancatttg ngccaatttc tgggtggaat ggtgacacat gctggagcca agtgctaaca 720
ttgccttggt tcaanggatg gaaagtcccc ntaaggatgg ca 762

<210> 5050
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 5050
tgcttgctct tgttctttat gcaggatcct anctcccnnt ccnggnagga gganacagtt 60
actgactntc ccgcagacgt ggtgctcttt gaagggatcc tggggcagaa tgaggtggac 120
tatnnccaga agcaggtggt catcctgagc cangatagct tctaccgtgt ccttacctnc 180
nagcataagg cctaagccct gaanggccng nncaactntn accacccnga tnnctntgnc 240
natgaactnn ttctnantnc actnanagna atnactgatn gnanagnngt gcngatnccn 300
gtgtatgact atgnctcnca ttnccagnan gtnccgatan ctntccctga tganacnnnt 360
tgagganaca gatncggaca cccgggtctn acgcaaanta ttaanggaca tcagcganag 420
atgcagggat cgttgaacac tataacatcg tcacttcatt anatnncntc aagcntgcct 480
ttanangant tctcctntgn caacaacaga tncctggctt ntanaggatc ntnncatnga 540
ggttcncaat agatactnng tnggacaaac ancctnatnt gtgcaattnn attccntnga 600
ccatccnttt aatgggaaag ggncnttnna aacggggnaa acccaattng ttgncctaaa 660
aggggnataa aacccntttt naaacnaggn ntgtangnnc ttcanaactt gnnannaatt 720
atggccccca ttttaaccct ttaatggctt ttngtccccc g 761

<210> 5051
<211> 847
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G

<400> 5051
nngtctatag ctggctctcg ctnttgtgct gatcncatga ncccatnnan nnnantnngn 60
cccgntgagg nctntnattt gcaccatgtt cgagtnangg tcctttccta aacatgntnt 120
aaaaatatan atncgatggc ttatttaaaa tgtccctatg catggngaaa tgntaaatac 180
cangtggatg antggttctn nnntatattg tgaatggaga attatncaca atgcatctat 240
atgtgtanac taataatgta naatatgctc ncttntnctg ntctgtgnan aatgtgctct 300
aaaatnccct gntngtgggt agcatgggct ggacagnnat tgattttcag aaaaatgctt 360
ggcttttggg ttnttggcaa tagggaagcc tgcngcaaat tatctcattt gncaaanaaa 420
anttattttn ancctatttg aatgtatgct atcttcanta cgcttccatc ttatgatnna 480
aggnntntcn natttctant ccaagacttc gngcntanac tgtcncagtn gggcatttga 540
tgncttgtca ccagtggaaa cctgaacgga aaggggctnn aggaccnacc ttattcctta 600
aggcccctgg agaaaaaccc gttnanttgg gctccttaga actngctngc nggggaaacc 660
tggaaaaccc ttgcccctng tttttaaagg gggngnncct tgggtttccc attngggngn 720
ctttaaanaa attttggggg ccccnaccna aaatttggcc ccggggattn cnnctanntn 780
ggctngccct tttaantcct taanttaaaa aggnccctta caattttggg canttggggg 840
gnnaaaa 847

<210> 5052
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(747)
<223> n = A,T,C or G

<400> 5052
agagnnnnnn nttttnncta atggctgggg atagtctggn ctttttncag gtngccnanc 60
gantcgaatt nngcacgagg cttggatctt tgtcnaaacc ggttatgtat gtcaaggagg 120
agtttaaggc ctttccgcac caccttgtgt atccctngcc tgcncagcgc atgtatnacg 180
tggagttgct ccttaccaca ccttanntgc ccctgagccc tatttnctag atttcttngt 240
gggctggaaa cccccgtnct ccaccagcat ntccattatc ccaaactttc tagncctgct 300
gatcctanca nnaacggggt ggaaactgga gggcngcgtt ctggcngttg tcnaagaaac 360
ttatganttc tattatnagt acaangangn taaaatggnn ccaatattnt ttactaanct 420
catgntatat ngagangaaa ctcctatgat ctgnttcang aaggtggtta tngctnggcn 480
gttnacgggn tnnttanggn taccaaatnt aactctgctn tcatacctta atctgactan 540
tcnagnattn ttagatgttt ggggngannc atcctcttaa aatnggnacc agggcntggc 600
ttcngnngan gcngtgntna ccaagtgaac tatatgngnt ctcatcannt gctntangcc 660
nactggaaac acntttgncc cgcaagnnnn gctgttgagt cgatgtactg cnttcccatt 720
natggctaca nttgcttatn aggtngc 747

<210> 5053
<211> 1014
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1014)
<223> n = A,T,C or G

<400> 5053
gnnnnnnctg nnnntttaat cagnctcttg ntctttngna ggancctcg attcnaattc 60
ggcacgaggn nntgntcctt ntgnncnncc cnngntggng anatcnannt ggcttgtctt 120
nnnncgnacg cnngaagnaa cgggcntctc acgcgcntnt gnattgtntg acangganca 180
tgnacctncn tacnnnngcc atntgntnnt ccaactgcnt gaanggctaa tcctnggcct 240
gctctcnnan nggntgnntg tggnaaangg ngtttggttt aaaannncata nnaatnncct 300
tccatnattc agnctgtntt ttnacngggn anttnatnnt caatncntnt agctgntnan 360
cnncggcann gctcaattaa tncntgnact ctnnattttc cctnccnttg nanttgcnat 420
cacattaatg cggatcaana tnggntttta tgaggaantt ntctcgactt attaaggnac 480
ccccaaccnt gngctagtga ttttttcaann ncatgnttgc angaaaaaaa ccctttcaaa 540
aaccttaatg gnaantttct ttgaggctta aanaataaaa tncctgggggg gtttacttgg 600
ggggnccaag cgggggggga ntnnaannтt tngccttctt tnttttggga acctttttnan 660
ccnttgggaa atggaatggg accctccccc cnttttttag gggtaaatcc caaanggggc 720
cnttgnnngc ggnccccnna aaangtgggg ganatcnaac cctggcttng ggggatttta 780
aaaaaatttt ttnccaaaaa attnggnnnt nttttttttt cnnnnncnnn nnaatggggg 840
gaaatttttt ttttggggcc cnaaaattta aaccccggtt tttttctcca gggggnaaaa 900
aaaaaaacct ttttttttt tcccnnnnnn naaaaaatgg gggtnttaac ccaaaaaann 960
cccggtngnn nncctttttna aancnccaaa aancnttttt ttcccccgna nggg 1014

<210> 5054
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 5054
agagnnnnnn nnnttnttnn ctacttaatt gcttggctac ttgttctttt tgcaggatcc 60

catcgattcg aattcggcac gaggcattnc ctgctnggaa cctngtntac taatttccac 120
tgcttttaag gccctgcact gaaaangcaa gctcaggcgc nggtggtcgt tgtgacccaa 180
cctgcagtcg gtccnggncc ggcccccccag aactncaact ggcaaacagg catgtgtgac 240
tgnttnanng actgcggagt ctgtctctnt ggnacatttt gtttcccgtg ccttggntgn 300
caagtngcnn ctnatatgan tgaatgctgn ctgngnngaa caagcgnngn antgaggact 360
ctntacagga cccgatatgg catccctgga tctatttgng atgactatat ggcaactctn 420
tgctgtnctc attgtactct ttgccaaatc aaganagata tcatcagang gagagccatg 480
cgtactttct aaaaactgat ggtgaaaagc tcttaccgaa gcaacaaaat tcagntgaca 540
cctcttnant tgagntcttc acnatctttt gcnactgaaa tatgatggat ntgcttaagt 600
acaactgatg gcatgaaaaa antcaaantt tttgatctat natnagatgg aatggttgtn 660
ccttgacttt agcttaaatg ggngcaactt taggtttctt cttgctntca tattatccga 720
aatttcctgg cttatnaact tttttnaaat taccatttgc aa 762

<210> 5055
<211> 1024
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 5055
ntnnnnangn ancnctttga aacgcctctc tngtangcgg atcccatcga ttcggtntgc 60
ananggcacn aggctgctgg gcctggaagn ccttttgggg ccactcgcta attctcatgt 120
gtngctccgg cccctccagc tgcaggtggg tgtggagttt gaggccagca caaggatgcn 180
ggacaccanc gtctccttcg ggtaccagct ggacctgccc aanccaacct gcttttcaaa 240
ggtaaaggtc tnggtttccc tacgcgggaa acaggcagga agtgactcaa cttntgantg 300
ggatgtntgg gccaccacag gtgctggagg acagngagcn tgncaccctt ntngggcctc 360
cacattaccc ggggaacact tgttaaaang taatgtgggg ccgggtgccg gtnngctcac 420
gccctgtaat cccagcactt tttgggaagg ccaangcggg cccnaaggta atgggagaat 480
tgnagaccca tnnctgggtt taaacaccng gtggaaaact tccgttnttt taactnaaaa 540
aattncnatn nnaccnanaa atttaaaccc cnggatagtt gggttttccn gggttgccct 600
aaattgggtn nccaaaacct tacntgnnng ggntttnnaa gggnncgggn aaaaaaaatn 660
gggtnnattg aaaanccncc angtaaaagg ctngggaaac cttttggctc ggagtaaaaa 720
ccccnaanaa aancccgtgg cncananccc nggaaaattt tcnnnaancc ccctgggggg 780
cccgaaccnn tntnnnncca aanngaactt ntccaatttt tttaaaaaaa ngnnnanann 840
annacnnata aaaangctct tggggtnggg gacaaaaaac cccctntttt nacctantgg 900
ggnnntaatt ggcctttggg gngaaanaaa aannanaana ntnttnnnta taaaaaaant 960
cgggccctaa acncctttga gggntgagat ttnaaaaccc ccttngttta attatccccc 1020
gcct 1024

<210> 5056
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 5056
tnnnntnaaa cnnnannnnn tnnnntcctg aannanancn taannncana nanacnannn 60
natnaaangn cttcnaanct ggaaancttc nncgctcnag nagnaagacg gggaaccagn 120

gnctnacgag cnagacaggt nccaattagg acntcatctg gncnnctgtc agncatcaat 180
gaggggcnca atgactatag cttggancac agaccacaca cnncngcgan gntgcncggc 240
tngaagnatt atncacanct gcgnccccaa nggggcnagg tgatggagna taccaccatc 300
cttnggntgc ncgaggngga atttgccagn nangggaaat ntcagngtgt catctccaat 360
cactttggtt catcctactc tgtcaaagcc aagcttacng taaatagnng gggattaaan 420
gannnctttg gcattttaag attccnaggg gccaanaaaa ngnanaaacn nntcnctcgg 480
naatgttanc ccngnaggnt ntnatgngag ntanccacct gnctcnttct ttaccnacct 540
nannnnncac agaatnaaga tacttgggta tctgtatnta aacctgcnat tatgggtgaa 600
nacgacaccg nactcaattg tggatgagta acacaacana tgaaccanac ntgtanntgc 660
tcanttttng acccnttntc nnttatnann nagctgaggn cggcaatctt nnnantggtt 720
nccccaaaag gnttggaatg annatcccng gggttnncaa ntngannntt gnaatatngn 780
agcnnaaatn gnannttcaa ncnnntnggg agnaaaaaan cg 822

<210> 5057
<211> 1103
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1103)
<223> n = A,T,C or G

<400> 5057
cggggaaaaa ctcctncaaa aaaancagan nnacctnann nnaggaggan cccttaaaaa 60
aatatggagg cccnttgngg gggacccccc ccaaaaacca nccaagaaan aantaagggg 120
ggnccccttgg gggggggggat gaaaataang gggggnnccn tnnnggnggn annnanncnn 180
nnnnnncnnn nannannana nnnanannncnc nnnnnnnnana aannnnnncn nnnnnnnnnc 240
nnnnnnnnnn nnnnnnncnn nnnnnnnnnn nnnnnnnnnn nnncnnnnnn ancnnnnnnn 300
cnnnnnnnnn nnncnnnnnn nnnanngcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnncnnnnn nnnnnnnnan nnncncncaa nnnnnanncn ncnnnnnncc 420
nnnncncccc nnnncnncnn nnnnncnnnn nncnnaccan canacannnn ncnncnnnnc 480
nnnnncnnnn nncncnncaa ccnncncncn nccnnnncnn nnnncnacnn cannnnnnac 540
cncannnacc ccancncnnn cnncnnccnc cnccccnacc nncnnncncn cnnccnnnnn 600
nnncnnnnna nnancanccc nncccaannn cnncennncn ncnccccncn cnnccccnnn 660
nncncccccn cncnnnnccn cncncncnnc ncacnnccnn cacccaancc ncnnncnaca 720
nnanccccnnc cccncancen nccnncnnan cccaccncen ntcnnccncn canannaacc 780
cnnannnnnn cnnacnannn nnnnnccncn nncannnanc cnncncncnc nacnanncnc 840
cnnnncncnn nnannncaan cnnnncnatn nncnncnana nnncnnnccn nccnacncnn 900
cnnnnnccnn cnncncanna nnnnannann ncnccncnan annnnnnann cnnnnnancn 960
nncancnnnn cnncnnnnnn ccncnnnccn cancnnnacn cnccccnnnc nnnnnnncan 1020
nncnnncnnn nnnncnnnnc acnncncncn ccnnncancc nccncccncnc nnncnnnnnn 1080
cacnnnnccn nnnancnncn cct 1103

<210> 5058
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 5058
agagnnnnnn nnttntnnct actaatggct tggctacttg ttctttntgc aggacccatc 60

gattcgaatt cggcacgagg gnaaattgng catnnnnntg tttgcngatg gcnncnttan 120
ctattnnatt aangcncntt atactctgct gcttaactng cttgtaattg cacntnngtt 180
acctgcacat tttcatatng aatattgtgn tancatngct tantgtgngt ctggatggaa 240
gatncntggg cctacaggat cattaatgac atattgttta tattacagta ttatatctgt 300
gncatcagcn gtaantncat ttntttacaa atanangcct gttccatttg aaanatatac 360
aagtgtgtgg ncaaaaggaa gtatacccag nancaagccc atgangagtt tcagcaagtg 420
ttcattcctg antgcnatga ctacngcgcc tacagtcang tncagtgtca cagctacacg 480
ggatactgnt ggtgcgtcac gcccaacggg aggcccatca gcggcnctgc cntgncccac 540
aagacgcccc ggtgcccggn ttccntnaat naaaagttnc cccaacgcga aggnacatga 600
aaaacagatg atgccgtanc ttcanngtnn ganactcanc cttaaggnga ttaagaaaat 660
tttgcatnaa gtttaccctt acccttttgg aattgaacan ggttaaaaag ttcccaataa 720
cnaaaaccca ataaganttc aatggcctcc tntggancca a 761

<210> 5059
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 5059
gngnngnnnn nnnnngnnnn nnnnnnnngn nagnnnnnnn gaggnntttn ngatacagct 60
cttgttcttt ttgcaggacc catcgattcg atcantgtga actcttaaan catgcngaag 120
cnnctctagg aagtgngaat ctgatacaag ctgtgatgtt gcctgangga gangatctca 180
atgaatggat tgctgtgaac actgtgggat ntcttnacca gatcaacatg ttatatggaa 240
ctattcagaa ttntgcctga ancaagcttg tacagtcatg tctgcanggn ccagatatga 300
atatcactgn canatggtac taatattaaa aagccaatca aatgttctgc accaanatac 360
attgactntt natgacttgg gttcaagatc agcttgatga tgaaactctt tttccttcta 420
agattggtgn ccatttgccn aaactttatg tctgtgngca nanactattc taaagcgtct 480
gntcagggtt gatgcccatn tttatcacca gcactttgan tctgtgatgc anctgcaata 540
ggaggcccac ctcancacct gctttaagca ctttattgtc tttgntcagg agtttaatct 600
gggtgatagg cgtgaactgg caccttgttc aagaattaat anagaanctt ggatcacaan 660
acngattaat gtttnttnta gaacacagtt ccccattgct taatctattg ntagactatc 720
tnattgctat ctggtattng actacg 746

<210> 5060
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

<400> 5060
agagnnttnn ncnnctgaag ccctntaaan nggctgggta ggtcgtnctn tctccangca 60
gccannngcg nntcgaattc ggcacgcagg tagcgacntt tnnagtangt ggtgggcanc 120
tcaccgtggg nacagttagc ctntctatnc ctngcntnct ncaactccnc gnantngcta 180
aanggctggc nanaaagcat gnaaaggact ccgnaaaggc cannacataa cgcngtatnc 240
nccgattcgc anancagctc ggntggcagt gnccactngg antcgtnnta tgatcgacac 300
ctagagatga tactggcgca cncagcnttn gtncaacgcn ggctcaactt ggcnacnant 360
gncacnggng caggngnncc tggagtacnt nnccgnaagc ngtgctnnga ctnggcntgg 420

actgnntcan aagactnnta ngtaaaccgt atctccacnc gnatcntgca actatgctnc 480
ccttgganat gagnnancag antgtcatan aaangntaca antgcngata gtggnncant 540
cacananatg cacagngccc ntnttgncaa natnggacat cccaggaant gccagangat 600
canggangcn ttgaaatntt angactnnta antgtcncnc gcttgtnaca gagctgnttg 660
aaaggcagtc ggantgcatc cctggngaaa gcccacaagt nntgacgttt tggggattng 720
natttgaanc aaaagcngaa gaactttaat taggattctn cnanccatcc cnaattgctg 780
ggaattcgaa atctttaacc acatggcc 808

<210> 5061
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(792)
<223> n = A,T,C or G

<400> 5061
taannatcag ctcttgttcn ttgaagcctg ctatnnncag ctacttgttc tttttgcagg 60
acccatcgat tcgaattcgg cacgagtgga aaangtttta tttntncact gnngttgncg 120
gttaataana tggtgncaaa cgtgcnctgg tnacacactc gantatntnt ttangaaatg 180
ntnatgtggg natgattacc nttagatcaa tactttaaat aattttaccc nttttacaag 240
ggtaaccang ggcatactga aactttagaa cncttncngc aatnncnatg ggggangttg 300
ggtgangctt nggatccctc ttttnngttt tgcacgntgn aanngangtt nccagntggc 360
atnttgaata tgctgctttc caaaaaccca ngaagttnta aaattgcttc ctggncttag 420
aggactaana acaagaccct cattcccact ttcatttnca ctctagcaaa aactgggctt 480
gcgtanttct ccanctactc gnntatatcc tcnttccatg tncaaacctt ncattcctaa 540
gngggattgg cttacttttng cccatccata tggcagnatn tntaatagct ttgnaccggt 600
attagatctt ggccttaggc ccangttcaa aacaagtgcc natctatgac cagggnccaa 660
anaaaaaana tccaggattt cgaangagan acnntncatt gggantnaag actcntacna 720
agtccttagc cnttttcata aaagcctggg cctctaatgn ctgnnaccat tttaanggga 780
canttatnaa an 792

<210> 5062
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 5062
tttnaaancc ntggttnaat ncctnnttga ancctttta tgatacagct cttgttcttt 60
ttgcaggatc ccannnncag gcttgaccca ccgcgcccag cctgtaattt cttatacttn 120
gtatnttgta cttgtattat gcttctgata cgctataatn atttatgtac atgttttttt 180
nctncaatan actgggaact cttcgaatgt aggactnnta atgctagata ctcaattatt 240
ttntattaaa ttgaatgact ngaaactaca gatccttnat ntaaacttcc caaatttatg 300
ctgtatttaa ncngctcttn aaatctggtc nntaangnga attntnaagg cttgggacat 360
gcacatgatg gntgtattgc caactgngaa aaggtgatgg nttactggag caggggcaag 420
gacacctggc cccgcccgga gcaaaaactg ntcaaccaca aacgatagca ggaaaaggcc 480
tgtgncttnn gcaacantgt nttgctgcag ataatnncnc agagcctgnt tctctgntct 540
tnctgagatt gctttggttc cataaangat tgttttagct aatctacaat ctatagaagc 600
aatgntanaa cttggttttt tggantaaan ngnnggggna aagnttngna atgtgggntg 660

tcaannttttn gaaaaaannc tnnatacnan caaaanttna nccattttna atntttagng 720
gnggantant ttnatnnann nttnntagan actntgntga gtttgnaaaa acccaaantn 780

<210> 5063
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 5063
cgnnnctttt tgaacccatt tctcgttctg caggatcnna tcnattcgaa ttcggcacga 60
gggaacttac ccatggggac taatntggaa aaggtctgtc catagtggnt ccctgaagac 120
tggaattact tcagcaaaac ttncccatga acagctaatg tgtanngaaa gantgancta 180
gcaaatgagt tttaccgggg acaaaaaatc aagcanaana gtgaatgctt agaaccttct 240
caaagcantc acaagtacag acacttcact tagcctaggg ggccttccag ggttcttgtg 300
gctgntgtca gagcaggagc tgggggaggg aagacttgtt ctctctttct tgaggggtgg 360
cattaggaac ttacgaaacc anagaccttt ccctatgact tggcagnatg tgaatatcct 420
ctacacttag ttattgataa acttcttaaa gagatctgct attttcaggt agtgccataa 480
tctgcactta ncattggctt gcttcagttg ggcctcttcc canccagtat gcccaggtga 540
actttcgagg ttgtcattaa gtaagttgtg aaatttctgn aataacaaag gcagtcnngn 600
attctttcct tttccnccaa attcctaagg caaaactttt ttatggngct ggtnacatgg 660
ggagtnacac aaccnnctga ctttttctca ttgccattgt aatgactgat gganaacccc 720
accncctggg atccaaatga caattgtgct gaaaaaccna tc 762

<210> 5064
<211> 763
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(763)
<223> n = A,T,C or G

<400> 5064
gnnntttnnn atctgctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
anggtgactg cagttgacga aagcatgcca tggggtatgg ggacattgnt gggccacatt 120
ttggngacng accccngctg ttgactttgg gacccnatcc tttgannttt ggcntgccct 180
cntagngctt ggaattccct gttttccagc ccancccna tggtatgtat attcnttaca 240
agtnctccna aagancannt gtctaggatg cggggagggg aggttccttc cntangggag 300
cgtgganaga agggagcagc cttggggttg nattntnggt natgcntcan attgggcatg 360
catgggatgg nanangggct cagccactnt cctncagaat cttcctnaga ccctncaact 420
gcantatgta atnctactct gtncttcata naagggangg agccacatat gacattccag 480
ttctaagccc ancatggang aacangncta tgtccccata ngtgangtan aagtagaggg 540
cttcacctgn cagtatncct gccgctactt cctcacataa ggaangacga agaagnaacc 600
nggacctcgc tttnccatgg cgcantcagg aacanggttt tacgcagctg gccaactntg 660
aggctntgct gnctttttnct gtggncagtc caggaaatgc ttacaccacc ttttttccca 720
ctnttnnctc ttggattntg ggggnccenc aaaccggaat tnn 763

<210> 5065
<211> 762
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

<400> 5065
cgnnnctttt tgaacccatt tctcgttctg caggatcnna tcnattcgaa ttcggcacga 60
gggaacttac ccatggggac taatntggaa aaggtctgtc catagtggnt ccctgaagac 120
tggaattact tcagcaaaac ttncccatga acagctaatg tgtanngaaa gantgancta 180
gcaaatgagt tttaccgggg acaaaaaatc aagcanaana gtgaatgctt agaaccttct 240
caaagcantc acaagtacag acacttcact tagcctaggg ggccttccag ggttcttgtg 300
gctgntgtca gagcaggagc tgggggaggg aagacttgtt ctctctttct tgaggggtgg 360
cattaggaac ttacgaaacc anagaccttt ccctatgact tggcagnatg tgaatatcct 420
ctacacttag ttattgataa acttcttaaa gagatctgct attttcaggt agtgccataa 480
tctgcactta ncattggctt gcttcagttg ggcctcttcc canccagtat gcccaggtga 540
actttcgagg ttgtcattaa gtaagttgtg aaatttctgn aataacaaag gcagtcnngn 600
attctttcct tttccnccaa attcctaagg caaaactttt ttatggngct ggtnacatgg 660
ggagtnacac aaccnnctga ctttttctca ttgccattgt aatgactgat gganaacccc 720
accncctggg atccaaatga caattgtgct gaaaaaccna tc 762

<210> 5066
<211> 746
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 5066
agagnnnnnn tnttgtctac taatagntgg gttggntnnt tnttctncac gcannccagc 60
gnntcgaatt cggcacgagg tccatctttg tagctgacat gacacatttt aaaaatttca 120
cattaaaatg aaggcatcta atggctccat tatgtctttt agagtggtct ggcccagcta 180
attgcatatt gaaatacatt agatttgtca taaattactt tccttttattg tcttttctgt 240
caatcttagg acattaaatg tatatgtttg aaattgtgtt taggtaggtt atctgagcat 300
ttggttcana tagtaaagag agtgttataa gttcactgta agccccaggg gctttgggac 360
tgatagggtt tagaacattg cactagggga aatgaattgt aaagtaatgt tntttctcta 420
gactaatgat tcagctgaat taatactttt aatgtgaagc atttttaaag aaagcaaacc 480
agcctggtgc ggtggctcac acctgtaatc ccagcacttt gggaggcaga ngcgggccgg 540
atcacgaggt caagagattg agaccatcct ggccaacatg gtgaaaccct gtctctacta 600
aaaatacaaa aattagctgg gcataatggt cntgcctgta gtcccactac ttgggangca 660
nangcaggag aattgcttgn acccgggana tggaagttgc atgacccaaa tcgggccctg 720
nacttttacc tgcacanant gagant 746

<210> 5067
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 5067
gnnagnnnnn nngngnnntt tnagatacag gctacttgtt ctttttgcag gatcccatcg 60
attcgcaagc attcaagaaa taatggtgag aatagcctgc taatagcatt attccatatg 120
caggttgatg ccgccttacc tttggacatc ctaacctatg aagagaagac cttgtcagcc 180
atcttgagaa tatgtagcag tggtcttgtc aaattgtgga gctctttgac cctgttagga 240
tcctataaag gcaaaaaatg tgctttccgg gtgattcaag tttctccatt tcttcttgca 300
ttatctggta atagtaggga actagtattg gattgaatga ataagtcttc cattttggaa 360
acgttcatcc actctcatat ttatttttg gtgcctgcat gtttgaagac tgaagcaggc 420
taaaagctct tgatgaaatt tgagggtgct gaagatgttc ccactaattt ccagccatca 480
cctttggtgg ggtgggcttc ggaggacaag tctgtctgaa cctgccagtg ctgaccctgc 540
agcactttca gcatatgcac atcaaaagtt ggagaccgcg cctgaactta nganggcctt 600
cacacagact gatgtggcta cccttctcag aattaacagg ggatgtcaat cctttgcatt 660
tgaatgaana ctttgcaaaa cacaccaagt ttgggaaatn caattggnca tgggaagttt 720
tgacaacgga ct 732

<210> 5068
<211> 820
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

<400> 5068
gggntttata tatcagctct tgttcttttg caggatcctt cnatcggtan ncngnncgan 60
ctganttcgt acnnagngct gctnntacct gggctnactg gannnctcca nctacncagg 120
cagnaggatg gnagctnaac tnccangang agcttgcaga gnncctgnna tccgtgccac 180
tgcactccag cctggcctna cancanccgn gactcnngnc tnntaancct aaaagnctcn 240
ttatcagcat gcntcccatt ganagngtcc tacatnctgn gacattcacc tatattccng 300
ggncctntta attnncaacn actgctctta gangtcttag nctttttatgt taattctnat 360
aaatncnatt gaatanatat tatncccaaa tcttagtgtt ngcatnttag ctattnaanc 420
ctntccaang tangttaaag gccaccgttt tcngatnaat nctncntttt atantcnatc 480
tggaatancg catttctntg agaataaaag anagtttntt tnaanaatag gatcttttng 540
nccccttcggn ncgnccttttn tgncccntag ctgctttggn gcaantntga agttgagnga 600
tcnncnttgt agccctagga atttccanan ttgcnctgnt gtnantggaa cttctnancc 660
ttgtgccnan agnantnatn nccccctntnn tttttaaaaa nnaattngtt tcaaanttcg 720
nccttntttn aataggcttn anatgnttat anaccnnggn cnaagttntn caatcttnan 780
tccctttnag nntccnaatn aatntaaant ccttnaatng 820

<210> 5069
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(833)
<223> n = A,T,C or G

<400> 5069
nnnnnnnatn atnnnnntnt nnnntntntn nnannnntnt ttnnnntntt ttggtgaggt 60
naatcttctn ttancctcca nntntcgntc tnnttgcant nccngtcgat tcngataact 120
agtcaataag gaacaggatc aacggccact ccacccatgg caaatccaca tgcagggnnt 180
ctncaccaag gttccagcct ncaaagtgaa anacgccntg gaacagcnag ggaggtnaac 240

aataattnaa nananagaan ggaataacgg cnnaagaaaa ngaaaanaga ancgaaanaa 300
ctaangntng aaaaccaccc ggaaaactca aggaatcaca atcctaanaa gcccaaaaag 360
ggacaggang ctnancttga ngctggtggg gaggaantcc ctgaggccaa tggctctnca 420
tggaananga gcnagaataa gaancanngc aaggacancn ccncttagga atangcacgc 480
gttggcgcng ggaaaacgaa ncngangcac tctgaanttt aaacatattc tnagaaacaa 540
caanatnaag cttccagaac attctgaagg gcnganaacc agaataccat naagctcctg 600
caaaaagtta attnnnctgg aagggaacta ttaaancatt ctnaaacaag ccccaaacaa 660
tnaaataacc ctcaaaaagc taangaaaaa agtttttnct tantactaca caggtgacca 720
gatttagcct tnaccagatt tccaaanaag gaaactncct tgggtcattc ttttaacaat 780
gaaaaattta tctacntaaa nccttтcctt tttaantttt tttaaaaagg gng 833

<210> 5070
<211> 741
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(741)
<223> n = A,T,C or G

<400> 5070
agagnnnnnn nnntttgtct tntggctctt aanaggcttg gctacttgtt ctttttgcag 60
gatcccatcg cttcgaattc ggcacgagga gccctcttat tgtatatact gaacgcattt 120
ttaaattgaa gagatactat tctgtgtatc tttgcaggcg aatgagtcct aggttggcca 180
gtgtctcact agttgagatt aaatttttgc ttatacttgt tgatttgact gccttctgaa 240
tagtattagg aacacattgt aaatttgttg ttgatggctg gctgaagttt tccagcacat 300
ttcttgaggt tgccaagttc ttctacaatg actgaatcta ctcttcattc attctagtca 360
gcagtctcac acttaattcc aaggtttact taagattttt ttctgaaaaa gcaatgcttg 420
ctttccatat ttgcatattt tttctctgcc ttaatagcag aaacaatggc ttcatcttgc 480
atttgtatca gattctttcc attgatatat cttgtcctta ttagctagtt gtttcccact 540
gggtgcagtg gcttatgcct gtaatcccag cactttggga ggtcaaagcg ggaggattgc 600
ttgagcctag gaattcaaga ccagtctggg caaaatagtg agaccccatc tgtcaaaatg 660
aaaaaaaaaa aaaaaaactc gacctntaaa ctatagtgag tcgattacgt agatccagac 720
atgataagat ncatggtgag t 741

<210> 5071
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 5071
nttttttnaaa acnacangct ncttgtgcan gatcccatcg attcgaattc ggcacgaggg 60
tggctcggnc tgtngctgng gtttcctgag ttgctgctgc tgcggcggcg gcagcggcgt 120
ctgtgcttgn ggaggtgtcg gcctntgggc ggatgttgac attgtgttgn tgttatngct 180
gatggtaatg gcnncggcgg nggcngctga cggtccagac cccatccact ctgtagccgg 240
agccganaca gccgacagcg aactncncgg cctcgnatcc ggcagcagng gngactnccc 300
tcagcctgcg ccgcctnncc cgncggtncc cnngagccaa cccngggagt cangncctnt 360
nngcatggga gctcgnaagc tnangatggn ngatttacac aaaanctatg atgaatagga 420
ggacnaggan cggccctgga ggagcagctg ctcaattact caacggaccc ggtggtcgtc 480
ctcggatccg gtcanntcan cgtatnagga ctgagcaaca aatttgaatc tgaattgcct 540

anttcattaa ctggaaaant cactcctgaa gaatttaaag ccngcattaa cattantnac 600
aagttggatt aanaaaaacc ttctgtaaat gtccgttnct ncttagngga ngccttnnat 660
tgctgctgcc attangtncn ntttgtggcc agtnnttggc tnaattaaag aacnctaaaa 720
ngttgagnat ttantagaat gggaaaancc atccgttnnt 760

<210> 5072
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 5072
gntttactna tatcagctct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
aggaccgcca attctaagat tgtagtggta actgcaggag tccgtcagca agaaggggag 120
agtcggctca atctggtgca gagaaatgtt aatgtcttca aattcattat tcctcanatc 180
gtcaagtaca gtcctgattg catcataatt gtggtttcca acccagtgga cattcttacg 240
tatgttacct ggaaactaag tggattaccc aaacaccgcg tgattggaag tggatgtaat 300
ctggattctg ctagatttcg ctaccttatg gctgaaaaac ttggcattca tcccagcagc 360
tgccatggat ggattttggg ggaacatggc nactcaagtg tggctgtgtg gagtggtgtn 420
aatgtggcag gtgtttntct ccangaattg aatccagaaa tgggaactga caatgatagn 480
gaaaattgna aggaagtgca taagatggtg gttgaaagtg cctatgaagt catcaagcta 540
aaaggatata ccaactgggc tattggatta agtgtggctg atcttattga atccatgttg 600
aaaaatctat ncaaggattc atncctgtca acnatggtaa aaggggatgt ctggcattga 660
caatgaannt ttctgagcct tncatgtatn ctcatgcccn ggnattaacc tcgtnttnac 720
ccnaacctan ggatgatagg tt 742

<210> 5073
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 5073
gnnngnnnnn nnngnggnnt tttatatcta ctggctactt gttctttttg caggatccca 60
tcgattcgaa ttcggcacga ggcccgagag ggaacctcct ccgctggggg acgggaagcc 120
caccgacttt gaggatctgg aggacggaga ggacctgttc accagcactg tctccaccct 180
agagtcaagt ccatcatctc cagaaccagc tagtcttcct gcagaagata ttagtgcaaa 240
ctccaatggc ccaaaaccca cagaagttgt attagatgat gacagagaag atctttttgc 300
agaagccaca gaagaagttt ctttggacag ccctgaaagg gaacctatcc tatcctcgga 360
accttctcct gcagtcacac ctgtcactcc tactacactc attgctccta gaattgaatc 420
aaagagtatg tctgctcccg tgatctttga tagatccagg gaagagattg aagaagaagc 480
aaatggagac atttttgaca tagaaattgg tgtatcagat ccagaaaaag ttggtgatgg 540
catgaatgcc tatatggcat atagagtaac aacaaagaca tctctttnca tgttcagtaa 600
gagtgaattt tcagtgaaaa gaagattcac gactttcttg gtttgccagc aaaattagca 660
gccaatattt acatgttggt tatattggng ccaccacttc cagaaaagag tttagtaggg 720
atgacccagg gc 732

<210> 5074

<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

<400> 5074
gnntttctaa ngcnngctnt cttctgcngc tccnncnatc cgtgnntaca cancacgncg 60
angnntntct gactnttnnn ctatgtaata ngcaggngta gttgnntntn tgctgccatg 120
natgnatnna catnncatgt gcagtgtctn acgtaatacn ctccnatnaa nctngttgnn 180
cntactnntc nncaacntgg atatgncant ttgnncagna cnantgntgc anattggaan 240
atgatggcct nactcttacn atgtgattgc ctatatgncc tctnnacctt gaatacntnt 300
gntatncnan ncanagtnct aaaggatgnc natnatagca gcnctctttn naaataagga 360
aacntccttg aataatgtaa aagcctcata tacaataatg aataataaag aataatgtga 420
aggcttcatt caaggttgnn gtttgccaga tcattgcaac aaaatgacag agcanccaac 480
gtatttanga tagtggccaa agtattgtaa tgatggctta tggagtgtca gctggataaa 540
gagtgaaaat gactaaaaac taatggattg ttcagtcgaa tagcanatgg tcaatggtca 600
tggccagtat aataggggga cccaaatana aattggaaga cccagtcana agtggggant 660
tgatcaattc canccaaaag tgggaatggg caggggaatc ggtaggcccc anggttccaa 720
aaatgttacc agnggncaat tttgttggcc ccatggtggg gaatccaang gc 772

<210> 5075
<211> 750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(750)
<223> n = A,T,C or G

<400> 5075
agagnnnnnn tnnntcttat cgcctaatgc ttggctactt gttctttttg caggatccca 60
tcgattcgct gtgaagacct ggaaacagac aaaaaagagc ttgccaagct ccagactgtc 120
cagctggatg aagatatgca agacttatga actttatttc ctcctcacct ctttttggca 180
tcagcggcaa atcttttcat gaagccccaa ggacacaaaa cattttccca tttaaaggaa 240
aacactctag ttttgcaagt atatgcatac aagagacttt agattgatct gcatgaagat 300
cacagttaag tatacaggag tagaactgca ttattgcagc ctttttgttc acttataaat 360
ttctctttta aatagatgga gacaaaggac aaggtgaaat gtatcaagtc aaagtgaatc 420
atttagttga ctctataatt ctaaggtcaa aatggaactt gatagttttt taaattaaaa 480
aatgtataca cctaacatag aaaattaaag atagctgcag accattagaa ataatacaat 540
tgtttttgtt tacttttact ccatgggcat tgaaaaggtt aagaaacata aatggtccat 600
atttttaaag ttaagtagca tgcatatata tatgcacaca cacctctttt tcagcatttt 660
ttgagaaagt cttggggtct caaacacatt tgtctcaaca catttccaaa tgtggattct 720
aatagctcan tgtggctgaa aaagtgccna 750

<210> 5076
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(761)
<223> n = A,T,C or G

<400> 5076
agngnnnnnn nttntctnnn ctactanctg nttggntgtt gtttctgcan gcaggcnntc 60
gattctaatt ctgccgnacn cgngagtaaa gctggaaaat nacctataaa taatggcana 120
aaaaaagcta acaatangga agaggaacta tataaaagga acatttggag catagaagag 180
agttcatgga aatgtnaaaa atgatggtac cctgggtttg atatagtaag taaaaaacta 240
agggtaagag ggtcatgaaa gcatctagaa gtaggaggga aagccagtca aattcacagg 300
atgaagtcag gaagataatn gagcagtgcc cgcaagatcc tgagggaaag caagttccaa 360
tctataagtc tgtaaccctc acacctgatg gccccttgaa catattcagg gcttcaaaag 420
attgatctgt catgcaccgt ctgccatgat actgtgtgag gatgtgttct tcttcttaaa 480
cattaaatca agaaagaatc aacagtggac ccagttaata gcngatcagc cnaggataag 540
atgccctaga agatggtgaa gggaaagtct cagaactact ggtcttcagc aggcagcgaa 600
gacacctgat ccatattgga ntggtgggga tgcgaacttc aggaagggat gcccccaagg 660
aaaaattggn aagggntgat gactgncttc aanaggttcc aggtctttta aaaattttcc 720
ctnccaaccn tcacntttgg ctttngaaan ccncgcctga t 761

<210> 5077
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(765)
<223> n = A,T,C or G

<400> 5077
agngnnnnnt tttntctctc gcctaatgct tggctacttg ttctttttgc aggatcccat 60
cgattcgaat tcggcacgag gacnancccc ngcgcctgcc tntccangat gtctacanaa 120
ttggtggtat tggtactgtt cctgttggcc gagtggagac tggtgttctc aaacccnnta 180
tggtggtacc tttgctccan tcaacgtttc aacggangta aaatctgtac naaatgcacc 240
atgaactttg agtgaagctc ttcctggnga ctatgtggnc tncaatgtca agaatgtgnc 300
tgnnaangat gtcccgncca aggcaacgtt gctggtgacc gcataaatgn cccaccaatg 360
gaancatctg gcttcactgt tcangagatt atnctgaacc atncatgcca aataagntnc 420
cgntnatnnc cctgtnttgg attgccacac ngtttacant gcatgcaagt ttgntganct 480
gnaggaaatg attgacnncn ntctgnntan aagntagccn atggccctan attcttggac 540
tctggtnatg ctgncatngc tgatatggtt cctgncaagc ccatgactgt cgaanagctt 600
ctcaagacna tncaaccttt ggntcncttt cgtgctacga ggatattgng caccggacag 660
ttgccgnagg cnttttgatc aagggcccnt ggacaaaaaa gctggtcgaa cctggcnaag 720
gtnaaccaan ncttcccccc aaaacttcan naaggnnaan tgcan 765

<210> 5078
<211> 969
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(969)
<223> n = A,T,C or G

<400> 5078
annnnnnnnn nnnngncnnc nnncnnnnnc nnnnnnnnnc nncnnncnnn nccnngnnnn 60
cnanncnann ggggnnnncc gntnaaaacc ggtngcccnn gcgcncgggc ggggnggcnc 120

nnanccgaat ncngcacgna cggggccgnc ggngggaccc tgggntgggg gcnagaanca 180
nccgacgcng gccagaanag ggggnctggn gncccaagan agaanncatg antagnacac 240
tgganacnaa anccgtgtgg ggacacatga anccccnanc ccatgngtcg nancctgccc 300
anaagtgant gtgnagntna ctggaagttg gggntccaac cgncaaaccg tgggatccca 360
aaacnncang ncaagccagg accttngcac agcccgnaaa ggnanatncc cnctnaanng 420
tctngagacc cgggntgnct gggggaaaca gcaggcccgc acantgnnng gngtngggac 480
ttancggaaa catgggtaac gtngcancag cgccacggga gtccaacccc tgaaaatacc 540
caganctcgc gtgnanancc aaccgngnnc ccaaaacaaa gcnaggggnt atgggnttaa 600
aancccenna nttnaanagc ccnccgnggg gnaannangn agnnttttg ggancccaaa 660
ancccnngga gggggcccag gannegaaaa aangnatncc cnttnaaaag gncnccanga 720
actnanaaag gganaaccan nntncgnngc ccaatntnac ccccaannca aatncccnnt 780
tccgtgcngn cccaatnatc cnccnagtnc cattntggcc ncnagnggng ggggnncnnc 840
aaangncttc ttgnaaacan atnggggaaa ccntttnacc aaaaaanngc gnannnnggg 900
cccaatancc accgggnccc ccccanannc annggccann ancntgggcc tccaaaaaaa 960
agaaannngg 969

<210> 5079
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 5079
agagnnnnnn tttttgtctc taatggctgg ctacttgttc tttntgcagg atcccatgcg 60
attcgaatgc ngcncgaggc nttagttgct nnttgaaaag ggaactgcac ntgatcnnat 120
catggaanga tagctncact ncttnccgac cttggtcaca ggccgncatg agganggact 180
gttccantgc tncngnggcc nctgncntgn tnctcatcac tggncttagc tttggagtac 240
ncaactccaa gtggcccgag tctagactct atcaaatncc acactgatag caacaatgan 300
tgcatctgat gtgtgctgct ggcnatctta agcccaaaat gcttcaaaga tnaaacagnc 360
atatacattn aagatacata tanaaatngt nnaattngaa tgtatacaan ntagattacc 420
ctaacgaact tcactacaag aaatncatct tatatccnng cacnnaaatg tgganntnta 480
catgaaagga tataccgttt nanaaaccac atnccatntc taaatgctga ntgagaaggc 540
ntggactact aaacctggat tactgatnaa atttcaaaan gancttgatt ttgctagcag 600
aaatcnttac ccngttctcn agcttctata ancagttctt gaagggatta nacagctggt 660
cctctntcca aattctggat taatttcagc tgtgtatttc cnannnaatc tttcagcctc 720
tagaactata tgagtcggnt tacgtann 748

<210> 5080
<211> 949
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(949)
<223> n = A,T,C or G

<400> 5080
gncntacttt nttatcntan cactctgctt tncgtcatca tcgantccta tnatgtgggt 60
tnacctnatg cgggnntaan ccagnaacan cntggcccat gtnnccntga actcacattn 120
tgttcatgna ttccagaatt nttnantgga nagattaata gncagaaacc ccactaggna 180
canatcacna nacngacgct tntagcttgn agacctntta ggcanaaagt annaannana 240

ntnggatctt gcngncctta atctcttccn ggaananggg cctatagntg gcnacttgga 300
aaacacggcn ctgntccann gtttnntgcc ccnnacccga gacaccacna gtgtcacctc 360
caaggggggn cttcaaannt tggggtgcgc ccggtacctn ttgaaaatga aggtcncccc 420
caaatggggn gngagttnnc catncctcgc cccttgnggg ttnatttggg ngaacctcnt 480
tggncccctn tttttacttt taggggggcan cccccatttt cnccctttggg acccccttng 540
gattttgtcn ccttgggaaa acaatttttc ggggnccaaa actttanaat tnaannttgg 600
tttanagcna anantgtggn cccaaaatgg gtacangggg gttnccccaa caaaagccgg 660
ctctttttga tattgcatac ctcaatnccc acttgtcaat ccnttttaa ttactttanc 720
ctctaacata atgaatntta ncgccctnan aattccntcc tganatacat gtgangcctn 780
ttgcctgana aantgacacg aatnattttt naanngatct nntgannnnc nctcancata 840
cgatattnta cntctngnct tnagaanact cttttattnc ctggnagatn aaaanggtan 900
cantntaang ctntnttgtc atcctcanag ganttaangc tataaaann 949

<210> 5081
<211> 779
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(779)
<223> n = A,T,C or G

<400> 5081
ngnttnaaca cctgntgtcg ttctgcagga tgnangancn ctngnttcga angngcnang 60
ngtgcatgat nctgnccnnn nattgctagc gntaanaccc ncgagggagt atggatncct 120
gnaaagcnct ctggtccttg ggaanccnnt ccttnngtgc ntnttattac tgnaattnnt 180
canaagattn tgagatgctc ncagtgtcnc attgctactn tnattgtaat cattatggga 240
ttgatacgct gtcanaanta ctgccagcgg cagctggagt tgcttngcat ttcacagtac 300
anacagnaga ctatgtnaat aatnggcaga anaattctac tnngctgtgg aattcccaaa 360
ctaatatggn ccagaaacta gctaatcnaa tcanttatgt ccaacaaact gtaatgnggc 420
taggagattg agncgttagt ctagaatata gaatgcagnt acaatgtgat tggaatactt 480
ctgattnttg cattactcct catctgtata atgaaagaca gcatgagtgg gaaagagtta 540
agaaacatnt gaaaggncat actggaaatt tactttagat attntgcaac tgaaggaaca 600
antttttcaa tctttctttg gcacatctgg acacttaatg ccaggaactg aagttgcttg 660
gaaggcgctt caaaatggga ttaagcaact attnacccca ttaaaaatgg atcaagacca 720
nnaaactana anaaaaactc gaacctntta aaaccattan tgangtcgga ntaccttan 779

<210> 5082
<211> 935
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

<400> 5082
atgggnatgg nnnnnnnnnn nnnnnnnttt ttttgtttaa aaaccccttt naaaaattgg 60
gnacccttta nggggtntaa attanaatcc ctnttgaggn ncttnntacn ctccctcnaa 120
naanttaana cactantatg gccgtntttt tcccnccnta cctttgntnt acacccccat 180
tgtgcnaaaa gntnncgcaa nnggtnncga ccaaacnttg acannctcta tagtaanttt 240
acnacncnac ttgnncactt cgccanctct tnaacgccan actagtagca gaagtactcc 300
acccttnaan aaaacanaca actaangccc ttttactgcc ctcatcatcc nnttangnac 360
ctgcttacct atgaatgcct nttanacata canatntaat acctggaaaa tcatccaccc 420

ngcccncata ttcaaacnan acaacacatc cnnacactag anactcttgc ccccacatcc 480
tcaggtncna caaaacanaa aaggnttnct ncncatantt cttactggcc ntncctgaac 540
tangnaccgc atncaaacca cntcatcnct tantannttc ncttgctcct tagccagctt 600
ctgncctgan aaccnccaan ctggaaaaac acatctnccn anatccattn cttgngatca 660
caaanacnnt nnnccgcgnn ctcaannncc tactcaaaga tccactgtcn catctgnccc 720
cctanacccc tttncntang cattcctaac tttntanaca aactgcttta cncttagtnc 780
anggaactnc taccttgcat catcncccnt ttttncntna ctttcttcct ttgatcctta 840
cncttcaaag ggccttnnga ancnttgacc cnanaatnaa atttaattcc ccnttnttgg 900
aggngtcctt cnaaaccnan tttntaaaca ccccn 935

<210> 5083
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 5083
ggnnttnaan ntcagctctt gttctttntg caggatccct cgattcgaat tcggcacgag 60
gcaagacagc cacatttgct atttccatcc tgcaacagtt ggagattgag ttcaaggaga 120
cccaagcact agtattggcc cccaccagag aactggctca acagatccaa aaggtaattc 180
tggcacttgg agactatatg ggagccactt gtcatgcctg cattggtgga acaaatgttc 240
gaaatgaaat gcaaaaactg caggctgaag caccacatat tgttgttggt acacccggga 300
gagtgtttga tatgttaaac agaagatacc tttctccaaa atggatcaaa atgtttgttt 360
tggatgaagc agatgaaatg ttgagccgtg gttttaagga tcaaatctat gagattttcc 420
aaaaactaaa cacaagtatt caggttgtgt tgctttctgc cacaatgcca actgatgtgt 480
tggaagtgac caaaaaattc atgagagatc caattcgaat ttcttggtga aaaaggaaga 540
attgaccctt gaaaggaatc aaacagtttt atattaatgt tgagagagaa ggaatggaag 600
ttgggataca cttttgtgac ttgtacgaga cacttgacca ttacacaggc tggnattttt 660
ctcaatacna ngccncaagg gtggacctgg cttgactgag aagatgcacg ccnngagact 720
ttacaggttc ttgcttntgg cttcgcggga at 752

<210> 5084
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(728)
<223> n = A,T,C or G

<400> 5084
gnngnnnnnn nnnnnnnnng nnnnnnnnnn gnnngttttt taganacagc tcttgttctt 60
tttgcaggat cccatcgatt cgcnctacnc aagngntnag ccnactncnc ntcaannnna 120
nactgggcan ggatnagact catannaaca ttgtgctgca ttgagcaccn cagattcagg 180
gagccatcac cactacatgg canattgtga tctataaatt gctggggcat natcacatgg 240
ntccattntc nnaatggnca aggatgcttg cacctatcga ncngggctat gttnagtatn 300
cctggtcatt ggctaaactc atagctnanc gtaancggan tataaccatt gacctatgct 360
ngtggacatt tgacaccatc agtgtactta tnngantgat cactgatgcc tcatgacacn 420
gacctttatc aaaggacatg atggccaggn cctcttgang cntaccgtgc tatcccngaa 480
tgttgctnct nctntngggg aattttcaac ctgaggntnt gaaataatgg ncaaactcac 540
cancatggct tganggcnta cacactggnt gtnaaacaac taattgactg ngatacagaa 600

ggntncnntg ncnacttctg naggatagat ctnagaattn ttnagctgta ggctacntna 660
gaaatcggta caccctccat cganaggcca tgatgtcnat ngtacacaac tnaccatnnc 720
ttcatgta 728

<210> 5085
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(870)
<223> n = A,T,C or G

<400> 5085
gagaagngna ntnncggana gnnnnagtnn gccagttcca aaccnggaaa cgccntcgcn 60
aagnnggngg gnnggnacnn gnaaggcgca nccggnncac cnanccgngg ncccnaggac 120
caggnccgca cccnncangc gncnantgga ccccaaggag ctcnanngcn gcnnacancn 180
annaccgggn ncacannggt agcaagaaga ggggancgnc aagcagnnga aagcagcngg 240
cgaacancaa nccgangnan nannanacag gaacacccga naaggaagcg gacctatanc 300
cnangcccac aaganaaaga caccangnnc catgcttacc anagggaggc aagcnnaatn 360
gacanccnac ngcanngaac ctgnacacgc ggatggacac ccngcgcgng nngngaatag 420
acggacggac agncaactan gcccaaaang canngccaan ggnngnnccg ccaacngggn 480
acagtgaaca agngcnattg nggnngngcn ggannacacc ancatcnnaa nggcannagn 540
aagcaccgnc nagnncngga cannanagcc ctgcnangng ancnccnaac cangaacana 600
nnanggnacn angaannnan caaccnnnnn ggggaanaaa acccanccac gangaacaan 660
ngnacccngg accgtnggcc cananaaaac gngncncnaa ggncacgant cncanancgn 720
gggcccnnna cnaagcncnc catcnanang ngnnaagctc cgnggcgagc ananggana 780
cnacacccac gnnnngacac ggaaaaccac cgncagaaac cnnacgngan cncccanang 840
nggncancna ancaanagng cccncncccc 870

<210> 5086
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(870)
<223> n = A,T,C or G

<400> 5086
gagaagngna ntnncggana gnnnnagtnn gccagttcca aaccnggaaa cgccntcgcn 60
aagnnggngg gnnggnacnn gnaaggcgca nccggnncac cnanccgngg ncccnaggac 120
caggnccgca cccnncangc gncnantgga ccccaaggag ctcnanngcn gcnnacancn 180
annaccgggn ncacannggt agcaagaaga ggggancgnc aagcagnnga aagcagcngg 240
cgaacancaa nccgangnan nannanacag gaacacccga naaggaagcg gacctatanc 300
cnangcccac aaganaaaga caccangnnc catgcttacc anagggaggc aagcnnaatn 360
gacanccnac ngcanngaac ctgnacacgc ggatggacac ccngcgcgng nngngaatag 420
acggacggac agncaactan gcccaaaang canngccaan ggnngnnccg ccaacngggn 480
acagtgaaca agngcnattg nggnngngcn ggannacacc ancatcnnaa nggcannagn 540
aagcaccgnc nagnncngga cannanagcc ctgcnangng ancnccnaac cangaacana 600
nnanggnacn angaannnan caaccnnnnn ggggaanaaa acccanccac gangaacaan 660
ngnacccngg accgtnggcc cananaaaac gngncncnaa ggncacgant cncanancgn 720
gggcccnnna cnaagcncnc catcnanang ngnnaagctc cgnggcgagc ananggana 780
cnacacccac gnnnngacac ggaaaaccac cgncagaaac cnnacgngan cncccanang 840

nggncancna ancaanagng cccncncccc 870

<210> 5087
<211> 759
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(759)
<223> n = A,T,C or G

<400> 5087
agagnnntnn ntntttgaat cctaatggct ggctacttgt tctttntnca ggatcccatg 60
cgattcgaat tcggcacgca ggggcgnccc atcttgtggn tcantnncta tgcctnctcc 120
cntgaccacc cgacagacgt ggactacang gtcatgntca cngntancga attctacacc 180
angctgatng gctttgacaa nntccnnctn tancagttgt ncaaatccac tatnncngcn 240
aactcgaggg tcangccnaa cngtaacnat ggccagtgag ggnacctacg caactgnact 300
ccganngttg tatggagaaa ctggtagacn tcaaagactg cctntccgct tngtggtncc 360
ngcnacagag gangangtcc tacgtgnntg agggtncnnc cnttggggtt atnnnnancgn 420
antaggnnta ncnctggacn ganctggagg cgcatgacan cacatgatgc tttntgaggg 480
cctgaagatn atcntgancn acangtgtcc ngtgangccc tgtgantnca ttatcatgta 540
gatttaggtn gangaatgnc ctgggacana tgtttgtaca tagnggccac ctatganttn 600
acagantatc tcataactna tcagattgct tnacngtctg ggnancnaac tcactcattg 660
gnaannтctt gcatgctatn cccaatgggt ggatngcctt nancttaaan ataangntgn 720
tttttatcaa nngggcanan aaaccgtnnt annngggtn 759

<210> 5088
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(738)
<223> n = A,T,C or G

<400> 5088
gaattgctct gtgtttttgc aggatccatc gattcggnag tgngnagagg cnccacacnt 60
ntgngataaa tgcactnnan nnctncngcc ttgaanttcn nnaggggtca nnnctnctac 120
tcacnggnag gngngccnna agananctgt gggtnctgnt ggatnaannn gtnattgacn 180
gccctggnct ggntcaaaac ncnnccctag tcntcangct ncagggtnag gnacanacng 240
aatntacntc tcctntgnga ggnatcntac tattncgtna tggnnancnt aatgctccac 300
annaangtgc ngtngactca cgctgctacg actctcgaga cnnttcntag aagatcattg 360
tcntctntac cncnntngga acttnaacta tgtattgana naaccttgag gatgctatgt 420
ggccacagat tccntattca atggaaaacg nccnnctaca ttatgcangg gnnnctttct 480
gaatcgtgtn gcacntcntt catggggctc naatnngccg cttnaancnc aaatattggg 540
cgcttgcacn gctttgacan tgtgtaannt ctnngtntgc nangctatac ttggacccat 600
ttgccctgta tgngcccttn gcaatggntt cntttcnaag tataactacn ancttncaaa 660
tggncaaggt cctgatnnnt nccattttgc naacgtgctc atttnaanac tgactgnaan 720
cgtttttgac aaaanaat 738

<210> 5089
<211> 856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(856)
<223> n = A,T,C or G

<400> 5089
gngnagnnnn nnnnnnngnn nngnnnnnnn nnngnnngtt tntnatanca ngctcttgtt 60
ctttttgcag ggatcccatc gattcgaant canctcganc atggannncc tcncctcagc 120
antcnnatgn gcnncctngg cnagntcacn nttgctgctt nagnnnttnc tgtcnntncn 180
aattntgnaa ngncttnaat gtgnnannaa tcaggaaaat gctncntnca annctttagn 240
nttnnaaccn tccatattct taacatntgn gacatnccat gggatgcnat taatattcaa 300
ggnttttatn cggtactnaa aaatanacac ttctaccngt caangttcng aaanancgat 360
catncgcntg aancatngna tgtnnatanc aacctntgaa nagntnctca tttncacctg 420
aaatcatggc actnatagca acctttntan aaggctataa aaanggactt gaatgtncna 480
attgcccaag aagagcgcta cccttcggga aggggaancc tgaatgttgc aaccactggg 540
gataataant acccttattg tcaagaaaat ggcattgggg ggcacattca tntgaatttn 600
ggacctggng actccttacc gaaattccca nccaggttcc acnaatggna atttgaagnc 660
ccgtttgnct nttcgnggac cagtggggaa aagcaattaa aaggccaaaa tccttccnaa 720
acctttntca agggttttna gnaaagtncc cacatggttt nnnaaaggct ttaaggactt 780
gcnnttggga aangggnaaa aaccntttaa attgtaaggc ccaanggatt ccggaatacc 840
gccngtacaa taaaaa 856

<210> 5090
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n = A,T,C or G

<400> 5090
ggntttnnat cagctcttgt tctttttgca ggatcccatc gattngaatt cggcacgaga 60
gaaaatcagg gatgtattag gaaagtaaca gtctctcatc aagaagccct ggctcaggna 120
tatgaatatc agtactgtgg agaggcccta tggatgccat gaatgtggaa aaacttttgg 180
tcgacgcttt tccctggtgt tacaccagag gactcatact ggacagaaac catatgcatg 240
taaggaatgt ggcaaaacct ttagccagat tncaaacctt gtgaaacacc aaatgatnca 300
tactggaaag anaccccatg agtgtgacga ctgcattcag acnttcagtt nccttcatg 360
gnttantgaa cnccnantaa cgcncactgn ggngaancct tangnatgta ctgagtgngg 420
aaaggccttt anccgagcct acaacctcac tnggcntcag anaannncaca tntgagggaa 480
acactatnta tgtanganat gnggnnnnnc ntttannact ggctnagaac tcnntngccn 540
cnanattaca catactgaag nnanaccttn nngatncatn gnatgtgnga aaggcattnt 600
gccgtttctt gcaccttact ccnangtcat ancntnccta caactcaaaa ccccntnttg 660
aatggtgcng aatntagaga aagnctttтc gnnggaatct cnttncttnt nnaaannatt 720
c 721

<210> 5091
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

<400> 5091
gagnntttnn ccncnngaaa gcccttctga aatngcttgg gnaggtcgnn ctnncncnca 60
ngcagcnana ngcgntggcg aattcngcac gcaggcaana ctttttcctg gggcaggggn 120
gtcagcnatt attnaattgg attattncta agttngctan ntgggncann tgtgnngagn 180
agggagnntn cctgccacnt nttctgntnc ccnncttctg cccacacatg cagcatccaa 240
agtccattna ntnaatgaat ggacanagtg ccgagcanac nggggcnnaa ncangnncnc 300
agtcnacgca tccngnntcn taggnaaagt ggtgaccgnt cncggnggga cntgccnaan 360
ccctgnnaca cagncggnca cnntnnangg acnngcannc ctnggatgtg cctcaggaaa 420
aacagggcna gccttcnagn nccgnatacg agtnncnggc cttananncn anaacaangg 480
cnctnacttg cngcatgctt cactattctt tnaggcacat atatnttntc ttattagntc 540
ctcncatccc atgagggacn cagtggctna tgcctgggaa ancngncctt nngnangtca 600
aagngggagg attgctcnac ctaggaannc aagaccacgc tgggcgnnat antgngaacc 660
cancggtacg acttgaagaa aaatatccta ancncngcct tactaacttt agngngcnca 720
attacgtaag anccanacgg atcagtttca aatnagggnn 760

<210> 5092
<211> 766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(766)
<223> n = A,T,C or G

<400> 5092
nnnnnnnntt nnnnnnnnnn tnnttttnan nnnnnntttt naataattgc tattgttctt 60
tttgcaggat cccatcgatt cgaattcggc acgagcccag ccccacccca gccccaaagg 120
aggctgttcg agagggacgt cctccggagc caaccccagc caaacggaag aggcgctcta 180
gcagttccag ttccagctcc tcctcttcat cttcctcctc ctcctcctcc tcctcttctt 240
cctcctcctc ttcctcttct tcttcttcct cctcatcttc ctcctcctcg tcgtcttcct 300
ccccttcccc tgctaagcct ggccctcagg ccttgcccaa acctgcaagc cccaagaagc 360
caccccctgg cgagcggagg tcccgcagcc cccggaagcc aatagactcc ctcagggact 420
ctcggtccct cagctactcg cctgtggagc gtcgccgtcc ctcgccccag ccctcaccac 480
gggaccagca gagcagcagc agtgagcggg gttcccggag aggccagcgt ggggacagcc 540
gttccccagc cacaagcgca ggagggagac acctagccct cggccatgag acaccgntcc 600
tccaggtctt cataaattgt ctttgggggа ttccaccaca cccaatgctc tggagccaca 660
aggagtgtnc cttnttccca cagaccgtgg ganggtcctt gctgctttct ttgaacttgg 720
cagccttgga tgganggctc ctttncctcc ctttttttтt ttttgt 766

<210> 5093
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(851)
<223> n = A,T,C or G

<400> 5093
gagaagannn nnnnnnagaa agnnnnnnnn naggnaggtt ctaaatnctt ggctatcgan 60
ctctnagcag gagcccatcg attcgaattc ggcacgaggc gggcgctagg cgcgcgcacc 120
cagcactngg tcccagncga nanatctggg gcagcgcgcg gtggaagctg cgngcngann 180
ggancanttc tggctcacga ccttgacgct agcgcgnnta tcangnggaa accncgnnnc 240
cacnnnaaca aaaagntggc tggatgtggt gncncncata cctggaatcc cagcnnctnt 300

agcggcnnaa gcatcagaat cacntgaacc canaacacag gncgcnctga nccaagattg 360
tgcccctgca ttctagcctg ggtgacagtg anacnggctc aaaaagataa aggtgtacag 420
ggantgtata ttcagacaac ntggtatgga agatgtgcta cnnctantgn nccangctga 480
tactaagtna acactcnnta cnatanagan ggagatntgg gacncatagg actgnggnca 540
tnttaattan ttcangantg ttttccacna gcnnttaact ggatttcaca ttanagaaac 600
ntttncaagg accctnnaac gggtaaattn ccaacggann nctccaaatg taccaatttt 660
antgccccga atngggaaaa ttncnacang nccctttnnc anggtatgna canagnactt 720
ttaantnacc cnccantcaa cctnnnacca nttnntttan tccangncan nctaccagtt 780
gtncnaccac aaagntttnn aagncccatt nnnnttngtn aatnnnnggg nnaaacccnn 840
nnacaaattc n 851

<210> 5094
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

<400> 5094
ctcttgttct ttttgcagga tcccatcgat tcgaattcgg cacgagattg gattgccaca 60
cggctcacat tgcatgcaag tttgctgagc tgaaggaaaa gattgatcgc cgttctggta 120
aaaggctgga agatggccct aaattcttga agtctggtga tgctgccatt gttgatatgg 180
ttcctggcaa gcccatgtgt gttgagagct tctcagacta tccacctttg ggtcgctttg 240
ctgttcgtga tatgagacag acagttgcgg tgggtgtcat caaagcagtg gacaagaagg 300
ctgctggagc tggcaaggtc accaagtctg cccagaaagc tcagaaggct aaatgaatat 360
tatccctaat acctgccacc ccactcttaa tcagtggtgg aagaacggtc tcagaactgt 420
ttgtttcaat tggccattta agtttagtag taaaagactg gttaatgata acaatgcatc 480
gtaaaacctt cagaaggaaa ggagaatgtt ttgtggacca ctttggtttt ctttttgcg 540
tgtggcagtt ttaaagttat tagtttttaa aatcagtctt tttaatggaa acaacttgac 600
caaaaatttg tcacagaatt ttgagaccca ttaaaaaagt taaatgagaa aaaaaannnn 660
nnnnnnnnaa aaaaaactca gcctntaaaa ctntnnngag gcnttttcct anatcccacn 720
tgataaganc t 731

<210> 5095
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

<400> 5095
gnntttnnnn nnnnnnnttt taagnaattt gcnactcgtt ctttttgcag ggatcccatc 60
gattcgaatt cggcacgagg attacatagt gacatatatt agcttttcgt ccacatttga 120
taacattgct aatatttttct ttttttttta ctgaactctt tgaatttaaa gttttctctc 180
atttaaattt attaattaaa aacatacctt tactctgttc cctttagcat ttcaacctga 240
tgttaaaaga tgtgtatgtg tgatatgtgt gtttgaaatt ttaactttca tcttggagta 300
tttaattctc tgaagcagtg catgactctt gctcttcagc ctcttgagag tgtccctggt 360
ttatattcct gatgatacaa accctggaat ttcttgtctg aagtgtnaac actttatttc 420
caggtcctaa tttgatttga atagtggaag ttcagattca atgcattaat gacagattct 480
atgttgcttc ttcagatttg ccagacagaa aaacctactt atgtgaggaa atcattaggc 540

ttttgacta tcctctttgt ataatgagac tcttttctca ttagatgagt aaaaagatcc 600
agagatgatc accagtatcc cccagaattc atatatattt aattgaaaag aaacaaatnc 660
tgggattctt tnctaaaaan ggtggattac atttcttgnc tgnntgnaca tctttgnnta 720
acgngaagaa aaataaaaat attnattttc caccc 755

<210> 5096
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(777)
<223> n = A,T,C or G

<400> 5096
gnnnnnnnnc tttnaaatcg cttggcnttt tgcaggatcc ctcgattcga attcggcacg 60
agagcggnnt ttntnntgnn tgccnctcat ttgtngnann nantngactt natatntnng 120
atgatnnann nangtangnt atgagnnatn cacatnnnat tnangntgna nnatattcna 180
aggnannann tncncagacn ntggntggnn acntntcana tngtttagac tnngncaaag 240
gnnangtnac aacggatnng accncaccta nactgagann acctggancc tcagnatcna 300
tcnggnaatc gctcacnnag tatacttnca ncagnanntn taaccttaga tactcgatct 360
taaacttgnn tatccantnt aaaaacngtc ntttcngacg gntgtntnnc atcaancagn 420
nnatctnnaa atctgnncan aggancgntt ttaaactcat nnctggaatc ctcagatnna 480
ggacccatnc angnaggnnt gancntgnnt gccctgtnag cacgnanttc canntgngtn 540
aactctcaca atgngtttna agaacncnaa aggctggccc ntgntcntat gagtgattct 600
ccctncttat ctngggngnc ncnattnaat ctttggaaac cnaannttcn ntaatggttn 660
cccactggtt nggaaccaat tngaactgca ccttccngtn cctttantng nggcaaacca 720
aancatncnt tancattcca tttgaccctn ntttttttacn ttaanacnan ccttgac 777

<210> 5097
<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 5097
aggnntnnnt ttgnnnctaa tggctggcta cttgttcttt ttgcaggacc catcgattcg 60
antgangctc nagcaggccn catgagatcn cctgctnggn ncnttgnnnt ctnatggcca 120
ctgntatcnn agccntgnnc tgaaggtgca ngctcacgcg ncggaggtcc nttgagaccc 180
agnctgcttc natancagtc cggtcnctca nanctcccac tggtanacnn ncatgtagnc 240
actgntgcag ctgactgcng nancnncntn tgtggncaca ntaagattcg ccgngccttg 300
cntgannann tactnntnat atcnatgant gctgnctgan nagaactngc nnntcnatgn 360
ggactgtctt cagnacccta tatggcntcc ntggntctgt tnccgnngac natttngcga 420
cngtnaatgt gccncattgt gctctnatgc cattcnatac tagattccac agaaggagac 480
cntgcgatnt gcttaaatan tgctgntgaa nagctnntac cgaatcnnna nagttcataa 540
aacgcctcct naggcagant ctgtnatcnt cngtagcatc ccnaatanga tcgatatgct 600
aacntacaac tgatgncctg ngantaatca anntcttnat ttantatcaa tgaaatgctg 660
ctcctggaac ttaacctgga atggtgcagc tncaagcttn gtcgncgctt cncancttgg 720
tncccgattt ccnggccact tanncentttt gaaanttccc t 761

<210> 5098

<211> 761
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(761)
<223> n = A,T,C or G

<400> 5098
aggnntnnnt ttgnnnctaa tggctggcta cttgttcttt ttgcaggacc catcgattcg 60
antgangctc nagcaggccn catgagatcn cctgctnggn ncnttgnnnt ctnatggcca 120
ctgntatcnn agccntgnnc tgaaggtgca ngctcacgcg ncggaggtcc nttgagaccc 180
agnctgcttc natancagtc cggtcnctca nanctcccac tggtanacnn ncatgtagnc 240
actgntgcag ctgactgcng nancnnncntn tgtggncaca ntaagattcg ccgngccttg 300
cntgannann tactnntnat atcnatgant gctgnctgan nagaactngc nnntcnatgn 360
ggactgtctt cagnacccta tatggcntcc ntggntctgt tnccgnngac natttngcga 420
cngtnaatgt gccncattgt gctctnatgc cattcnatac tagattccac agaaggagac 480
cntgcgatnt gcttaaatan tgctgntgaa nagctnntac cgaatcnnna nagttcataa 540
aacgcctcct naggcagant ctgtnatcnt cngtagcatc ccnaatanga tcgatatgct 600
aacntacaac tgatgncctg ngantaatca anntcttnat ttantatcaa tgaaatgctg 660
ctcctggaac ttaacctgga atggtgcagc tncaagcttn gtcgncgctt cncancttgg 720
tncccgattt ccnggccact tannccnttt gaaanttccc t 761

<210> 5099
<211> 781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(781)
<223> n = A,T,C or G

<400> 5099
gngntgnnnn nttnnnngnn agnnnnnnnn ngnnngcttt ttagatcagc tcttgttctt 60
tttgcaggat cccatcgatt cgaattcggc acgaggaaat gacaagatcc cacaaaagtg 120
ctgcagatga ttacaataga attggttctt cattatatgc tttaggaact caggattcta 180
cagatatatg caagtttttt ctcaaagttt cagaactgtt cgataaaaca agaaaaatag 240
aagcacgagt gtctgctgat gaagacctca aactttctga tcttttaaaa tattacttaa 300
gagaatctca agctgctaag gatctcctgt atcgaaggtc tanggtcact agtggattat 360
gaaaatgcta ataagcactg gataaagcan gagcanaaaa tcaagatgtt ctacaggccg 420
aacttcccaa caattatgtt gtcagaaatt tgaaaaaata tctgagtctg caaaacaaga 480
acttatagat tttaagacaa gaagagttgc tgcattcaga aaaaattagt ggaactggca 540
gagttagaac tgaagcatgc aaagggtaat ctacagttgc tgcagaactg cctggcagtg 600
ttaaatggag acacattaag ccacacttcc gnctttctgg ttaaaaangg ctggcctttc 660
cttcaaattt tatttttggn tttcttaaat ggatggttaa gccttttatg cctcactggg 720
aaaccaaacc aaaaagccac ttggaaaaag gtgccntnaa cttcctcttt tttctggaag 780
a 781

<210> 5100
<211> 797
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(797)
<223> n = A,T,C or G

<400> 5100
ttacnatnan tgtgcttgan ggcttggncc naaananatt ggctntggcg aattcggcac 60
gaggtgagaa ggttaggtcc ggctcagact gaataagaag agataaaatt tgccttaaaa 120
cttacctggc agtggctttg ctgcacggtc tgaaaccacc tgttcccacc ctcttgaccg 180
aaatttcctt gtgacacaga gaagggcaaa ggtctgagcc cagagttgac ggagggagta 240
tttcagggtt cacttcaggg gctcccaaag cgacaagatc gttagggaga gaggcccagg 300
gtggggactg ggaatttaag gagagctggg aacggatccc ttaggttcag gaagcttctg 360
tgcaagctgc gaggatggct tgggccgaag ggttgctctg cccgccgcgc tagctgtgag 420
ctgagcaaag ccctgggctc acagcacccc aaaagcctgt ggcttcagtc ctgcgtctgc 480
accacacatt caaaaggatc gttttgtttt gtttttaaag aaaggtgaga ttggcttggt 540
tcttcatgag cacatttgat atagctcttt ttctgttttt ccttgctcat ttcgttttgg 600
ggaagaaatc tgtactgtat tgggattgta nagaacatct ctgcactcaa gacagtttac 660
anaaatnaat gttttttttg ctttttcaaa aacaaaaann tcntaaaaaa cctcgagccc 720
ttttanaacn tattantgag tccgtattta ccttanaatc cagaccctga ttangatcca 780
tttgntnaag nnttgct 797

<210> 5101
<211> 752
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(752)
<223> n = A,T,C or G

<400> 5101
gnnnttnaan ngctggctct tgttcttttt gcaggatccc atcgattcgc gaaggggaag 60
aacagatcct ctgaaatttc aaatngaaag aaaagatatg ttagaaagga gaaaagtact 120
ccacattcca gagttctatg ttggaagtat tcttcgtgtt actacagctg acccatatgc 180
cagtggaaaa atcagccagt ttctggggat ttgcattcag agatcaggaa gaggacttgg 240
agctactttc atccttagga atgttatcga aggacaaggt gtcgagattt gctttgaact 300
ttataatcct cgggtccagg agattcaggt ggtcaaatta gagaaacggc tggatgatag 360
cttgctatac ttacgagatg cccttcctga atatagcact tttgatgtga atatgaagcc 420
agtagtacaa gagcctaacc aaaaagttcc tgttaatgag ctgaaagtaa aaatgaagcc 480
taagccctgg tctaaacgct gggaacgtcc aaattttaat attaaaggaa tcagatttga 540
tctttgntta actgaacagc aaatgaaaga agctcagaag tggaatcagc catggcttga 600
atttgatatg atgagggaat atgatcttca aaaattgaag ctgcaatatg gaaggaaatt 660
gaaaccgtca aaaangtctt gattcttgag aatgaatttg ggtagttgca gaagatccat 720
tggctcttaa gangatatat tttgagancc at 752

<210> 5102
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(742)
<223> n = A,T,C or G

<400> 5102

agagnnnnnn ttttatctct aatgctggct acttgttctt tttgcangat cccatcgatt 60
cgaattcggc acgaggttgc ctgcggcgtc cacttccttg gccgcccttg ctacactggc 120
tgattgttgt gcagccggcg ccatgtctgt gagcgagatc ttcgtggagc tgcagggctt 180
tttggctgcc gagcaggaca tccgagagga aatcagaaaa gttgtacaga gtttagaaca 240
aacagctcga gagattttaa ctctactgca aggggtccat cagggtgctg ggtttcagga 300
cattccaaag aggtgtttga aagctcgaga acattttggt acagtaaaaa cacatctaac 360
atctttgaag accaaatttc ctgctgaaca gtattacaga tttcatgagc actggaggtt 420
tgtgttgcag cgcttggtct tcttggcagc atttgttgtg tatttggaaa cagaaacact 480
agtgactcga gaagcagtta cagaaattct tggcattgac cagatcggga gaaaggattt 540
catctggatg tagaagatta tctctcagga gttctaattc ttgccagtga actgtcgagg 600
ctgtctgtca acagcgtgac tgctggagac tactcccgac ccttcacatc tncaccttca 660
tcaatgagct ggattccngg tttcgccttc tcaactgnaa aatgactccc tgaggaaccg 720
ctacgacnga ttgaaattga cn 742

<210> 5103
<211> 1245
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1245)
<223> n = A,T,C or G

<400> 5103
gcntnccttt gcatacctaa nagctggtng ttctttttgc aggatcccat cgattcgctc 60
tgtgattcag agcccttagt tgagagcccc tgccgccccc gccacccccc tgccccgctc 120
ccaccattgc ccctcctcag ctgtgcaagg agaaagcatg cttaggaagt tttcaggtcc 180
ttgtgataaa acctccttaa atctgttcag accaagcaat gcgagcttcc tctcctgtcc 240
catgttggaa gttgctctga aggggtggta gatgctggaa gccagacaca accctgcgta 300
cgctgctcag ttggtggaga ctggggctgg gactggagtc agcccagctg ggaggagggg 360
ctggggagga tctgnannng cangcccnan nnatcntntg cntntccctc nctccnctct 420
tnntttattc antccttnnc cctctnncat ttnnatnnnt nnactccctt nnactcnttc 480
nnccantctn tatctccnca tnntccttct ctcctannta nnntcacnct cnanctctct 540
tntacttncn atcacnntca ccttctcntc tctannctc atcncactcn tntnnnccna 600
tccnctcncc ccttnaccnn ntnacttana cctcccnatc tctnnatntt canctntnta 660
tctacactct ctntccntct catctacann tnnatatcnc nnccatnana cactcctntc 720
tctcacnctc ncncannttc actcttactn ntactnntnn nctnanacta cncacacttn 780
tctattnctc tnctnnactc tnctatncta ctctcctnct cttatcntcc tctcncnnca 840
ttnctacttc tcatctccac tntcncanct ncctcntctt cntctntanc ctctccncnt 900
ancattcttc tttcattnnn acnccntcat cnnttanccn ctatctnttc tnctntccnc 960
tctnnccncc cncactctcn ccatcnccnn ncnctntcna cannntctct cctcccntac 1020
ctccacnnnc tctcccncct ctcatatact cttctcanat atctcttnnn atncntcacc 1080
tcncacnana cntcaatncn ncttacctta nnccntnnan ccatnctnac cctctctact 1140
cttnnacnta ttctcncatt ctnccttcac ttatctntat tntctctntn tcnccntant 1200
ctcncncttt ctcatctccc tnnctcacat cactctacnt nctct 1245

<210> 5104
<211> 1701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1701)
<223> n = A,T,C or G

<400> 5104
cnggnnacct tctaattgtt cttcntggcg gncttnaaaa attgngcttg tngggccncc 60
tttaaacnnc ntgaaattat ggcggncttt ggggggggatg anattatgnn gtnctnttgg 120
ggggctnann ttnatggtct cccntnnnnn actcnatgnt ctntcctaan atntcnnntg 180
ntnctccttt cgcngcntta tctnntgtca ntntcntnnt cncctcttnn ctcatccant 240
ntnttacatc tcctctgncg angcnctcan nnannncncg cnncnnnaca tatacctntc 300
tttcnncctc atnnacntat acnnntctcn ctcnccatan acctctttnn anctactcnt 360
nttatccnct ctcctactct ctccgtcncn ngttcncann tatcatatac ccncctgcta 420
tcgtccctct tcanncttct gcnaccctct ctnacctntc tccctnccnt ngcctanttc 480
atcatnctat cccntctnnc atcccatcna canttctacc actcccanca cccccttcct 540
antctccntc ctntcnaatc tnnnnnnttn atatctnant cncntctccn cctatcntct 600
ttctcctntc nctntnccac cncccccnctn atntcncntt cnncctnnnt cngtntccna 660
cccccttnat ccctacacac ctctnncnnn acntctcgnn tttcctctnt cntctntaac 720
atccactnca nctatctttn atctannctc tanctcancc ncctnnccat actatccata 780
nccanantnn ttcaanntct ccnaccnctc ctcnncactc tnttatctct ctnngnnctc 840
tncncntctc tntcactcta nattcttata ctntttcnta ctacctntcc nctctatnac 900
tnnnctactc acnnntnctn atctctctct cctcntanac tcnctcactc cttatanatc 960
ttcnatncta tcacactann ctncncctnt cntactnata tcttnntntt ntctctcaca 1020
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attccntctc tctcctcntn cntctctntc tcctctntct ntcatnanac ancactnact 1140
ctncatctnt ctctctatnn ntntccntca ctcacattct ntncacnncc anttnccnct 1200
cnccgtatct ctanntctcn acntctctct actnctntnt ctcncatccc actctatnat 1260
acntcncncc tatttnccnt actctctcta catacnnctc tctnctttc cactctctct 1320
ctctctctcn aanttncncc tctnctnttn ntcatntctc cnctcaacct ntatcnctcn 1380
anatcnncta nnctagtctc tctntannca ttctcntatc cnnnntcnat ntcacacanc 1440
nnataactnt ctncatcact cctcactctc tntatnctct ctctcntnta tactctctct 1500
acntntcnnt ntcatccana cacattnttc atnctatatn ntccncncnc tctcctctct 1560
cttntcatac atctacncac ctatcctntc cactctctcn tctcatnctc ncncatctnt 1620
ctacnnatcn ctctctnnta ncnatnctnn ctctncacat atctcactct cactcatctn 1680
tctnnctcnc nccntctccc t 1701

<210> 5105
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(756)
<223> n = A,T,C or G

<400> 5105
agagnnnnnn nnttnttctt tgcttantgg cttgggctcc tngttctttn tccaggnagc 60
ccatgcgatt cgaattcggn acgaggtgtn aaagngaact tttaagggag gttcctgctg 120
tnccagaaac ccttcaagaa aaagcgaagg nntttctcag agctgaagat caagcgcctg 180
agaaanaagt ttgcccaaaa gatgcttcta naggctagga ggaagcttat ctatgaaaaa 240
gcanancnct atcacaaggc atatnggcng atntacagaa ctgnaattcg aatggcgagg 300
atggcaanaa aagctggcag ctcntatgna cctgcanaac cnaanttggc gtttgtcatc 360
agaatcagag gtatcaatgc gagtgagccc aaaggttcga anggtgttgc agcttcttcg 420
ccttngtnaa atcttcaatg gaacctttgn nnngctcaac atggcttnta ttaacatgct 480
gangattgta gagccatata ttgcatnggg gtaccccaat ctgaantcag tncntgaact 540
aatctcaaac gtggnnatgg caaattcaat annaagccga attgcttnnn cagataacgc 600
tttgatngct cnatctcttg gtcaatacgg catcatntgc atggangatn tggttcatga 660
aaactatact ggtgnnaaac gcttcaaaga ngccaattac ttcctgtggn ccctcaaatt 720
gnnttntcca cnantgggaa tgaagaaaan gacccc 756

<210> 5106
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(748)
<223> n = A,T,C or G

<400> 5106
agagnnnnnn tttttgtctc taatggctgg ctacttgttc tttntgcagg atcccatgcg 60
attcgaatgc ngcncgaggc nttagttgct nnttgaaaag ggaactgcac ntgatcnnat 120
catggaanga tagctncact ncttnccgac cttggtcaca ggccgncatg agganggact 180
gttccantgc tncngnggcc nctgncntgn tnctcatcac tggncttagc tttggagtac 240
ncaactccaa gtggcccgag tctagactct atcaaatncc acactgatag caacaatgan 300
tgcatctgat gtgtgctgct ggcnatctta agcccaaaat gcttcaaaga tnaaacagnc 360
atatacattn aagatacata tanaaatngt nnaattngaa tgtatacaan ntagattacc 420
ctaacgaact tcactacaag aaatncatct tatatccnng cacnnaaatg tgganntnta 480
catgaaagga tataccgttt nanaaaccac atnccatntc taaatgctga ntgagaaggc 540
ntggactact aaacctggat tactgatnaa atttcaaaan gancttgatt ttgctagcag 600
aaatcnttac ccngttctcn agcttctata ancagttctt gaagggatta nacagctggt 660
cctctntcca aattctggat taatttcagc tgtgtatttc cnannnaatc tttcagcctc 720
tagaactata tgagtcggnt tacgtann 748

<210> 5107
<211> 674
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(674)
<223> n = A,T,C or G

<400> 5107
gttttctcct gttacatcat gctgaatcct ttcccttagc cattagcttt tattatgtgg 60
tcttcatagg aaagccaccc tggtgccaag cctagcttgt ggggaggggt atgtgttcca 120
gaaactgctc tttgtgttcc cttcaatgag gaaacaacat gtgtctactt atgtggcatc 180
caactgcttg gagctccaca cttccctttc gcgactcagg ctctggtgct gttgccaaat 240
ccttgcttgg caaagactgt tcgatcatgt ggggtcctta tttacaaggg aaagctgggc 300
cagaaggcta gcaattcagg tgttaccgct attgctgtac cttgtgttag gacattgtgt 360
ttgtgcatgg actgtgcctc caaactcagt agttccgtat ctaaatataa agtantgtta 420
gaaacctgaa agtacagaat ctcaacctta cnagtctttc ccttagtcct gtggccttcc 480
taagccagct gttaaccgtg ttgattcctt ccacttcccc caaagtaagg caggcaacag 540
atatgttgat tgtcttagaa agtaatctgg ttcctctgaa ctccattgaa ttccagtttg 600
acgcatactg cctggaacca gactgtttgc ttacagcttt ttaaagaaaa atctgncttg 660
gtcctgnccc cant 674

<210> 5108
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(589)
<223> n = A,T,C or G

<400> 5108
attgaggaag atctaggtaa aacctttaag ttaaccttct aagtctcaga cacgtaaacc 60
caagtgtggc aaaggaactc attgctctcg aaatgcatat atgttggttt atagactgca 120
aactcaagaa aagcccaaca ctactgttca agttccagcc tttcttcaag agctggtaka 180
tcgggataat tccaaatttg aggagtggtg tattgaaatg gctgagatgc gtacaaagat 240
gtggataaag gaaaagcaaa acacgaagag gttaaggagc tgtaccaaag gttacctgct 300
ggagctggtc tgtaagatat tctgggacag cactgttgcc attaagtgcc ttgtttttt 360
atgttcacaa atgtatatga agaaactttc tcaaacttac tctttctaat aacccactaa 420
agccagctta aacactctaa aagtactttg taaaccaaca ataacttgat gtgtagcatt 480
ccatattatt tccattacgt tgtactccta aaatggggag ctgttaatna attataacct 540
ttagggtcag cactctgcat ccctggagta ttgttggtnt ttatatttt 589

<210> 5109
<211> 660
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(660)
<223> n = A,T,C or G

<400> 5109
aagggaagga ggctgctggg tagcaaataa gccccttctt ttcttggtga gttgatgacc 60
tccaatagct cccagtgkca ygrgkaccca gtacgcatta gctggtgttg ggttgattga 120
gacctggggc agttcctggg gcaagaascc agatgggaga tgagatagaa agtgttagga 180
gttatcctct ttgcctggcc tttgagaata acttactgtg tgactttggg caagttcctt 240
ccccactctg ggcctcagtt tctcacttgg gaaagcaagg agtttgacca gatgatcaca 300
atgggccttc ctagctctgg ccaccaagaa tttgtgaaca ttagagctcc tggtctggtg 360
ggtagagcca gagctgctga ctggtctctc tgcctccaga ggggatttat tggacctcag 420
aggtggcagg gccctatgga gcaccaactg ccctcaaccc caccctgtgc ccaagactgg 480
gaagggattg atgtcaggct gtggccatag gtagcatgag ttgcccaagg agggacagag 540
catatctttg ctgaggcttg gctgaggggc ttatgatagg gcttgcagta cctcacagcc 600
ccctgtgggc acagncaccc tgaggtttac ccaggcaaat atattgatta gcaggaaaaa 660

<210> 5110
<211> 615
<212> DNA
<213> Homo sapiens

<400> 5110
ccatagcctg ttgagtgttc ccagatgtga ctcacctttc tgctgccctc ttcatgcagg 60
cctactgact cataakkcac gwkgtcccaa aagccacccc acaagcctga gccaacctgc 120
tgcctgacgc cacagtcatt ggcagaggtc tgggcattat taatytataa aaatccatgc 180
tttacacctg gacagtasac agggacttca gagattgcac gttkgaatac attctcccaa 240
gactgaggtt gttcggtttt aattcctgta gtccaatcac acaatttctt atggaaaacc 300
ttttgtgttt ctggtattta ataacttgaa gggatagcaa aatatactgt gtattcagag 360
ggcctctctg cagctgctag ctcagacacc aaaggggtaa ggcccaggac attcatatct 420
ttaaaagctg caaacctggt aacctttaaa cttttaaaac aaatgtcata tggggtaaca 480
ctgacctttt ataatttgat gtctcaaatg tagagattat ctaaaaatcg taacttgaat 540
accttgtaat ttttctctta aaaaagaaga cttgtgtaag tctctgcatc aacgccaata 600
aacatgttgc ttaat 615

<210> 5111
<211> 937
<212> DNA
<213> Homo sapiens

<400> 5111
gtggtggctc acgcctgtaa tcccaaagtg catggattac aggtgtgagt gagccaccgc 60
ggccggcctc tatcattttc tgactcagca gctccaccaa aattgacatc ctagcaaaca 120
ctgtgaagga attaacctaa gtsyttccag agcatctcat gtaacctcta tggagtaagt 180
cacttttttct gtaacatgtg gcttttgacc ttgatgaaga ctttgacttc tcatccctgt 240
ctacatggag gaagatgatt cagtggtggg gaaaatgaac ctcggtaaca tttccaatgt 300
ccttcaagag ggaaacaagt tcagtgttat catcgtggca ttcgttagtt tttttttttt 360
aaatcacktg tttagataca actttatttt tttataccta catagcacat gactgggggg 420
ataaagcatg tataagttgg gagagggtaa agaatgtgtg actatgtata cagaaaatag 480
actaaaatgt gcagcaaaat gatatatact gtaatctggt ttttgaagta tctactattc 540
tggaatattg ttaaacaact ttttgctttt gaaaaaaaaa aggtgccttg attcagttgc 600
gtgacttaga acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg 660
tgtttttggt tgcagtctgg cggctgcagg catagcgtcg gttttgttcc aataacagag 720
accaaagagt taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta 780
atcaccccaa atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgcagg 840
ttggagtaaa tttgcacttt gaatcatgtg ggtcatttgg ggaccttgtt cttttctatt 900
ttgctttatt aataaaggaa cttgtagaaa aaaaaaa 937

<210> 5112
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

<400> 5112
gagacctcta acctcccgca gttgagcaaa tacactctga gagacattag ggactgtggc 60
aaaaagcagg caatccatgt gtgtcactta agccttgagc acagttcagt aggcaacaaa 120
ccaggaactg tcctggcaga taagacagac tgtgmaaggt catcgtcaty ggcatgggaa 180
gggcattaat taccaaagtg gagacasagt cactgtctcc aagagcattt ggaatcactt 240
cacagagttc tcaaggaggg gaaggctatc tgtcagctcc tggcgggact gctgccccat 300
atactgtgat gaattgcttc acatatctga gttctgatgg gaaggagtcc aagtgcggta 360
gctgtagaga acgctgggga agcccagttc tatgtagctc acgtatgaaa ggaatattca 420
tgaagagnaa aacagaggca ttatttgaga ttaactgcct gagaaaccta gtctaatccc 480
aagtgtctag aaaatgttga ctacttgcca tgtgcccagt aaggtgcttg gagctttata 540
tgnatcctct catttaaccc tgtgacatag ttatgctggt anaccttgct gcgttcgtgt 600
acnttgaatg aagttgaagc ttaanggaag gttaaaacnc caacccnaac tga 653

<210> 5113
<211> 559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(559)
<223> n = A,T,C or G

<400> 5113
ggaagaggat gactgggtat gctgtgccac ccttgagggc catgaatcca ctgtgtggag 60
cttgggcttt gacccgagtg gccagcgcct ggcgtcttgt agtgatgacc gtactgtgcg 120
tatckrgcgt cagtawctac caggcaatga acaaggggtg gcatgcagcg gctctgaccc 180
cagttggaaa tgtatctgta ctttgtccgg cttccactca aggaccattt atgacattgc 240
ttggtgtcag ctgacagggg ctctggccac agcttgtggg gatgacgcga tccgctgtkt 300
tcaggaggat cccaactcgg atccacagca gcccaccttc tccctganag cccacttgca 360
tcaggcccat tcccaggatg tcaactgtgt ggcctggaac cccaaggagc cagggctact 420
ggcctcctgc agtgatgatg gggaggtggc cttctggaag tatcagcggc ctgaaggctt 480
cttgaagctn acctcgactt ttggacagag taatggactc cccagaaaac gttcatataa 540
gaattttacc agnccccttg 559

<210> 5114
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(554)
<223> n = A,T,C or G

<400> 5114
gaagagcttc tgcaggggct gagcagaccc cagggcctct tagccaatcc ccgggcctgg 60
tgaagcaggc gaagcagatg gtcggaggcc agcaactacc tgcacttgcc gccaagagtg 120
ggcaatcttt taggtctctc gggaaggccc cagcctccct ccccactgaa gaaaagaagt 180
tggtaaccac agagcaaagt ccctgggccc tgggaaaagc ctcatcacgg gcagggctct 240
ggccmwtagt ggctggacag acactggcac agtcttgctg gtctgctggg agcacacaga 300
cattggcaca gacttgctgg tctcttggaa gagggcaaga ccccaaacca gagcaaaata 360
cacttccagc tcttaaccag gctccttcca gtcacaagtg tgcagaatca gaacagaagt 420
agtaccaatt caatgttcac atgaacaaac aagctgcccc caggggtacc attttgggga 480
gggggaatct ttttttttct tttccccttt aaaaaaaaac acntttgncc cgaacatttt 540
cccattttnt tttt 554

<210> 5115
<211> 477
<212> DNA
<213> Homo sapiens

<400> 5115
gctagactca agctgtctgg agagtgtgaa acaaaagtgt gtgaagagtt gtaactgtgt 60
gactgagctt gatggccaag ttgaaaatct tcatttggat ctgtgctgcc ttgctggtaa 120
ccaggaagac cttagtaagg actctctagg tcctaccaaa tcaagcaaaa ttgaaggagc 180
tggtaccagt atctcagagc ctccgtctcc tatcagtccg tatgcttcag aaagctgtgg 240
aacgctacct cttcctttga gaccttgtgg agaagggtct gaaatggtag gcaaagagaa 300
tagttcccca gagaataaaa actggttgtt gccatggcag ccaaacggaa ggctgagaat 360
ccatctccac gaagtccgtc atcccagaca cccaattcca ggagacagag cggaaagaca 420
ttgccaagcc cgctgcagtc tgcaaaggtc ttcacaaatc agaatcaact ggtaatt 477

<210> 5116
<211> 957
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)...(957)
<223> n = A,T,C or G

<400> 5116
aatgtatttt ttcagtaagc acccagaggc ctccattcag gctgtttttt cagatgccca 60
aatgcatatt tgggcattag aaggtctgtc gcacttagta gcagcatcat ttacagagga 120
tagatttgga gttgtccaga cgacactacc agctatcctt aatactttgt tgacactgca 180
agaggcagtc gacaagtact ttaagcttcc tcatgcttcc agtaaaccac cccggatttc 240
aggaagcctt gtggacactt catataaaac attaagattt gcattcagag catcactgaa 300
aactgccatc tatcgaataa ctactacatt tggtgaacat ctgaatgctg tgcaagcatc 360
tgcagaacat cagaaaagac ttcaacagtt cttggagttc aaagaatagt taagtaatat 420
aaactgtgtt cattacactg ctgatacaac tacagatggg acagtaaatg ttcagcattc 480
ttggatcaga agaaaacgga ctaattagat gcttcctttg tcgtggtggt tgctttgaaa 540
actatacttt aatgggagaa atcatggaaa gaaattctca acagaataac tgaaaactgc 600
cttttctgta ccgattgctt tttgtgtgtg tggtataata aaatctttat tcaattttac 660
agaagcattg atggcagtcc gaaatgtctc tagctcatat aacttaatag taataactaa 720
aaaactttta gaatttactt ttgaaaggag ggaagccagt tctgaaatga gtataggttg 780
atttcatagt ccncctaatt aagagtttag ctcnttggta aactccaaat acataaactt 840
tttaagtgga gttccattta ctggaaggat taaaatgggt acagtgccag ccatattcnc 900
caaaaatatt gtctaccggc ntattttggt aanccgttag gttggggttt tggttcc 957

<210> 5117
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(534)
<223> n = A,T,C or G

<400> 5117
ctttttaag caaagcagtt tctagttaat gtagcatctt ggactttggg gcgtcattct 60
taagcttgtt gtgcccggta accatggtcc tcttgctctg attaaccctt ccttcaatgg 120
gcttcttcac ccagacacca aggtatgaga tggccctgcc aagtgttcgg cctctcctgt 180
taaacaaaaa cattctaaaa gccattgttc ttgcttcatg gacaagaggc agccrgagag 240
agtgccaggg tgccctggtc tgagctggca tccccatgtc ttctgtgtcc gagggcagca 300
tggtttctcg tgcagtgctc agacacagcc tgccctagtc ctaccagctc acagcagcac 360
ctgctctcct tggcagctnt ggccatgaca accccagaga agcagcttca gggaccgagt 420
cagattctgt tttgtctaca tgcctctgcc gggtgccggt attgaggcac ccagggagct 480
gttactggcg tggaaatagg tgatgctgct acctctgctg ctgcactcac agcc 534

<210> 5118
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5118
caytygkcag gggmsagggg acagcaaggt gggaggttga agagctttga ggctcagcag 60
catgtttgtg gcattcggtg gacaccatgg ccttgggcgg ctggacaggt ttttgtgatg 120
tgarggacay gcatggggca catggtaagc ttggcaaggg ctccaggaac gctgacgaag 180
ggttttagga cccccacccc catgcctgta ccagggctgg cctccagagc gggtgaggac 240
agagcagctg tgggcttttc attctgaggt cttggccccc ctggccaccg caagggactc 300

<210> 5119
<211> 598

<212> DNA
<213> Homo sapiens

<400> 5119
tttcagcttt cgttaccagc aggagctgga ggaggaaatc aaggaattat atgagaactt 60
ctgcaagcac aatggtagca agaacgtctt cagcaccttc cgaacccctg cagtgctgtt 120
cacgggcatt gtagctttgt acatagcctc aggcctcact ggcttcatag gtcttgaggt 180
tgtagcccag ttgttcaact gtatggttgg actactgtta atagcactcc tcacctgggg 240
ctacatcagg tattctggtc aatatcgtga gctgggcgga gctattgatt ttggtgccgc 300
atatgtgttg gagcaggctt cttctcatat cggtaattcc actcaggcca ctgtgaggga 360
tgcagttgtt ggaagaccat ccatggataa aaaagctcaa tagcatctta acgtgaagat 420
caaacaagaa cacaacaagc ccctactgat ttctgggttt ctgccacggc cacaggttca 480
tatccagagg aatggcagat ctgagacgat ccaggaagag ctaaaacatg gccctgtaat 540
aaatgagcag acctctcctg tggtttcaaa ttattaaaca cacttccatt tctcttgg 598

<210> 5120
<211> 1416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1416)
<223> n = A,T,C or G

<400> 5120
agtgagtggt cttaccaaaa atccagtatc cttgccatcc ttgccaaatc ccactaaacc 60
aaacaggcgt tccttctgtg cccagtccta gtattcaaag gaaccctact gccagtgctg 120
caccattggg aacaacactt gctgtgcagg ctgttccaac agcacactct attgtacaag 180
ccacaaggac ttctttaccc acagwgggcc catcaggact ctatagtcca tcaactaatc 240
gaggtcctat acagatgaaa attccaattt ctgcatttag tacttcgtct gctgcagaac 300
agarcagmwa taccacccca agaattgaaa accagacaaa caaaacaata gatgcttctg 360
tcagtaagaa agcagctgat agcacatcac agtgtggaaa agccactggc agtgattcaa 420
gtggtgtcat tgatctcaca atggatgatg aagagagtgg agcttcacaa gaccccaaaa 480
aactaaatca cactcctgta tcaaccatga gttcttctca gcctgtgtca cgaccattgc 540
aacccataca accagcaccg cctcttcaac catctggggt gccaacaagt ggaccatctc 600
agaccaccat acacttacta cctacagctc caactaccgt gaatgtaaca catcgtccag 660
taactcaggt gaccacaaga ctccctgtac caagagctcc tgcaaaccac caggtggttt 720
atacaactct tcctgcacca ccangctcag gctcccttgc gaggaactgt tatgcaggct 780
cctgctgttc ggcaggtcaa tccccaaaat agtnttacag ttcgagtgcc tcaaacaacc 840
acatatgttg taaacaatgg actaaccctg ggatcaacag gacctcagct cacagtgcat 900
caccgaccac cacaagtgca tactgagccc ccacgccccg tgcacccagc acccttacca 960
gaagctccac aaccacagcg tctgccccca gaagctgsca gcacatctyt gcctcagaag 1020
ccaccccact tgaagttagc acgcgttcag agtcaaaatg gcatagtact gtcatggagt 1080
gtcctggagg tggatcgaag ctgtgccact gttgatagct accatctcta tgcttaccat 1140
gaggaaccca gtgccactgt gccctcacaa tggaaaaaga ttggggaagt caaggcactt 1200
cccttgccca tggcatngtt actctcaccc agtttgtatc tggtagcaaa tactactttg 1260
cagtacgagc caaggatatt tatggacgtt ttggtgcttt ctgtgatcct cagtcaacag 1320
atgtgatctc ttctacccag agcagttaaa cttgggagct ttaaaatttc ccctttaaaa 1380
tttcactttt gggcctggtt ttaatctgtg catgaa 1416

<210> 5121
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5121
gctgcatctg caatgaggat gccaccctac gctgcgctgg ctgcgatggg gacctcttct 60
gtgcccgctg cttccggtgg gtgcaggtgg aatgttctgt gcgagagctc aagggctgcc 120
tggatccctg acttgtatcc ctttgttcca cagagagggc catgatgcct ttgagcttaa 180
agagcaccag acatctgcct actctcctcc acgtgcaggc caagagcact gaagacaccc 240
tggtcctccc ggaagggcag tcccacaggc agcggcaccc atttctgggc cccgccacag 300

<210> 5122
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5122
gtccttgtcc agcctccaag acccacaagt cccttcctct gggaagcccc cctggcctgg 60
aggtgcacca ggaagaagtg gtctggggct ggcactaagc catggcccag ggaagactgg 120
gggacccact aggccaggat gagacctgca cgcagtggct cacagcagca cgatttgtga 180
cagcccgagg cggagaacac cgaacaccca gtgaaggtga ggggatcagc acggcgcggc 240
cacccacgca cccacgcgct ggaatgagac tcagccacaa ggaggtgcga agctctgacc 300

<210> 5123
<211> 634
<212> DNA
<213> Homo sapiens

<400> 5123
caagagagag tgatagaatt ggcagtgaaa tatacgaacc accctcctgc cctctgggtt 60
cacaatacgt gtacacttga ctgtgaagtg gctgtgagag tgggtggaga gttcttcttt 120
gaccctcagc ctgcggatgc ctctagaaac ctcgtgttga ttgcaggagg agtcggaatt 180
aacccctctgc tttccatcct gcggcacgca gcagcatctc ctcagagagc aggcaaacaa 240
aagaaatgga tatgagatag gaacaataaa actattctac agtgcaaaaa ataccagcga 300
actcctgttt aagaaaaata tccttgattt agtaaatgaa tttcctgaga agattgcatg 360
cagtttgcat gttacaaaac agactacaca aatcaatgcg gaactcaagc catacatcac 420
ggaaggaaga ataacggaga aggagataag agatcatatt tcaaaagaga ctttgttcta 480
tatttgtggc ccacctccaa tgacagactt tttctccaag caactggaaa acaaccatgt 540
acccaaagaa cacatttgct ttgagaagtg gtggtaggag gcagacaaag gcagaaaaaa 600
taaagaggtg agatctactc aggaaaaaaa aaaa 634

<210> 5124
<211> 672
<212> DNA
<213> Homo sapiens

<400> 5124
ggccaaagag gtgctacatg cattgaaaga aaaggttact tcactacctg acaaccataa 60
aaatgccctt gctgctaaca tagatgaaat tgtatttaca tcaacaggag acatctccat 120
ttactatgat gagaaaggaa ggaagtttgt taacatcctg atgtgctttt ggtatctaac 180
cagtgccamc atccccagtg aaactttaag aggagccrgt gtattccagg ttaagttggg 240
gaatcagaat gtggaaacta aacaacttct tagtgcaagc tatgagtttc agagggagtt 300
cacacaagga gtaaagcctg actggaccat tgcacggatt gaacactcaa aattattaga 360
ataattttct tggaaaaatc agcttatgga ctttagcagt tgctgtgaaa aactaaggaa 420
gaaaaatttt ggggtcattt gatcttcact taatctaagt ctgtgaatta cttttatatt 480
attttgaaat actccttgca gtatattggc atgatacagt aaaagcattt tccacagatt 540
gttatcacct tctttaaaag aagtcaaaat ttaaaaaata caatagcacg ttgttggtgt 600
catattcaat aacatttcca atgctacata taattttata gacataataa agaaggtatt 660
gaaaaaacta aa 672

<210> 5125
<211> 738
<212> DNA
<213> Homo sapiens

<400> 5125
catttgtaaa gctgcaggga aagaggttcc acttcccagc aaccccatcc taatggctta 60
tggcagtatc tcaccttcag cttatgtatt agagattttt aaagggatca agtcgagtga 120
gctggaagaa tctctacatt gtgctgcctt tctcttatgt cccagacatt cttaaactct 180
ttaacgaatt cattcagctg ggctctgatg ttgaacttat atgccggtgc ctcttcttcc 240
tccttaggat tcactttgga cagatcacta gcaatcaaat gcttgtgcca gtgatagaaa 300
aattaaggga aacaaytatt tcaaaagtca gccaagtccg ggatgttatc ggcttcaata 360
tggctggtct tgattatctc aagagggaat gcgaggcaaa aagtgaagtt atgtttttg 420
ctgatgctac tagccacttg gaagagaaga agaggaagag gaaaaagagg gagaagttga 480
ttctaacgtt gacttagaac tgaaatgtgg tatctttttt tttttcaaca tttttccttt 540
aaaggactcc taaactaagc acagaagagt tggcgtcatc ttaaaaatac caagtaacag 600
aagatcgcat tgcagatgat atcaggatgt ggtttccagc tttgcctgag ggaattccaa 660
catgagatta tgggctggct ccatttcttg gacttaaaat gcattattag tttaaaaatc 720
tttctgtgct ctcaaagc 738

<210> 5126
<211> 1203
<212> DNA
<213> Homo sapiens

<400> 5126
gcactgtttt agctcttgcc aaacctcctt cgccctgtgc gccaggtaca agcagtcagt 60
tctcggcagg ggccgaccgg gcaacttccc cccttgtgtc cctctaccct gctttggagt 120
gccgggccct cattcagcag atgtcccccc ctgcctttgg tctgaatgac tgggatgatg 180
atgagatcct agcttcggtg ctggcagtgt cccaacagga atacctagac agtatgaaga 240
aaaacaaagt gcacagagac ccgcccccag acaagagttg atggagaccc agggattgga 300
caccatctcc caaccccagg gactcgggca agggtgccga agatagacaa gaggcacaca 360
gagacagacc aactggcagc caggcagccc cagaggagag agacattcag acagaggaaa 420
gtctccctgc ccctcattcc ttccaagatg agaaaaactt gccgccaccc cccgacactg 480
atgccaggga ggtgggagga agaagtggga aatttccctt cccagtaccc ccaagaacgt 540
ctgagccttc aatgttgaat tttttcttta ttaaaattac ttttatctta taaaatcaac 600
taatcaaaaa tgatatagac gacagcactg gctctgtgaa ggtggcatct ttctgggcag 660
gcaggccatg gggcatggag gagggtgcaa agatatgggt tgctgtcttc tggcctccag 720
ctgcatggag gccggcccag ggtctagggt gtgcactggg caagggcagg gcggcaggtg 780
tcaggccggc ttggacaatg aaaccctgac cttgctgcat tccttttgct tccaccacca 840
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atttgagtgt agggagtgtg ggagcagcct tggcagatkg gcacccgtgc cctgcaggtg 960
ttgacaagat ccgccatctg taatgtcctt ggcacaataa aaccaaatgt cagtttccct 1020
gagccccgac tctgttctgt gtggggcagg ggttgggcgg gcctctgggc agaggatgca 1080
atggcacgga ccttggcttg acctcagagg tgtgaatgct ctccagcagg gtctgtctgg 1140
gggcctggag tttgtatttg atttgctgct tattaaacct ccttctggac ctattgccac 1200
tgg 1203

<210> 5127
<211> 669
<212> DNA
<213> Homo sapiens

<400> 5127
aattactgga acccgggagg cggaggctgc acagtgagcc aagattgcac cactgcactc 60
caggctgggc aacagagtgt gactccgtct caaaaaaaca aaaacaaaaa saacttcksc 120

ctmckmsrca gactcctccc ctggtcacca ctagtgatcc accttatgga tctcccaagg 180
ccacctctgc ctctgctctg tgttgtatta tttgggggac ctgtggtctg gcatgcattg 240
tacttggtks cccaaagggc tgtggcatct gataagtgat ttatcctcag gcacagattt 300
gcactatgtc acccacttac ttgtatgtag aagtgagtca ccggctggca aatgggcata 360
gctgctgggc agtggatgca gctccatgca tgttattctc atttgataca ggatctcatt 420
ggcttctcac agcaatcctg tgcactatag gtattgctcc cgggaacaga tgaggaaaca 480
ggagagtgcg agattacagt aattttgtaa atgggaggat ttgtgaaggt ttcagacata 540
caccctctct catatgtcaa ggatatgaag tctaatgaat cccctaaagc agcaggggtt 600
ggcaagcttg tgccctgggg ccaaatcagc ctactgcctg tttttgtaaa taaagtttta 660
ttggaacac 669

<210> 5128
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

<400> 5128
ggtgccatgg agttcaccat ctgcaagtca gatatcgtca caagagatga gttcctcaga 60
aggcagaaga cggagaccat catctactcc cgagagaaga accccaacgc gttcgaatgc 120
atcgcccctg ccaacattga agctgtggcc gccaagaaca agcactgcct gctggaggct 180
gggatcggct gcacaagaga cttgatcaag tccaacatct accccatcgt gctcttcatc 240
cgggtgtgtg agaagaacat caagaggttc agaaagctgc tgccccggcc tgagacggag 300
gaggagttcc tgcgcgtgtg ccggctgaag gagaaggagc tggaggccct gccgtgcctg 360
tacgcsacgg tggaacctga catgtggggc agcgtagagg agctgctccg cgttntataa 420
ggacaagatc ggtgagnagc agcgcaagac catctnggta gacgaggacc agcttt 476

<210> 5129
<211> 340
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(340)
<223> n = A,T,C or G

<400> 5129
aatcccacaa agcctagcac caaacttctt tttttcttcc tttaattaga tcataaataa 60
atgatcctgg ggaaaaagca tctgtcaaat aggaaacatc acaaaactga gcactcttct 120
rtrcamwarc ymkagactrk tswcwmwcag atggttgctc agggacaagg tgccttccaa 180
tggaaatgcg aagtagttgc tatagcaaga attgggaact gggatataag tcataatatt 240
aattatgctg ttatgtaaat gattggtttg taacattcct taagtgaaat ttgtgtagaa 300
cttaatatac aggattatng aaanaatatt ttgtggtata 340

<210> 5130
<211> 610
<212> DNA
<213> Homo sapiens

<400> 5130
gttaacttct ctgagagagt tccttgtaag gctacttata aatagtagta tatatatata 60

tagtttatgg cagggaagat ctgggaagta agcaaaaaga gcctttagtt aggcaacata 120
gaacaaaata gaggtcacag gttccatgca ctgaagaatg gaattgaaat agagactcca 180
gggtcataga ctcttggaag gaagactaga gtacattcat gaccctcacc cttaattact 240
tcacaggtga gaaaaccaag agctacagaa aataagttat tcctcagywc cagggcctrs 300
ytccttggag aattgggtta aaattcaaaa taaccttcta aaaaattctt tcagaaacga 360
gtagtgaaag ccagtggatc aaattcagtg atagttaaca gagaaacagc agcatagata 420
agtaagccaa tttaatgtag ggagcaacca ctagtgtaca tgatctcagc tcatctggta 480
ctaccaagta aaaatgaacc tgggccagcc acagtgactc atgcctgtac tctcagcgct 540
ttgggaggcc aaggtgggag gattgtttga ggccaggaat ttgagaccat cctggtcaac 600
atagcaagac 610

<210> 5131
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5131
ctgtgaagta tatgtaacat gagcgagcgc taggggaacg cttcaaagca gtaggcagac 60
atcattgtgg agctaaacta agcacagtgc ctatagacca gggtgctatg aacaggcgga 120
aagagtgttg acaatcagaa attgtcaatg gtaattgcaa ataggaagac gcaagggcag 180
aatggcagct gcaagcactg atttgcaatt atgccacttt cactgggaac tctgagtact 240
ccagggtggg tagctgctgc agcttgcttt cttctaatga ggattaatga ttactttgag 300

<210> 5132
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5132
gcatcctctg atggcactgt aaagatctgg aatatgaaga ccacagaatg ttcaaatacc 60
tttaaatccc tgggcagcac cgcagggaca gatattaccg tcaacagtgt gattctactt 120
cctaaaaacc ctgagcactt tgtggtgtgc aacagatcaa acacggtggt catcatgaac 180
atgcaggggc agattgtcag aagcttcagt tctggtaaaa gagaaggtgg ggactttgtt 240
tgctgtgccc tctctccccg tggtgaatgg atctactgtg taggggagga ctttgtgctc 300

<210> 5133
<211> 757
<212> DNA
<213> Homo sapiens

<400> 5133
gctgccacca cccccgggcc cagcctgtct gaaagttcag ggtttaggcc gagaaacccg 60
gtggggaggg gtggggagcc ggagctctgt ggcggggctg gagggctggg gtgcacttta 120
gtttggggcg ggacgggagc cgccgttgtg actggcgtgg tctggctgct gctcccgaac 180
ggaggggtcg gggttggctt gctgggccct cagagcccag tgggtggctc tgactcggct 240
ccctactccc tgcacccagc tgggcgcagc cttggggcct gcggtctgaa tgtatccctc 300
ccctcagttt taacctgagc tgccgaacgc acagtgggcc gggggcgagg ctgggggaag 360
cggggcccaa ttacggatcc cgggagttac aggtgccgac gtgatgtcgc ttctctggtg 420
cccagctccc ttcctggtct gagactagct ctgggggtgg cgggggcccc cacacgctyg 480
ctcccgctcc accctgcccg tgctgctgct ctgtgcctgc tgtcagagcc ctggtggggg 540
aggatgtggc caccctgaga cccggaggag acgggcgtct gcctgggttt gcggagagcc 600
gcttatgggt gtggtccgtc cagacacctt gtttcaaggg ggatgggcgt gagcgggcaa 660
gcagagcatc cccaccgctg agcaagaact ttttcttgtt tttaaaccat cacgtcctca 720
tttcacattg gaataaagtg agtttttgaa acctgcg 757

<210> 5134

<211> 1316
<212> DNA
<213> Homo sapiens

<400> 5134
gtggcaactt gatgaaacag ccaaatgcac cagggcaggt cactttccca ttacactgat 60
tccacaatta aaaaaaaaaa aagaaaaaaa actcattgar atagctacag ttctataggt 120
taatttaaag cctccttttt ctactcattt ttgaaascaa aattacattt tactatttta 180
cataaccagt gaaaagacgt tgaaagccta cagctcactg tttttggtgc tctggaaatg 240
ttgagggtgg gtttttaacc agtgattttt aacgtgcagt gaatttgtta gacttttaaa 300
caccagctaa ggtagtcaaa cttgatcccc attaaaaatc aaggaattag gggtcggggg 360
agggtttagg agtgatccag aatgacctcc cagaattact gtgcgtacaa ctttatttt 420
cagagttttc attggaatgg taagagtttt atgaaagaca gttttaaaac ttattctgag 480
ttaaatatta atactttaaa aaattattgt actagactta tcgcagcctt ttgaaagtag 540
cagagtttca tcataccaca tatataacag agcataaatt ttctataatc aggcaccttt 600
tgctgctttt gagtaagact gttttcctgt ttaagtgtta agcatcgcca gacataaaaa 660
tctattctct cctctcgatt gtagcatagc ctgacagctc tagatacagc atttctatga 720
tgaaaaatga gtatccatca ggaaatctag aagactagcc gtgttttctc agactccacc 780
tttgtttgca ctctgttgcc tgtgaggagc tttctggcat gtgattattt acttcaaaac 840
tagagttcca agcacctaca ttaattattt tatattgtgt gcagaatagt atatctttta 900
atgtcagata tgatacactg cacatattgc ttttgcactc ttaaaatttt tgtactaaat 960
aatagaaaat atttatattc tttgagtgtg agctttgaat agatggcatt atcactttat 1020
tgttttttt ttaacaaaaa ctttttctca attattctat tgcaatgtta ttctgagcaa 1080
gtcctatgcc aaatatcttg tataatgttt gtatggaaga ttaaatttta ctcttgtgtg 1140
gtaagactat ttcagttact gattttatag ttggaatttg atattccagc acaaagtcca 1200
cagtgtattc agaaatccaa gttggtgtca tacatttcat tttgatgtga acttttcttt 1260
gctttccttt gttctaagac tccattttgc aataaacgtt ttgacagtaa aaaaaa 1316

<210> 5135
<211> 377
<212> DNA
<213> Homo sapiens

<400> 5135
aacgcttcaa ttgttttgta gaaattttaa taggaacttc aagaagtaaa cctttataac 60
attgtaaatt cttacgtaca gcatcacaaa agacaaggaa tmctgtcata tccttttagc 120
aaaatgakat tgcctaggtt cttgttgcaa aataccacat aatgaaatcc ttcctgttgc 180
atgattaact gggtgagaat atcatctttc cttttggtcc gtagaaatgt attattcact 240
actccattct tgaggtttgt tttttaattt ttttggagac agtctcactc tgttgcccag 300
tctggagtgc agtggtgcgg tctcagacgt ctcactgcaa cctctgtctc ccaggctcaa 360
gtgattctcg tgcctca 377

<210> 5136
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(550)
<223> n = A,T,C or G

<400> 5136
gaagacacca gtggtggaat cgagtgtttg gccacagttc gggacctatg gtagaaaaat 60
actcagtagc tacccagatt gtaatgggtg gcgttactgg ctggtgtgca ggatttctgt 120
tccagaaagt tggaaaactt gcagcaactg magtaggtgg tggctttctt cttcttcaga 180

ttgctagtca tagtggctat gtgcagattg actggaagag agttgaaaaa gatgtaaata 240
aagcaaaaag acagattaag aaacgagcga acaaagcagc acctgaaatc aacaatttaa 300
ttgaagaagc aatagaattt atcaagcaga acattgtgat atccagtgga tttgtgggag 360
gctttttgct cggacctgca tcttaaggnc atgaatattc tcccataacg gattcaacta 420
tgagaagaga agtggcagca ataaggcagt ctctcaaaag tcatactgcc agagtctcta 480
gggcaaggng aaacanctag ctgggcaata ctcaattcac aacttagcat tttgccatct 540
tgaagcttgg 550

<210> 5137
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(447)
<223> n = A,T,C or G

<400> 5137
cgccagagca gcagtgggga acatcttctt gtctgctgga cacctgattg ggccggttct 60
ctgccattcc ttctgcaatt acatgggttt cccagctgtt tgcgcggcct tggagcaccc 120
acagaggcgg cccctgctgg caggctatgc cctgggtgtg ggactcttcc tgcttctgct 180
ccagcccctc acggacccca agctctacgg cagccttccc ctttgtgtgc ttttggagcg 240
ggcaggggac tcagaggctc ccctgtgctc ctgacctatg ytcctgggat acgctatgaa 300
ctntgaccng ctccccancc ctccccacca aggggttact gcaggggaag ggctaggtgg 360
gggtccccga gatcttaggg aatttttta gggggatttt aagccagagn tagtttgcgt 420
tcccagggac caaggagaaa gaagcat 447

<210> 5138
<211> 555
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(555)
<223> n = A,T,C or G

<400> 5138
cgacagctct ccaatactca ggttaatgct gaaaaatcat ccaagacagt tattgcaaga 60
gtttaatttt tgaaaactgg ctactgctct gtgtttacag acgtgtgcag ttgtaggcat 120
gtagctacag gacattttta agggcccagg atcgtttttt cccaggtgca agcagaagag 180
aaaatgttgt atatgtcttt tacccggcac attccccttg cctaaataca agggctggag 240
tctgcacggg acctattaga gtattttcca caatgatgat gatttcagca gggatgacgt 300
catcatcaca ttcagggcta ttttttcccc cacaaaccca agggcagggg ccactcttag 360
ctaaatccct ccccgtgact gcaatagaac cctctgggga gctcaggaaa gggggtgtgc 420
tgagttctat aatataagct gccatatatt ttgtagacaa gtatggctcc tcccatatct 480
ccctcttccc taggagagga gtgtgaaagc aagggagctt ngataagaca ccccctcaaa 540
cccattccct ctcca 555

<210> 5139
<211> 576
<212> DNA
<213> Homo sapiens

<400> 5139

gctacgtggg aggctgaggc rgragaatct ctksmrcckm rgaggmrgag gttgcagtga 60
gccaagattg tgccagcctg ggcgacaggg tgaggctctt gtctcaaaaa aaaaagtcca 120
catcttcatg aaccctcaga ctctggagtt gggtgtcggc ttttttagcc agcttttgtk 180
ssrwttrsyk wkracctatt aaagaaggaa agtgggtaat ggagtcccag ccactcaaga 240
gactggatat cccccgagaa tggcttgggt taccagctat ggacccttgg aagatgaatc 300
taatccttct cactggtttt tctttgcaaa ttcatttgct tttatttttc taataacaat 360
aaactctatt ttccatgttc tcagggcccc tgggtagaca gacacagctt gatttcagag 420
cagacatagg cgaagaaaac atggcattga gtgtgctgag tccagacaaa tgttatttat 480
atacacatcc aaatttgaag agaaaatgta tttctttagg tttcaaacac tgtaatagat 540
ataaagcaaa aataaaaacc tgttgcaaag ttaaaa 576

<210> 5140
<211> 631
<212> DNA
<213> Homo sapiens

<400> 5140
agtacccaga gttgcgagga gtttttaac tgatttagcc aggtggcaat catgagtgaa 60
tggatgaaga aaggcccctt agaatggcaa gattacattt acaaagaggt ccgagtgaca 120
gccmgtkmgr agawtgagta taargsatgg gttttaacta cagacccagt ctctgccaat 180
attgtccttg tgaacttcct tgaagatggc agcatgtctg tgaccggaat tatgggacat 240
gctgtgcaga ctgttgaaac tatgaatgaa ggggaccata gagtgaggga gaagctgatg 300
catttgttca cgtctggaga ctgcaaagca tacagcccag aggatctgga agagagaaag 360
aacagcctaa agaaatggct tgagaagaac cacatcccca tcactgaaca gggagacgct 420
ccaaggactc tctgtgtggc tggggtcctg actatagacc caccatatgg tccagaaaat 480
tgcagcagct ctaatgagat tattctgtcg cgtgttcagg atcttattga aggacatctt 540
acagcttccc aatgagaggc caggaagtgt gaacatactg atagaaaaag actatatttt 600
atccctcata aaatgtttta aawrtaaaaa t 631

<210> 5141
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5141
aagtatatat gactccactc aggggtgtaa aagcaaccca agcatcaaag tctactcagc 60
taaagactaa cagaggacag agaaaagtga cagtttcagc taggacgaac aggaggtgtc 120
agactgctga agccgactct gaaagtgatc atgaagttcc agaaccagaa tcagaaatga 180
agatgagact accaagacga gccaaaaccg cagcactaga aaaaagtacc acttaccctt 240
gcccaatttc tcaatgaaga tctaagttag gaaagacgat ggaggtggaa tcctttaaga 300

<210> 5142
<211> 699
<212> DNA
<213> Homo sapiens

<400> 5142
gtttcactgt gcggtgcagt gcggcggcag ctcgtgagga ggacccgtac atkgacacca 60
ccctgaaggc ttgcccacct gtcagtatgg atgtctgtgc tttaagaata cagcttttca 120
taggcttgaa agccatctgt cactttaaaa accacatcat acttttgact aaagcagaac 180
cctgaagcca ttccagagag aagacagtca cccaagaggc ttctttcgag waarsatmcc 240
mktgyymmar kcaaaatwcc tgccwgtwkc tgagrmtgag ktgkaaytkg tatattktgw 300
rtaykatcty wccagtgcag ctgtacaaag agatggtaga ctatagcaat acctataaga 360
ctgtcaaaac ccagagctgc attcaccttc tcagtgaggc tcatctgtta gtgcgagctg 420
scctgatgga tgccagtcag ctggaacctg gagagaaggc agagcttttg gaagcattta 480
aggaaagctg tgggcacctt ggggactgtt acagcaggct tgactcccag cattctcatc 540

tcaccttgcc atactataag atgtctggtt tgtctatggc tgaagttctg gcccgcacgg 600
actggacagt agaggatgga ttacagaaat acgagagagg attaaatctt ttacattaaa 660
tccattccac tttatggaaa acctgggatg taaggaatt 699

<210> 5143
<211> 423
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(423)
<223> n = A,T,C or G

<400> 5143
caggtagtgg cccctgtaag cagggccaga gtcgggacaa agagcaggag tgaagcagcc 60
aagagacaga ggaccaggct ggagccagtg ggcacgcagg agcctgcctg ggaagaagcc 120
ggggggcaag gctggcatgg gaatgaacac ctgctggtga cacctctctg agcttcagtt 180
cccttaacta gaaaaataga acaggcccgg tgcggtggct catacctgta atcccagcac 240
tttagrkatg rytgmrrcrr ktrswtcwts agrtcaggms wtccwwracc ayymwrrccg 300
acattggggt attagcaatg ttttgttact tgggcatttt caagaggcag acatagtcca 360
gaagcagaag nttgggcagg tcccagatct tgttctatag ccctttatcc tgaagctcgt 420
gcc 423

<210> 5144
<211> 366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

<400> 5144
gctccttctt actctagtat ctctgccttt ggtcagtcag agagcatttg atgagtacca 60
tgctgggctg gaccccatcc tggctgccct ggaagataga gacaggtcac cttgatccct 120
gcctgtagca tttgggctgg ctgagatggt ggargtgtga acagaatatt ccagtccagt 180
gtcctctgtg gtagggatgg ggatggaccc sggagaggcc ctcctgttcc tggcaggagg 240
tgggactcag agttaaaagt gaggtcaagr cccagtgcga tggctcacam ctgcagtcct 300
agcacttcgc gganttnagg tggatcacca gaacccngta gttcaagacc agccttggan 360
aaanat 366

<210> 5145
<211> 952
<212> DNA
<213> Homo sapiens

<400> 5145
ggttctacca gtgcctacac caagagtggc tactgtgtca acaggttttc ttcacttctg 60
ccaggaggca acaggcgaaa ctcaacagca aaagactaca ccattctaga ttgcatttac 120
aatgaggtaa accagaccta ctacgttctg gatgtgatgt gctggcgggg acacccttt 180
tatgattgcc agactgattt ccgattctac tggatgcatt caaagttacc agaagaagaa 240
ggactgggag agaaaaccaa gcttaatcct tttaaatttg tggggctaaa gaacttccct 300
tgcactcccg aaagcctgtg tgatgtgcta tctatggatt tccctttga ggtagatgga 360
cttctcttct accacaaaca gacccactac agccccggaa gcactccctt ggtgggctgg 420

ctgcgcccta catggtgtca gatgtccttg gtgtagctgt gccggctggc cgctgaccac 480
caagccagac tatgctgggc accactccag cagattatgg agcacaagaa gagccagaag 540
gaaggcatga aggagaaact cacacacaag gcctctgaga atgggcacta tgaattggag 600
cacctgtcta ctcccaagtt gaagggttct tcccatagcc cagaccaccc tggatgcctc 660
atggagaatt aaagagagaa gmctccttaa ggagccacag gatggtacct ggccccaaaa 720
ggaatcctgg agaggaggac agtgacaaca ggtgacttya ttctttagag tgaactttcc 780
aaacccagtc cagctggaaa cagcttatct ataatctgaa atgctggctc aaacagttat 840
ggggaggttc ccagattgcg tagcattcag attgatttga gcagctccta ctgtgataag 900
tgtatcccag atccacaatg taaatatatg tgatttgtaa gaaaaaaaaa aa 952

<210> 5146
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

<400> 5146
gcaccagcag gtagtggccc ctgtaagcag ggccagagtc gggacaaaga gcaggagtga 60
agcagccaag agacagagga ccaggctgga gccagtgggc acgcaggagc ctgcctggga 120
agaagccggg gggcaaggct ggcatgggaa tgaacacctg ctggtgacac ctctctgagc 180
ttcagttccc ttaactagaa aaatagaaca ggcccggtgc ggtggctcat acctgtaatc 240
ccagcacttt agrkatgryt gmrrcrrktr swtcwtsagr tcaggmswtc mwkaccaccm 300
tkraaaccgc attggggtat tagcaatgtt ttgttacttg ggcattttca agaggcagac 360
atagtccaga agcagaagnt tgggcaggtc ccagatcttg ttctatagcc ctttatcctg 420
aagctcgtgc c 431

<210> 5147
<211> 1101
<212> DNA
<213> Homo sapiens

<400> 5147
tgaaaagggt aaacctgttt cacctcccaa atttatatat tcaaagtatt tacttaaaat 60
tcagaagcca gaagttcatg tcatgattac caggaagttc aggccagaat gaatccctag 120
agaagccagg ccaagcctgg ataattgcag ctggatgacc ctggcccgaa agtcacagtt 180
maktckgmmy kakkcctagt tcaggcttac tatctagaac ctcatgctag cttaggttgc 240
atgtttacat tgctgcagtg tctttactgg aagcttagtt ggatcgaaat ggacaccgag 300
atggagatgc ttctggctac atttcgcaga accccaggag acctgcattt agaccactct 360
gtccatttgt gtgcccaccc ccacccccag ggtctaagtg tagactccaa gaggagcagc 420
ccagagcttg gaggagaggt gtgtctgggg saccactggt gggtggtgct gctcttcttt 480
ttgttgtagt taatgcggtg tcttttaatg gactctcagg cctcccagac agccttgttc 540
ctttaaggca gaagctcttc ttcattgtgt accyctggg attcatgagg tgtgagattt 600
ggcctgcttg actttgaatt caagtttttc aagtgactct cagtgtcaga agaagatttc 660
atgctgtcca catgtggtat gtccacagct caccttcaaa ggcttagatg tagccatcac 720
agagagtggt attttattaa gaacccaagt cccagcctga ccaacatggw gaaaccccat 780
ctctactaaa aatamaaaat tagccgggcg tattggcgtg cgcctgtaat cccagctact 840
caagaggctg aggcaggaga atcgcctgaa cccagaggcg gaggttgtag tgagccgaaa 900
tcacaccatt gcactccagc ttgggcaaca atagcgaacc tccatctcaa attaaaaaaa 960
aaatgcctac acgctcttta aaatgcaagg ctttctctta aattagccta actgaactgc 1020
gttggggagc tgcttcaact ttggaatata tgtttgccaa tctccttgtt ttctaatgaa 1080
taaatgtttt tatatacttt t 1101

<210> 5148
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(515)
<223> n = A,T,C or G

<400> 5148
ggaagaggga cgccgagaag aaggacctgc ctgtcaccaa aaacacgctc aagtgcactt 60
tccggtccct ccaggtcagc aggctgccca gcagcggcga ggctgcagcc acgcccacca 120
tgtccatgac cgtggtcacc aaggagaaga acaagaaggt gatgtttctg cccaagaaag 180
cgaaggacaa ggacgtggag tctaagagcc agtgcattga gggcatcagc cggctcatct 240
gcactgccag gcagcagcag aacatgctgc gggttcctca tcgacggcgt ggagtgcagc 300
gacgtcaagt tcttccagct ggccgcgcag tggttcctcg cacgtgaagc acttccccat 360
ctgcatcttc ggacactcca aggccacctt ctaggcccca cccaccaggg gggcccacct 420
ccttgcccca ttgntgtgag ggggcccagc ttgcattttc ttgtttaaac attttcagtt 480
ttaattacag aggacagacg tttnaaaaca caaag 515

<210> 5149
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 5149
cagagctgta tcttcagtgg tgtgatgaag ctacagtagg ggagatcact catgctaggt 60
atggatctcc ttacccttgg cctctgaatc atattttggc ctatcaaaaa cagtgggaag 120
kcaaacgtaa grtgraagct atkggatggg gaaagaagac tctggaccag gtcttagagg 180
atgtagacca gtgctgtcaa gctctctctc aaagactggg aacacaaccg tatttcttca 240
ataagcagcc tactgaactt gacgcactgg tatttggcca tctatacacc attcttacca 300
cacaattgac aaatgatgaa ctttctgaga aggtgaaaaa ctatagcaac ctccttgctt 360
tctgtaggag aattgaacag cactattttg aagatcgtgg taaaggcagg ctgtcataga 420
gttatgtgtt agtctcagga gtcttaactt ttgaaatatg ttttacttga atgttacatt 480
agatattggt gtcagaattt taaaaccaaa ttactgcttt ttgaaacctc aaattatata 540
atgtatctta tgtatgtgct ttatattgtt atttgtgtat acattaaaat aattctgaat 600
tatttaatct gatatgttgt attctgtatc ttgaaatttt tgtttccttg aaacatgcat 660
gcatttaaaa ataaagctta aacaactgta tggatgttaa aaaaaaaaan 710

<210> 5150
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(648)
<223> n = A,T,C or G

<400> 5150

atttagtgag atttgtattc taggaagtgt gtgccgtcac ttgttcattt acaactgcaa 60
agattgtatg tctcctatgt tttcctttca tgccaaagaa actcaccctt tttaaaagcc 120
agcaggttgc acaaaccaaa aacaaaatat tttgcccctt aaataggcat tttaagaagt 180
tttatttcct ggtacttaaa tattgtgtag agggaaagct agttgtaata atttgtaaaa 240
atgcgtgtat ttttaggaat gcgctatttc cagtaaggga agtattgaca tttttaagga 300
actgtgctgc attaaaatcc acagttgcat gaaactttta aaagtttaag atataaagta 360
attgctaaaa tttgtgaact actcagagga ctcaatgccc taacatgtag gggattgatc 420
attgcgatgt ttaggccagg atttctcatg attgtatatg gttattgatc atttttaagg 480
ggctgaacct gctgccttta tacttttgac acctccctcc ctcccncccw ccaaactgtg 540
gctgtaaaca gtgactctgc atagtcagcg ttatacttga tttctttgtg aatgcaaata 600
aaataaaatt tgtaagtcca ccaaatattg acttaactag gtaaatgt 648

<210> 5151
<211> 906
<212> DNA
<213> Homo sapiens

<400> 5151
gtactttgag tgtttggggg ttcaacacac acatgcaatt ttgcttaaca aaagtatttt 60
ataatacagt ttcatacaga attaccttaa aagggagtct tatgttttca actacagata 120
gttgwaaggg atcataccag aagatattga tgatagtkga aatattctta gaaggggtgt 180
gtatgtccta gcctgtgtct accatgtgta tgtattcttg acaagcagta taaaatacct 240
gtgatttttc tttacattag ggataatgca taaggaatta atcttcatat atattatcat 300
ccctaatgta gcaggggggaa gtatttaatt gcccatgata tgtattttac ttatactatg 360
ccrgagrgga aactataaag taattacmca tgtaatcttg ggtttttcac atatgtaggt 420
attcattttg agtaggttga agaagaaaaa aaatatttaa atgaattgaa ttcctgatgg 480
gatagtatca ataagtattt aaaagccagt attctaaaaa taataaaggg tagggtcatt 540
tttgagtttg tttttctttt gctattgtta atattcaaaa ttaaagtgtt acattggtac 600
ctgttgtctt aatgcattta ttgagaacag cattgagatg atgaacaagg ggttagcaat 660
agcaaactct ataattattt tgactaatta cttaagagga aaacagtata agtatctcat 720
tcagtattta gcaattctgt aaaataagta ttatctctat ttttcagatg aggaagtaag 780
ggtttagcaa ggttaagaga tctatccaat ttacacagca agttagtagt tgagcctgac 840
catgagtctt ctgactctgt tcttttcact atgcaatacg caaacaataa aatgttatac 900
aaatgg 906

<210> 5152
<211> 677
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(677)
<223> n = A,T,C or G

<400> 5152
caaagccgtc ccttcaaatc cgtctttgtg cccactgcca tagtcaaccc cgtgagaagc 60
acagccggcc ctgggacttt aggacaaggg tctcttcgga aagggcggag cagcatgaga 120
aagaatggat ccctgcagag acccctccag tccgggatcc ccactctcgt ggtagsctcc 180
cycaracsca gccccaccat ggtccttcgg cctcagcagt tccaattcta ccagccacag 240
gggatcccct cctccccctc asccgtggtg gtggagatgg ggtccaagcc tgccctcacg 300
ggggagcccg ccctcacgtg catcancagg ggcagtgagg cccggttcca ctccgcggcc 360
agctccctca ttatggaaga caaagaaatc cccatcaaga gtgagcctct gccaaaaccg 420
cccgcatctg ccccaccatc catcctggtg aaacagaaaa ctcaagaaat ggcatcgaaa 480
gcaagtcaaa accgtgagat ttcagaatta cagccctcct ccaccaaaca ttacacctcc 540
atccacctcc ggaaagcctg acagcagcac cctcaaggcg tccagctgaa gcagcgtctt 600

gggccagaga tgacatctat ttgccaccga gtgctgcact cggcaagaga agactcgaga 660
agtagctctg caaggca 677

<210> 5153
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 5153
ggcagtgctg cgcggggctc ccagccctgc tgggaaggac cagggaacca ctcagcaatt 60
agaccctctt ggccctgccc ccaccatgca cccagcagcc agggagtgca gcggkcagcc 120
tggcagtgag tgaaacccag gcctycagcc ctccaaagcc tggggccacc ccctgtagca 180
ggcgatgcta gaataaggag gagagccaga gctgaggctc cttgcccctt ggcccctyca 240
ggggccatgg gatctctgtc tcccacaccc ctgtcacggn ccgcctggan cancccatag 300
g 301

<210> 5154
<211> 427
<212> DNA
<213> Homo sapiens

<400> 5154
gtgatccgca agttgtggaa gaaatacgcc aagcaaataa agtagccaaa gaagctgcta 60
acagatggac tgataacata ttcgcaataa aatctygsgy cramagaaaa tttgggtttg 120
aagaaaataa aattgataga acttttggaa ttccagaaga ctttgactac atagactaaa 180
atattccatg gtggtgaagg atgtacaagc ttgtgaatat gtaaatttta aactattatc 240
taactaagtg tactgaattg tcgtttgcct gtaactgtgt ttatcwtttt attaatgtta 300
aataaagtgt aaaatgcaga tgttcttcac ccctttggt agaacaaaag caggatgata 360
accatatccc cccagtgctc atcaaagtag gacactaaaa atccatccat ctcagtcaaa 420
gtcgagc 427

<210> 5155
<211> 775
<212> DNA
<213> Homo sapiens

<400> 5155
cttcaggaac tagatgtata tgcacaaggg attgagttta cactaaaact aggaaatgga 60
gttttcaatc tatgttcttg cctcttcata cttttattta ttttttgtca tcctgcctta 120
tactgggcta acaatgagat aaaataaaaa tacctttgaa tactcttttc cctttcatgc 180
atttaaagcc atggaggaac tagaccatta gctgttgccg tcacatgctt agacaccagt 240
ttacttagcg tgttatgacc ttcctcaccc atactaccaa atttaaatgg gtcccgactt 300
caccctctgg aaggaagtaa actcttctct ccccatggtt tcagagcagt ttttacctgc 360
aagcaccatc tctgtatgtg ctcttactag attatacagt tcttgagagg gattgcatct 420
tggtgttttt gtatttccac ctcaccccca gcacatagcc cagtctcttg cacaaattaa 480
gtacttaatg tgtgttgagc taaattgaat aaaggattat tagcattagc atattttgtg 540
ccttggttgt ataagctggt tgtttgtttt gttacctttg caaatattta tgattatcac 600
ccccccacat actaaattgt ttttaaaagt tttgcctttc cttcagatac taccccaggc 660
aatttgctgt agataatgtg attgcttcca atgacataat tatcccaaac tctctgcccc 720
ggatatactt tgccaaacga aatttgaatt ctctgaataa attggtcatg tctaa 775

<210> 5156
<211> 713
<212> DNA
<213> Homo sapiens

<400> 5156
gttggagaaa tccaaagctg accaaaacat ggtccccacc ttttggagct tacagtctgt 60
tctggggaac agagattcag ccaaagtcaa gaaacactgg atgccagcta gattatctgt 120
tctgtgcttt ggtgtctata agtacatatg tggatatggg ttcattttat ccctaaactt 180
agtaccaaac cagcatttaa tatctaatta taaatctaat ttggcctaaa ctttattatt 240
gcacactgcc tgaacaaaac ctatttgtct ctatgtaaat tttttcctca tggaacaagg 300
gtgtgaaatg aaaatatttt aggatttatk caaaracaga ctattctgtt ttcagcttca 360
gaattgttct ttgaatccta aggaacctct gtcaacagtt gaggttgctg ttgaaaagaa 420
agaagaagga ggcggaaatc tctcagggag aattatttcc tttcttttct atttcagata 480
cctggagggg tggggagaag taagaattgt aagggaggtt cagtagtggg gaattctgtg 540
acagctgatt gaagatgatg atgaagaacc tctgcattct agttaccctt tgcttcgctt 600
tcacctcttg taaaattggg ctggcaacaa tgacattgtc atgctttatg tccaatatcc 660
tcctgtcgag atctaatggt cttaatcgtg ccgtaaatgg aattccccca cca 713

<210> 5157
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(529)
<223> n = A,T,C or G

<400> 5157
agcagctgca tctaggggcc cttggtgaga tttacactca gagcctggtc gccccccgtt 60
agcccagatt caaaaggtga acatctgttt gcagaatctg attcatgaga aggtgagttt 120
attgttttca gtttagactt ttgggaagtt ggactagaga ggggagttgt tggggtcagt 180
gctggcttaa cagaaaacac agcgaatttc ccctccagtt ctccccaagt ccactgaaca 240
aggctagttc ctgcaccacc caggattcaa aggaaagacg aagggagcag aacttgtggc 300
agcaacaggt aaacttcaan aaggagggca ggatcccacc ctacagggct gggangganc 360
ccaaaggccc catctgtttc tcctccagga gttgtcaagg cagcagaaag gantcaccca 420
gccaaaggag gagatggctc ancggggctg caccaagggg ccaagaggcc tnacccgtgt 480
ctaaaccctc ctctcactcc cctaagcctg gtngaaaaga gtcagaaan 529

<210> 5158
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

<400> 5158
ttcattttta aaaagcttct ccttattatg ttgttgttta acaactkaaa cgctatctct 60
agaccaggaa taattatttg ctatatawta cagcaaaaaa tatgtatgta taaatggact 120
cattcaaaat atataaagaa ctcctattac aaagaaattg acaaacagcc cagtatatca 180
atgaatataa aaatttgaga agatattttc cataagaaga tatctaaatg aacattaggc 240
atgagaaaac caaatttttag gatatcacta cacacctggg yrtagtttaa aagactggaa 300

aatattaagt gtgtggggaa tgtagagcaa ctgaaaatgg cctacatctt tcataggaaa 360
tgttaaaacc aatacaawta ctttggcaaa actctgtccm acmttttcta cccmtttcac 420
ccagggcact yccttccctg gcttttgggt tnccccggg 459

<210> 5159
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5159
ggatgccctg gggcagaagc tgcccagaag gccccagcca gggcctggag agcagctcac 60
agtcttccag ttctggagtt ttgtggaaac cttggacagc cccaccatgg aggcctacgt 120
gactgagacc gctgaggagg tgctactggt gcggaatctg aactcggatg atcaggctgt 180
tgtgctgaag gccctgagat tggcgcccga ggggcgtctg cgaagggacg ggctgcgggc 240
cctcagctcc ctgctcgtcc atggcaacaa caaggtcatg gctgctgtca gcacccagct 300

<210> 5160
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(540)
<223> n = A,T,C or G

<400> 5160
gtgggaactt cccctactcc ctggatgtgt gtacctagca cacttccttc tcccaccct 60
ttttccagtt ggatttgttt ttctgttctc ttctgtcctg tcttatactg caactgtgtc 120
tcctagggga cagatggcct tctttgtcat cttcactctc caccccaga gaggagtcag 180
agcmwtaact caatcactca gcccctccaa agatagttga tgtgtgataa tctcataatg 240
ttgagaaccc tgatgagata cattgtcttc ctctccctac aatgcctctg gggccaaggc 300
acccattctt cttgctatcc tccatccccc ttgaggcttc cactttttt ttttttagac 360
ataaagctgg gcatcagcaa ctgggcctgt gggtgatgca aagctgcttt gctctgtatc 420
tgggctggga cttgatctgt ctcacaagga aggccatgag ggncataggg ggaggaaggc 480
ttccttntcc cccttcatct ttctgnttcc aaagggtggg tagggcaagg aggggagtta 540

<210> 5161
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(683)
<223> n = A,T,C or G

<400> 5161
atacgatggg gtgcttggtg gatgggccat ggaggtccgt gagctggaac tgggcacacg 60
ccatcccaga gggctcagga tgccccagga aggaaagaag ggcaacagac tacacgattg 120
gacgtgtgtg gttgactggg atgaagttgg agggaggggc agggccttgc aggggattgg 180
tactgatccc agggaggaag tgttggggct tcatgaacta ggatgaaagg aggcccctga 240
gccatgacaa ggggcacatc caggatttcc gccaccctga atttagtaga gctagtaggc 300
cctggtcgtc actctgggca gggatgccgt cagccttgag ggtcgccacc cacctgtgtg 360
ttgccctctg tcctggcggg gaaacataca ccccttgtct caccaccaac cttgcttgtg 420
tagtcnrcag ggctgccctg ccccaaggac tcactgcatg tacccggacc cctaggcctg 480

gcctttgcag catagttggg agcttctgga ttccatctgc acctgtgagc cccatgctgg 540
ctgtgcactg cgcgggcctg agactgctgg atacaatgtt gggcaacaac tcagccagcc 600
tgatggcagc ctcagaggct tactctaacc catcccagaa taaatggaga cttcatgtgt 660
tcattgtttc attcactcaa aaa 683

<210> 5162
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(578)
<223> n = A,T,C or G

<400> 5162
ctgacctttg tagagaatcg gaccttcgac atgcaatggc caattgtttt gaagcgttaa 60
taggagctgt ttacttggag ggaagcctgg aggaagccaa gcagttattt ggacgcttgc 120
tctttaatga tccggacctg cgcgaagtct ggctcaatta tcctctccac ccactccaac 180
tacaagagcc aaatactgat cgacaactta ttgaaacttc tccagttcta caaaaactta 240
ctgagtttga agaagcaatt ggagtaattt ttactcatgt tcgacttctg gcaagggcat 300
tcacattgag aactgtggga tttaaccatc tgaccstagg ccacaatcag agaatggaat 360
tcctaggtga ctccataatg caacgtggta gccacagagt acttattcat tcatttccca 420
gatcatcatg aaggacactt aactttgttg cgaacgtcgt ttggtgaatn atagaactcc 480
aggccaagct agcggaggag ctgggcatgc aggagtacgc cataaccaac cgacaagacc 540
aagaggcctg tggggcttcg caccaagacc ttgggcgg 578

<210> 5163
<211> 395
<212> DNA
<213> Homo sapiens

<400> 5163
cagaaattca aataattctt ttctgcttca atgccagcag aaggtccccc aggtagacat 60
ggagaagcac tttgttttaa ataggagggt ttcatagttg catctgaagc cacctggttc 120
tgttwawstg ttrtcgtgca ggtwkwgggt ttggcattat tcatgtttct gatcaattct 180
atgcaactct catagttcct gttacttttt agcattagct gccaaatgac ttcaaaaggc 240
tggggtgggt gacttgactg tgagactgga ttataacatg gacaaatctt attttgctta 300
atgtgtttgt gtgtgtgtgt gtgtgtgtgt gtgtatgtat atatatatat ataaatatct 360
ttcccaatat gccccgttga cagtgtttaa attcc 395

<210> 5164
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5164
cagaaaacta gcaggttaca ttttataggc tattgtagtt ttatttacca aatgatattc 60
tctaaatcac ttcgaccaat aaatgtattc tcctccttaa agcagagttg tatcaactct 120
gtgggagcat ttatgagctg tcagtcccca cacttctagc cagaatcaca ataaggtctg 180
gctgggtgtg gggtgctgca taggaaaggg tctctggaga agcaagaagg gcacaatcat 240
ggcccactgc tcccctcttc ttctcagtgc tctttgccct ctcctgctgc gatgcttcct 300

<210> 5165
<211> 300
<212> DNA

<213> Homo sapiens

<400> 5165
ccttcccacc ttgtgagttc tcccagcagt tcctggattc ccctgccaag gcactggcca 60
aatctgaaga agattacctg gtcatgatca ttgtccgtgg gtttggtttt cagataggag 120
ttaggtatga gaacaagaag agagaaaact tggcgctgac cctgttatag tggttatagt 180
ggtgtcccta aagggaggaa atgatttcag caaaactggt tgaacagcgg atgaagatat 240
ggaattcaaa gctctaatgg acctttttga agagaagttg tggcttatgt ggagtttaca 300

<210> 5166
<211> 655
<212> DNA
<213> Homo sapiens

<400> 5166
ccattgttag catcgtacac gattgtgatt tttatgtcaa aagaagccaa aacttgcaat 60
actattttta gcagacaaaa aaaagaacta agtataaaat gtataaatat ttttgacttg 120
aacatttgga tggcactggg tsmamgtaga gcatccatcc ttcggatgra atgtttggaa 180
aaaagagact tttaaaaagg agacggttgt tttaaagagt ctgtttaggg gttaaagtac 240
tgtaactcac gactgttaaa aaataaattt tcctgtgctg taaaggaagg tttcacagta 300
ccactgagtt agatttcagc cacagatgct tagcttttt ttttgtctt ttttttaagg 360
aggaagcctt tgttttgttt tcctgagccc tcactctgtt tttgtgctgt tactcggtag 420
agtcaagact gttacttttt agccatggct gacattgtat caataactaa aactgaaaca 480
ttcaaaagcg aacagggaaa ccgagggctt caagcgtgct cagagccgtt tcagacagtg 540
gaaatccatg acaaacaaaa ggatgtgatc attaattgta aagcgctttg taaaattcac 600
atttacaaaa taataaagtc agttcaaacc taaaaaaaaa aaaaaaaaaa aaaaa 655

<210> 5167
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5167
cacctgtgcc cccaggctca aggtctctgg caggtgcaca ccagcccaac tctgcagggc 60
ttctytccct gccaccaccc cccaagccag gaccccactc cttccccgag gctgagctga 120
gccttttcca ggggcagggc ccaggagacc attcccagaa tccatggggc agtagccagg 180
gctccggctg ctggaggaag cagctatcca caaagcttcc tgccccagag ctgaggctga 240
ggccccggga gaggcggccc ctacccaaac actggctgct ggcattccac caagtgaccc 300

<210> 5168
<211> 345
<212> DNA
<213> Homo sapiens

<400> 5168
ttacttttga ttgtgtctga tgggaactga gttgttggcc tttgtgaaat gaaatttttg 60
gctcttgaga aagaattctt atgaattgtt atgcgaattt tatatattta aagagggaga 120
tctggggctg ttatttttaa acacttttt tcataataca tattcccgag tagatattta 180
taaaatatat gtttctttca ttatgtgttt gtaaaattag agtttaaata aatatgcttt 240
gatgcatagt tttgaactaa tgtaacatga ttttttctttt ttaaaacagc ctgaaaatgt 300
actagtgttt aaaaataaag atttccattt tctccaaaaa aaaaa 345

<210> 5169
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(703)
<223> n = A,T,C or G

<400> 5169
cgcgacgggg gttcagggaa tatttactgg gcctctccgc tccctctgct cttggaggtg 60
ccatgaggtc agttagctac gtgcagcgcg tggcgctgga gttcagcggg agcctcttcc 120
cgcacgcaat ctgcctcgga gacgttgata acgatacgtt aaatgwacys gtsgygrsag 180
mcrycagmgc ggaaggtgtc tgtgtataaa aatgatgaca gtcggccatg gctcacctgt 240
tcctgccagg gtaatgctga cttgcgttgg ggttggagac gtgtgtaata aaggaaagaa 300
cctgttggtg gcagtgagtg ctgaaggctg gtttcatttg tttgacctga cacctgccaa 360
ggtgttggat gcttctgggc accacgagac actaatcgga gaggagcagn gnccagtctn 420
caagcagcac atccctgcca acaccanggt catgctgatc agcgacatcg atggagatgg 480
gtgtcgtgag ctggtggtgg gctacacaga ccgtgtggtg cgagctttcc gctgggagga 540
gctaggtgag ggtcctgaac atctgacagg gcagctggtg tccctcaaga aatggatgct 600
ggagggtcan gtnngacagn ctctcagtga ctctggggnc actnggtctt cctgaactga 660
tggtgtctca gccaggtngg tgcgttttgc aattctnctg ngt 703

<210> 5170
<211> 404
<212> DNA
<213> Homo sapiens

<400> 5170
acaaggacaa gaaagaaagt acggttgcaa cggctggctc gcatgcatgc cgacatgatg 60
gaggatgttg aggaagtata tgccggagac atctgtgcat tgtttggcat tgactgtgct 120
rgtggagaca cattcacaga caaagccaac agcggccttt ctatggagtc aattcatgtt 180
cctgatcctg tcatttcaat agcaatgaag ccttctaaca agaacgatct ggaaaaattt 240
tcaaaaggta ttggcaggtt tacaagagaa gatcccacat ttaaagtata ctttgacact 300
gagaacaaag agacagttat atctggaatg ggagaattac acctggaaat ctatgctcag 360
aggctggaaa gagagtatgg ctgtccttgt atcacaggaa agcc 404

<210> 5171
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5171
gttcccctct tcttgtgaga ctggtccagg cagcccttct ggacactgca tgatcacagg 60
agcagccctc tggcccataa tgacggccct gtcttcgcag gtggccactc gggcccgcag 120
ccgctgggta agggtgatgc ctagcctggc ttattgcacc ttccttttgg cggttggctt 180
gtcgcgaatc ttcatcttag cacatttccc tcaccaggtg ctggctggcc taataactgc 240
tgttgtcact ccactctcct aggcgctgtc ctgggctggc tgatgactcc ccgagtgcct 300

<210> 5172
<211> 593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G

<400> 5172

agcatgccct aaagagggac cagctgtagt aggtcagttt attcaagatg tcaagaactc 60
aaggtctaca gattccattc gtctcttagc tctactttct cttggagaag ttgggcatca 120
tattgactta agtggacagt tggaactaaa atctgtaata ctagaagctt tctcatctcc 180
tagtgaagaa gtcaaatcag ctgcatccta tgcattaggc agcattagtg tgggcaacct 240
tcctgaatat ctgccgtttg tcctgcaaga aataactagt caacccaaaa ggcagtatct 300
tttacttcat tccttgaagg aaattattag ctctgcatca gtggtgggcc ttaaaccata 360
tgttgaaaac atctgggcct tattactaaa gcactgtgag tgtgcagagg raggraccag 420
gaatgttgtt gctggaatgt ctagggaaaa ctcactctaa ttgatccagg aaactcttcc 480
ttccacggst ttaagggggt actttgattc agggttnatt catnattgnc ccgaaggttc 540
agtgggttta cgggctgttg aaattttnac aattttcttg naccctntcc aca 593

<210> 5173
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(447)
<223> n = A,T,C or G

<400> 5173
gacacattaa aagagagata tcaaaaaatt ggtgacacca aaaggaatac tcccattgaa 60
gctctctgtg agaactttcc agaggagatg gcaacctacc ttcgatatgt caggcgactg 120
gacttctttg aaaaacctga ttatgagtat ttacggaccc tcttcacaga cctctttgaa 180
aagaaaggct acacctttga ctatgcctat gattgggttg ggagacctat tcctactcca 240
gtagggtcag ttcacgtagg attctggtgc atctgcaata actygagaaa gccacacaca 300
tagggatcgg ccatcacaac agcagcctct tcggaaatca ggtgggttag ctcaaccaat 360
gggagagctg gatgttggat gatccccacg ggagccccan tcccaatggc acccattcac 420
agcttcatgc ccgaggtggg aggtagt 447

<210> 5174
<211> 1170
<212> DNA
<213> Homo sapiens

<400> 5174
gggtgcagtg gctcactcct ataatcccag cattttggaa gtcctatgca ggaggattgc 60
cagaggccag gaatttgaga tcagcctggg caacatagtg aaactctcat ctttataaaa 120
agtaatatta aaatttttaa aagtgtataa actgtaaagt atattttact ggtgtttttct 180
tccttattcc tacttgtcag atgcaaatac acatttttgt gtgtttgtgt ttagtaatta 240
taagtataca tatttcattc ttctatttca tatatttcta tgacattata tcttagatgt 300
gtaatttatg aactactact ggattatttt aatccattag aaattactat tcacgcattc 360
tgtattcaat tcatgtgata gctaatatat ttggttttaa atgcatctta ttttgtggtt 420
ttcttctagg ctgtttttg tgctttcttt taaaaatata taggttttaa taatcttaat 480
tttcttttag tttgaaatgt atatactcat tttattcatt agtctaagat aagaattgta 540
acacttctct aacctattat agaattgtta ataccttac ccttctcttg aacacatcaa 600
aggatgtcat tgagtgttgg tattggagta tagcatatct attattctgc tcaattagaa 660
gatattgttc atgttgtata gagataataa gtaattgtat tgatctgcag atgcatccat 720
ctcttggatt ctcattcctt ctaccactgc agaactttca cctgtaatca ctttcctttg 780
gccttaagga taacttttag ggttactttt ctactaaatt tccaattttt gaccagatat 840
aatcttatat tgtgctcttc ctgaaaaata ctattgttgt ggatagaaat ctgggttggt 900
agttatttct tcagcaattt gaccatgtca ttccactgtg tccctggcct cctgtatact 960
ggatgtgaat ggatacaatt atatattgtg tttatagttt tcctgtgcta taggaacagt 1020
attccccgaa tctgatgcaa aggacaacac accctagaga ttgtaacagt gagatgaacc 1080
aagtgattgg atggggtttt gagttgctgg aataatggag ttacagtgta caatgcataa 1140

gcaacataat aaattatata tctggtgaac 1170

<210> 5175
<211> 301
<212> DNA
<213> Homo sapiens

<400> 5175
cgccgcacag ctgctgaatg scttggrryt wgstggygcr ttwcmkcrms ymgsrcstga 60
agctcagccc tggccaggtc cagaccttcc tgctgtgggg agcaggggcc ctggtcgtct 120
actggctgct gtctctgctc ctcggcttgg tcttggcctt gctggggcgg atcctgtggg 180
gcctgaagct tgtcatcttc ctggccggct tcgtggccct gatgaggtcg gtgcccgacc 240
cttccacccg ggccctgcta ctcctggcct tgctgatcct ctacgccctg ctgagccggc 300
t 301

<210> 5176
<211> 349
<212> DNA
<213> Homo sapiens

<400> 5176
ctgagatctg cttttactga agtggatcaa tgatgaaact agccaaatct gagcatcaga 60
agkctttccr gtctacctga tgcatgatct ctacagttct gagaagcara actataaaac 120
aatgtaaaac aataagggca tatgtctggt gtgtgtgtgt gtgtgtgkgk gtgtgtgtgt 180
gtgtgyacsc acaygtgttt ataaagrtar cagytgtagg aatgaatgag attgrgggtg 240
rgggggtgcr tatgtatgtc tatgaaagcc taatcatttc tgggcaatga tgwaaaggtt 300
ttackactga tctttgtaac tatgatggtt tctacacttg acctgggct 349

<210> 5177
<211> 907
<212> DNA
<213> Homo sapiens

<400> 5177
gctgtacgga gagtgctgga ccgaggggag ctgggagcag gtactgcctc catcctgagc 60
tgccgtcctt tgaagggaga acctggggta gggttcgagg agcctggcra gaactgtgca 120
cctcctcggg aggagcagcc ccctcctgtg ctgctttccc cctcccttca atatgctggg 180
gcggagacyc kggcctccaa agtgcaattc cgggacccca aatcccagcg gacgcaccag 240
gctcaggtgg cgttccaggt gtgtgtgcgc cctggctcct acaccccggg acccccttcc 300
gctgcccttg gagaacctcc tgaccctcac ttcagtccag ccgaacttga gtgggtcact 360
aaggagaagg gggccacact cctctgtgcc ctgctggtac gggtggaatg aggggtgaga 420
caccactact acaagcacag tcgggccgcg ggcattggga ctctgagtgg cgactgctcc 480
acctcattcc cgtgactcgt ggcatgcgca ggtgctggar cttggcagcc gcgcaggagc 540
atgtaggcag gctctcagat gtaggtggca agtggcacag ctccatgtcc ggaggcccag 600
cactccgtct gatgggagga gycgtgggag cccagctcca ggccctggta cccctcttca 660
tgcactgatt tggggaacat gactcccttt tactccccta ccccacatca cttaatttat 720
ttccgttttt gtttctggtt actgtgaatc ccagaggagt ctctccctgt gcccacatga 780
agctgctttt tccggggcca ccgggcggga gtggggaagg gtgggcgcac ggaagatggg 840
ggcctctgta cagttgttac tgactctgat ttctaaggag ccaataaaca ccgtctcaga 900
aaaaaaa 907

<210> 5178
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(865)
<223> n = A,T,C or G

<400> 5178
actttttaa cgaatggggg aagggatcta tgagaaaggt ggtatctaat ttttttatgg 60
accataaagg tttaaaagaa aataggggca caggctgttg aggtttttat gttgttatag 120
acctttttaa attatgttag agatgtatat aggtatttaa aggtcactgg gagcgtttct 180
gattcccggc cacactttgc atttcaacac tcagcccgga aagatgctcg ttcggttgtt 240
ggacctcttt cactccctgc gtgtaagaag gtgaatcacg tgggaaaaag tggmtyytya 300
gtaaacgggt acagctcatt ctttctgaga aggccccagg tcctgctccc tcctcggatt 360
tgattgtctt ccgtgctttg cctcactcgt agtaaatgac catccataga atatgtgaat 420
ctttggtgag cttcagtggg cagagtgaag tcccgcatta gcatttaggt gccctgagct 480
gtttctgcca atagattaga aagcagccat gagttgacag tctttagggc ccctgccagt 540
gtgcaattag tcattgacaa gaacaatgcc atttgagagt gaggtggtcc ctgctgctac 600
gaggccattg tactgttttt tccttgaggt caaagcagtg cttcccatag agtttgctgc 660
ctcttctgtg gacaggaaga aaacttcatg accgaatcag agccttggtg gccactgact 720
ctcgtgctta ttgcagatgc tgtggttggc ctcacaagca acgccttatg ctgatgtgca 780
gaggtgccag ctgccawttt gccaaactct gcatttcatt tcatctaang gyttargccc 840
ctcttncttc cgggggttan ccgtg 865

<210> 5179
<211> 952
<212> DNA
<213> Homo sapiens

<400> 5179
tgcaacatca ctgatatcag catcctttaa aatattatct gmywcttgtt ctragagcma 60
saaagctggg aattcyttga yaragtkawk masaatgcmk mcawaatgaa tgcatgyasr 120
ctrytrtggt ttactagaca tcaaagtaaa ggagcagtct ttggaaaatc taatcaaggg 180
aaggaagatc tatgaacctc cacggtatat gagtgtaaac caagcagccc agcagcttct 240
ggagattgtt caaaatcaaa gaatacgagg agaagaacca gcagttaccg aggagacact 300
ttgtgttggc ttagccaggg ttggagccga cgaccagaaa attgcagcag gcactttaag 360
gcaaatgtgc actgtggact tgggagaacc attgcattcc ttgatcatca caggaggcag 420
catacatcca atggagatgg agatgctaag tctgttttcc ataccagaaa atagctcaga 480
atctcaaagc atcaatggac tttgaacata gatatttacc attgtctgat gtaaatttca 540
gccatatatg gattgatatg gtttggatgt atccccaccc aagtctcatc ttgaatttta 600
atcctcataa ttcccaggtg ttgtggtagg taattgaatc atgggggcag tttccctcat 660
gctattctca tgatagtgag ctttcatgag atctgatggt tttataagtg cctggcattt 720
cccctactgg ctctcattct cactcttgcc gccctgtgaa gaggtgcctt ccaccgtgat 780
tgttaagttt cctgaggcct tcccagccat gtggaactgt gagtcgaaaa ttaaacctct 840
tttataatta cccagtctcg ggtatttctt catagcagtg tgagaatgga ttaatacctg 900
gatgcatgca tgtttgtgta acaaacaggt cttttggctt atctagtaag ta 952

<210> 5180
<211> 657
<212> DNA
<213> Homo sapiens

<400> 5180
gtatcacctg agcaaatctt ttaaattata cattctgtga tatttccttg actttcttat 60
ccagcacttg tattgattat ttttcatttt gataatgttg ggtttttaaa aactccttta 120
tgatggaaaa tttcaaacat acacaaaagt agagagagaa tggtataata aacccactca 180
gttttaagga ttgtcaacta ataccagttt tatttcatgt atgactccaa caacttcccc 240
aaccagcctt cagattattt gaaagcaaat ttcagacatc gtattttact catacatttt 300

ctagtatcta aatctggaag agactctttt ctaacagttc tgtagcatta attatactca 360
tactgttgtg caacaaatat ccagaaatct tttgtcttgc gaaactgaac ctcttaccca 420
ttaaacacta actccctttt ttttcaccct gaaccatkgg caaccacaat tttactttct 480
ttttctgtga gtttgattac ttgatacttc atgtgagtgg aatcatataa tayyystctt 540
tytgtgactg acatttttatt tagcttaatg tcttcaagtt tgacccatac catatcatgt 600
ggcaggattt ttccctttttt tttttttca gacggrgytc gytctgtcgc caggtgg 657

<210> 5181
<211> 969
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(969)
<223> n = A,T,C or G

<400> 5181
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ggatggggca gcaggggacc gggacctgcg ggcagctgtg gtgaatcagg acgctgagga 120
gccaggaggc ctkcctggag gcggtgctac gtcgactaca ggsacagtgt cggcaggaac 180
tggccaggct ggtgggagcc cgccctggtc tcatctggat cccgccacct ggacgctgag 240
ggcctgtcga cgggccctcg tgtgggaagc ctgccctggc ccagcctggc tgggtcttgg 300
aggagcagat tccaaggcag gtggcgcagg gacgatgcag atgcagagcc cacgtcacat 360
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cactggggac aggaatggct ggtcccttga ggaggtcgtg acaggctcag cctggtggtc 480
tggaggggac tcggaaataa attgtagcag ctttcctgcc gctggccctc cccctgccac 540
cctgtcgggt ttccctgttt gggggtggga gcgtggagga gcccctggca gttggtggcc 600
agtgtagggc tggccaggtn ctggaggaca tgcatacccc agcactggtg agtggcagga 660
ccacggggag gtggcacagg cctccctgga gcnggattat ctcggccccg ccccccttca 720
tttgggctcc cgctgtgggc ctggcctggg ctgtgagcac agcttgcccc nacctccggc 780
catggctgtg nctggtgggt ncgccggatg ggagcccggg gctcttgctt cctttncccg 840
ggaagttggt tgcttccggg tngggaggna cagcattggn acaagagggg ttttntttcc 900
anaggctgtt caagcaaagt tnaagttgat tccctgacaa agaagcatnt gttttcccgg 960
ngaacttgc 969

<210> 5182
<211> 280
<212> DNA
<213> Homo sapiens

<400> 5182
gaggagttaa attttgaagc tctttgagaa aggtaccttt tcttaacatg ttkkwtaaat 60
aaaaatacaa tggcttattt aaaatgtccc tatgcatggt gaaatgttaa ataccaagtg 120
gatgaatggt tctcaaatat attgtaatgg agaattattc acatgcatct attgtttaaa 180
ctaataagta aaatagactt ccttttttctg ttctgtttta aatgtgcact aaaattacct 240
gcttgtggtt aagcatgggc tggacagttt attgattttt 280

<210> 5183
<211> 758
<212> DNA
<213> Homo sapiens

<400> 5183
gccacacggg cccgcatcat ccctgcaatc tggttccgct acgacctcag ccccatcacg 60
gtcaagtaca cagagagacg gcagccgctg tacagattca tcaccacgat ctgtgccatc 120

attggcggga ccttcaccgt cgccggcatc ctggactcat gcatcttcac agcctctgag 180
gcctggaaga agatccagct gggcaagatg cattgacgcc acacccagcc taatggccga 240
ggaccctggg catcgccagc cttgcctcca gtgccctgtc tcctttggcc ctcaatctgg 300
tcccaaatct ggctgtgtcc caaagggtgt gtgggaagtg gggggaaagt agaggatggc 360
tcgatgtttt gcagctacct cttttccccg tgtttctttt tagacaaatt acactgcctg 420
aagttgcagt tccccttcc ctggggagcc ccaagaacag agtcaggcaa ggggtgggga 480
gtccagggat cttggggacc cctcctagga gagctgcagt ctcttccctc aggggaacat 540
cccagaatgc atatcgatca gctctcagcc aggcttcgac aatctcgcag cccccactag 600
gtggacacat taatgatttk gtttctcccc tgggcagcca acctgcccca gaggcaccag 660
acctgggctt tctagctttt gggaccaggc tgcccaaagg tactccttta tacacccggc 720
accttccacg gagatgggta ctttcccaag caagcccc 758

<210> 5184
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5184
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tttgactaag cctccctccc ctactccctc ctttccttcc ttccttcctt cttctctatc 120
aatataatca ctttgtttct ttcaggtgag atcggactgg aactgttcgg ctgcgaccag 180
aaatttattt tcctgagtaa attgccgaga attaagaatg aagagggcca tttgcatctc 240
cttaaattat tcagttacct gctttattgc tccatgtgga aaacttaaaa ttgttaagtt 300

<210> 5185
<211> 333
<212> DNA
<213> Homo sapiens

<400> 5185
atccagagaa atgatgtgcc ttgtgtaaag ttgtggttag gaagggacag agccaggact 60
ctaaattctg tcctccggcc ataattccaa aactttctcc aatgttaggt atgtaggcta 120
aaatgtgcta acagcacttg tgtttttgtt tccttttgtt ttacttttta ttatggcaaa 180
tttcaaacat atacagatac agaatagttt aatgaactcc catgttctca tcatgccagt 240
tcaaacatga atacatggtc aaccttgtat cacttaaact cytgcasaca agccctgccc 300
catcctgttg ttttgaataa aatccatcat tgt 333

<210> 5186
<211> 555
<212> DNA
<213> Homo sapiens

<400> 5186
aaaacactat ttacctattt tccaaggaag gaagtattga gattgacatt ccagtcccca 60
aatacttatc ttctgtgagc tcacaagaaa ctcagggcgg ccccccttagc tcctatgact 120
ggaacccatt gaaaaggtgt ttgtcaaagc tggagacaaa gtgaaagcgg gagattccct 180
catggttatg atcgccatga agatggagca taccataaag tctccaaagg atggcacagt 240
aaagaaagtg ttctacagag aaggtgctca ggccaacaga cacactcctt tagtcgagtt 300
tgaggaggaa gaatcagaca aaagggaatc ggaataaact ccagcaagga aatggccagt 360
taagtagtgt cttctctctc caccaaaaag aggaagtgcc tccagctttt ctgggggtct 420
cataaagagc agttttacta aatgattgta tgcttatgct gaacaccttt catattggag 480
aatcatgcat ttgggtcact aattatctca aaatatttca tactaataaa gttgaattat 540
tttttattgg aagcc 555

<210> 5187
<211> 1029

<212> DNA
<213> Homo sapiens

<400> 5187
aacaggaata tggaaagaaa ctcagagccg agttagtgga aaagtggaaa gcagagagag 60
aggctcggct ggcaagagga gaaaaggaag aggaggagga agaggaggaa grgatcaaca 120
tctatgcagt caccgaggag gagtcggacg aggaaggcag ccaggagaaa ggaggggacg 180
acagccagca gaagttcatt gctcacgtcc ctgttccctc gcagcaagag attgaggagg 240
cactggtgcg aaggaagaaa atggaactcc tccagaagta tgcaagcgag accctgcagg 300
cccaaagtga agaagccaga aggctcctgg ggtattagga cccagctggg gctctccttg 360
gagttcttcc atcccccagt ggtacctcag gacccagggc tkcagacaca ggctggtgct 420
gcaagggctc ctgccccatt ctcagccttc cttccctctc cttgtctcat gttgaccgga 480
gggtaggggt ctgtccctgg tcttcctggt aggttttgta cacatatttt gctactgtgt 540
ggatccattt atttttattg tggagtgtat acaacaggtt gcgaactggc tgcctgtgtc 600
ttattttgac ttgcactgcc attttgaggg gagaagaatc aattagtggc aaacatttaa 660
aaatgcaatt ttttgcagac caaagtataa ttttaaaaaa tgcaaatttt ctaaaagaca 720
catctcttga aaaatgagat gatgtggcca ggcgcaagtg cacgcctgta accccagcac 780
tttgggaggc cgaggcgggc gggtcacgag gtcaagagat ggagaccatc ctggccaaca 840
tggtgaaacc ccatgtctac taaaaataca aaaaaattag ctgggcgtac tggcatgcac 900
ctgtagtccc agctgcttgg gaggctgagg caggagaatc acttgaaccc gagaggtgga 960
ggttgaagtg agcaagactc gtgccattgc actccagcct ggcgacagag tgagactctg 1020
tccccccac 1029

<210> 5188
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(416)
<223> n = A,T,C or G

<400> 5188
gnnctataga atacaagcta cttgttcttt ttgcngganc ccwtckagws kgaattatag 60
tattgacgtg aatcccactg tggtatagat tccataatat gcttgaatat tatgatatrg 120
ccatttaata acattgattt cattctgttt aatgaatttg gaaatatgca ctgaaagaaa 180
tgtaaaacat ttagaatagc tcgtgttatg gaaaaaagtg cactgaattt attagacama 240
cttacgaatg cttaacttct ttacacagca taggtgaaaa tcatatttgg gctattgtat 300
actatgaaca atttgtaaat gtcttaattt gatgtaaata actctgaaac aagagaaaag 360
gtttttaact tagagtagcc ctaaaatatg gatgtgctta tataatcgct tagttt 416

<210> 5189
<211> 572
<212> DNA
<213> Homc sapiens

<220>
<221> misc_feature
<222> (1)...(572)
<223> n = A,T,C or G

<400> 5189
aatggcctgc ctcacacgtc agccagaacc cagctgcccc agtcaatgaa gattatgcak 60
gagatcatgt acaaactgga agtgctctat gtcctctgcg tgctgctgat ggggcgtcag 120
sraaaccagg ttcacagaat gattgcagag ttcaagctga tccctggact taataatttg 180

tttgacaaac tgatttggag gaagcattca gcatctgccc ttgtcctcca tggtcacaac 240
cagaactgtg actgtagccc ggacatcacc ttgaagatac agtttttgag gcttcttcag 300
agcttcagtg accaccacga gaacaagtac ttgttactca acaaccagga gctgaatgaa 360
ctcagtgcca tctctctcaa ggccaacatc cctgaggtgg gaagctgtcc ttcaacaccg 420
acaggagttt gggtgtgtga tggggaagag ggggcttatt taactcgtct ggttgcaggt 480
tcatggaaga agggagccag caggagtcgt cttttcaggt tttnggcaag ctcggggntg 540
ttgggagagt tttcctcccg aggggaccac ct 572

<210> 5190
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5190
taagaatcca ccaccaccca tcaattttca ggaatgggat ggtctagtaa ggataacctt 60
tgttaggaaa aacaagacac tctctgctgc atttaaatca agtgcagtgc aacaactctt 120
ggaaaaaaac tacagaattc actgttcagt ccataatatt ataataccag aagatttcag 180
catagcagat aaaatacagc aaatcctaac cagcacaggt tttagtgaca aacgggcccg 240
ttccatggac atagatgact tcatcagatt gctacatgga ttcaacgcag aaggtattca 300

<210> 5191
<211> 553
<212> DNA
<213> Homo sapiens

<400> 5191
ggtacacgaa gaggtgataa tgacagccac caaggagatt tggagcccat tttagaggca 60
tctgttctat cttcccatca taaaaaaagc tctgaggaac atgaatacag tgatgaagct 120
cctcaggaag atgagggctt tatgggcatg tcccctctct tacaagccca tcatgctatg 180
gaaaaaatgg aagaatttgt ttgtaaggta tgggaaggtc ggtggcgagt gatccctcat 240
gatgtactac cagactggct caaggataat gacttcctct tgcatggaca ccggcctcct 300
atgccttctt tccgggcctg ttttaagagc attttcagaa tacacacaga aacaggcaac 360
atttggacac atctcttagg tatgtaatgt cagtgatgta atgagctggt gattcacttt 420
cttccttttt attttcatgt atttgagggt aagcacagaa cttcagaaat gtatttggat 480
ttgccatttt gttttctgaa tttctaatga tgaattttct gactggttta ctcgtagttt 540
atcctggttt gca 553

<210> 5192
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5192
atcagtatga actcttaaaa catgcagaag caactctagg aagtgggaat ctgagacaag 60
ctgttatgtt gcctgaggga gaggatctca atgaatggat tgctgtgaac actgtggatt 120
tctttaacca gatcaacatg ttatatggaa ctattacaga attctgcact gaagcaagct 180
gtccagtcat gtctgcaggt ccgagatatg aatatcactg ggcagatggt actaatatta 240
aaaagccaat caaatgttct gcaccaaaat acattgacta tttgatgact tgggttcaag 300

<210> 5193
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5193
gaaccaagaa aatatttaaa aatctaagca gtcctttgct cattaaagga taaatcagta 60

gttaacactt tttctacaaa gaaatggtgt gcctggatgg tcgtgtaggt gagttttacc 120
aaggattatg gtaacaaatg agtgagacct ctatggagaa aatattgaag gacattaaag 180
aagacctcat aaatggagag agatatatca ttaatggata ggaagcctca atggcataag 240
tatgtcagtt tctttcaaaa ctcacctatg gattcaatgt gattccaaac caaatcccaa 300

<210> 5194
<211> 575
<212> DNA
<213> Homo sapiens

<400> 5194
ggacaagtcc aagaaactgg cggagcaggc tgcagccatc gtctgtctgc ggagccaggg 60
cctccctgag ggtcggctgg gtgaggagag cccttccttg cacaagcgaa agagggaggc 120
tcctgaccaa gaccctgggg gccccagagc tcaggagcta gcacaacctg gggatctgtg 180
caagaagccc tttgtggcct tgggaagtgg tgaagaaagc cccctggaag gctggtgact 240
actcttcctg ccttagtcac ccctccatgg gcctggtgct aaggtggctg tggatgccac 300
agcatgaacc agatgccgtt gaacagtttg ctggtcttsc ctggcagaag ttagatgtcc 360
tggcaggggc catcagccta gagcatggac caggggccgc ccaggggtgg atcctggccc 420
ctttggtgga tctgagtgac agggtcaagt tctctttgaa aacaggagct tttcaggtgg 480
taactcccca acctgacatt ggtactgtgc aataaagaca ccccctaccc tcacccacgg 540
ctggctgctt cagccttggg catcttcata aatgg 575

<210> 5195
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 5195
aagcagcttg gggctcactc cccctccacc ttgctgacca ccctcatgtt ctttaatacc 60
aagtacttcc tattgaagac agtggaccag cacatgaagc tggccttctc caaggtcttg 120
cgacagacaa agaagaaccc ctctaatccc aaggataaaa gcacgagtat ccggtacttg 180
aaggcccttg gaatacacca gactggccag aaagttacag atgacatgta tgcagaacag 240
acggaaaatc cagagaatcc attgagatgt cccatcaagc tctatgattt ctacctcttc 300
aaatgccccc agagtgtgaa aggccggaat gacacctttt tacctggaca cctggaggcc 360
agtgggtggg ccccccaaca ggcccaatct ggttaytcag tccagcctat tcaggcagag 420
aggcagatgg gggacaattg tttgacgcgg gttcnggggt gattaaggag gaanttt 477

<210> 5196
<211> 555
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(555)
<223> n = A,T,C or G

<400> 5196
cccaggatga actggttgca gtggctgctg ctgctgcggg ggcgctgaga ggacacgagc 60
tctatgcctt tccggctgct catcccgctc ggcctcctgt gygcgctgct gcctcagcac 120
catggtgcgc caggtcccga cggctccgcg ccagatcccg cccactacag ggagcgagtc 180

aaggccatgt tctaccacgc ctacgacagc tacctggaga atgcctttcc cttcgatgag 240
ctgcgacctc tcacctgtga cgggcacgac acctggggca gtttttctct gactctaatt 300
gatgcactgg acaccttgct gattttgggg aatgtctcag aattccaaag agtggttgaa 360
gtgctccagg gacagcgtgg gactttgata ttgatgtgaa cgcctctgtg tttgaaacaa 420
acattcgagt ggtagggagg actcctgtct tgttcatctg cttttccaag aaggctgggg 480
tgggaagtag aggctggatg ggcctgtttc cggggctttt ccttgagaat tggctnagga 540
nggcggcccg aaaat 555

<210> 5197
<211> 1175
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1175)
<223> n = A,T,C or G

<400> 5197
agattatgag catgtagaag atgaaacttt tcctcctttc ccacctccag cctctccaga 60
gagacaagat ggtgaaggaa ctgagcctga tgaagagtca ggaaatggag cacctgttcc 120
tgtacctcca aagagaacag ttaaaagaaa tatacccaag ctggatgctc agagattaat 180
ttcagagaga ggacttccag ccttaaggca tgtatttgat aaggcaaaat tcaaaggtaa 240
aggtcatgag gctgaagact tgaagatgct aatcagacac atggagcact gggcacatag 300
gctattccct aaactgcagt ttgaggattt tattgacaga gttgaatacc tgggaagtaa 360
aaaggaagtt cagacctgtt taaaacgaat tcgacttgat ctccctattt tacatgaaga 420
ttttgttagc aataatgatg aagttgcgga gaataatgaa catgatgtca cttctactga 480
attagatccc tttctgacaa acttatctga aagtgagatg tttgcttctg agttaagtag 540
aagcctaaca gaagagcaac aacaaagaat tgrgrgaaat waaccaactg gccytggaaa 600
gaaggcaggc maagctgctg agtaatagtc agaccctrgg aaatgatatg ttaatgaata 660
cacccagggc acacacggtt gaagaggtta atactgatga ggatcaaaag gaggagtcaa 720
atggattaaa cgaagacatt ctggacaatc catgtaatga tgctattgcc aatactttaa 780
atgaagagga aacactgctg gaccagtctt ttaaaaatgt gcaacagcaa cttgatgcta 840
catccagaaa tattactgaa gctagataag tttccattaa gagaaaatgt atctgttaag 900
tcatcgtcct gcaagcttgg cgttactatg tatttttct tcttggagtg aaaatcctta 960
gatagtaaaa ctgttataga ttattgttta aaatctgata atctggtatt tatttataat 1020
tatggggctt gtcactttag ttaaatctat ttgtnctctt tagtgtttgt ttttatatag 1080
gtatttcttc ataaaatgat taggaggtaa tangcagttt ctgctgctgg tctgtcattg 1140
aatgccttgt tttcactaag ttgggaggtt tggtt 1175

<210> 5198
<211> 752
<212> DNA
<213> Homo sapiens

<400> 5198
gtccgaagaa aaagactgtg gtggcggaga tgctctctcc aatggcatca agaaacacag 60
aacaagtttg ccttctccta tgttttccag aaatgacttc agtatctgga gcatcctcag 120
aaaatgtatt ggaatggaac tatccaagat cacgatgcca gttatattta atgagcctct 180
gagcttccta cagcgcctaa ctgaatacat ggagcatact tacctcatcc acaaggccag 240
ttcactctct gatcctgtgg aaaggatgca gtgtgtagct gcgtttgctg tatctgctgt 300
tgcttctcag tgggaacgga ctggaaaacc tttcaaccca ctgctgggag agacttatga 360
attagtgcga gatgaccttg gatttagact catctccgaa caggtcagcc atcacccacc 420
aatcagtgca tttcatgctg aaggattaaa caatgacttc atctttcatg gctctatcta 480
tcccaaactg aaattctggg ggaagagtgt agaagcagaa cccaaaggaa ccatcacctt 540
ggagctcctt gaacacaatg aggcatatac atggacaaat cccacctgct gtgtgcataa 600

tatcattgtg ggtaaactgt ggatcgaaca gtatggcaat gtggaaatta taaaccacaa 660
gactggggac aaatgtgtgt tgaattttaa gccatgtggc ctttttggta aggaattaca 720
caaagttgaa ggctacattc aagataaaag ca 752

<210> 5199
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5199
aagagaagct gagacttctg cttccacacc ccctgcaagt gctttcttga aggcctgggt 60
gtatcggcca ggagaggaca cggaggagga ggaagatgag gatgtggata gtgaggataa 120
ggaagatgat tcagaagcag ccttgggaga agctgagtca gacccacatc cctcccaccc 180
ggaccagagg gcccacttca ggggctgggg atatcgacct ggaaaagaga cagaggaaga 240
ggaagctgct gaggactggg gagaagctga gccctgcccc ttccgagtgg ccatctatgt 300

<210> 5200
<211> 530
<212> DNA
<213> Homo sapiens

<400> 5200
ggatttctcc tccttccgcg ctttctgcgt gacactggct gtcagctctg ggctgggctt 60
tctgggggcc acacagctgc tgaggcggcg ggttgaggcg gcccgaaagg acccagggtg 120
ctcaggcctg gttgtggata gcggcctgtg tggagaggag ctgcttgtrg gcagtgagga 180
ggcggacagc atcaccttgg gccggtatct ccggcagctg gcacgccatc ggaacttcct 240
gtggttcgtg agcatggacc tggtgcaggt cttscastgs cwctwcrmcw gyaayyycwk 300
cmctctcttc ctggagcatc tgttgtccga ccatatctcc ctttccacgg gctccatcct 360
gttgggcctc tcctatgtcg ctccccatct caacaacctc tacttcctgt ccctgtgccg 420
gcgctggggc gtctacgcgg tggtgcgggg gctcttcctg ctcaagctgg gacttagcct 480
gctcatgttg ttggccggcc cggaccactc agcctgctgt gcctcttcat 530

<210> 5201
<211> 837
<212> DNA
<213> Homo sapiens

<400> 5201
atacactgca tttgctggtg ctgtttttat atagtgaagc aacagctgta cagcaaaata 60
ataaaatact cacttcttcg ttaaaaaaaa aaaaatttac ttcttacaat tctggaggcc 120
aggaagacca tgatcaggtg ccagcatctg ggaagggcct tcttgctgtc ctcccatggc 180
agaagatgga agggcaaggg agagctaaca tgctcccgca aacccttttt ataatggcat 240
caatcaaata tgaggccaga gtccttgtga cctaatcatc tcccaraagg ctccgcyycc 300
aaccctgttg cattgggatt aagtttccaa cacatgaatt gtggagacaa cacattcaaa 360
acatagcatt ccacaccttg ggctccccag attcatgtcc tcacatgcaa aataaattca 420
ttccatccca atagccccta aaaagtctta acttgttcca gcatcaactt taaagtcaaa 480
gtccaaagtc tcatctaaat cagatatgag tgagactcaa ggcatgattc atcatgagac 540
aaaggatgta catttgcaat gtttgtcatg tcagacaaaa caaaaatatg taaatatcca 600
tcaataggga actgctgaaa aatttttttg tataatcata aaatgaaaca tgcagatgtt 660
taaaccaatg agctagatct caacgtgctg atatggaaag tgcttcagaa tgtattaagg 720
acataaatta agtgtacaat aatgtgtgtg tgtgtatata tgtatatgct tacgtgtgta 780
tggaaagtat ctcagcagat acaataaaaa cttaattgtg attaaaaaaa aaaaaaa 837

<210> 5202
<211> 589
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(589)
<223> n = A,T,C or G

<400> 5202
caagaagaaa catggcggct atccttctct cacatcgaaa aggaaatttt gaacaatcat 60
ggaaaatcta aaacgtgctg tgaaaacaaa gaagagaaat gttgcaggaa agattgttta 120
aaactaatga aatacctttt arwwcrgcws aragaaaggt ttaaagacaa aaaacatctg 180
gataaattct cttcttatca tgtgaaaact gccttctttc acgtatgtac ccagaaccct 240
caagacagtc agtgggaccg caaagacctg ggcctctgct ttgataactg cgtgacatac 300
tttcttcagt gcctcaggac agaaaaactt gagaattatt ttattcctga attcaatcta 360
ttctctagca acttaattga caaaagaagt aaggaatttc tgacaaagca aattgaatat 420
gaaagaaaca atgagtttcc agtttttgat gaattttgag attgtatttt ttagaaagat 480
ctaagaacta gagtcaccct aaatcctggg agawtacaag awaaatttgg aaaaggggcc 540
agacgctgtg gcttcacacc tgtagttccc agcttctttt gggngggcc 589

<210> 5203
<211> 551
<212> DNA
<213> Homo sapiens

<400> 5203
gcatttggcc cattggccgc attctgctga cccatcacct tggtgctttt tctgcttttt 60
ctcygtygtm ctctgtgtgt gttcctttgt cctgatcctt gtcaccttgt gggtccaaaa 120
tggttccact agcctcatgg agcctggcct tacattgcag agtccaaagc aggagctgag 180
ggaaaatgaa aaacaacttc ttcatcaccg gaagcccagc aaacttctcc ttaaaaatca 240
ctggtcaggg ctgggtgcag tggctcacac ttgtaatgcc agcactttgg gaggctgaga 300
tgggcagatc acctgaggtg aggagttcga gaccagcctg gccaacatgg tgaaacctca 360
tctctacaaa aatgcaaaaa ttagccgggc ctggtggcgt gtgcctgtaa tcccagctac 420
tcaggaggct gaggcaggag aatttcatga acctgggagg cggaggttgc agtgagccaa 480
gactgtgcca ctgccttcca gcctgggtga cagaatgmga ctctatcttt araaacacaa 540
aacaagtcga c 551

<210> 5204
<211> 345
<212> DNA
<213> Homo sapiens

<400> 5204
gtccagaaat actctgatac tagctatggt cagcaacatt taatgaaaac scttatgtta 60
aaaataaacc cctgcctcct ggcttcaagc gattctcctg cctcagcctc ctgagtagct 120
gggagtatag gcacgtacca ccacacccag ctaatttttt gtatttttac tagagatggg 180
tttcacagtg ttagccagga tggtttcgat ctcctgacct catgatccgm ccgcctmggc 240
ctcccaragt gctgagatta caggcgtgag tcactgtgcc cggcctcaaa atsttargaa 300
aaggttcttt tgggtgcatg gagttttaca tgggaataaa ttagt 345

<210> 5205
<211> 458
<212> DNA
<213> Homo sapiens

<400> 5205
ggatattcat taccctgaga atgaaatgac ctgcaattcg aaaatcagct gtatcagttg 60

gagtagttac cataagaacc tgttagctag cagtgattat gaaggcactg ttattttatg 120
ggatggattc acaggacaga ggtcaaaggt ctatcaggag catgagaaga ggtgttggag 180
tgttgacttt aatttgatgg atcctaaact cttggcttca ggttctgatg atgcaaaagt 240
gaagctgtgg tctaccaatc tagacaactc agtggcaagc attgaggcaa aggctaatgt 300
gtgctgtgtt aaattcagcc cctcttccag ataccatttg gctttcggct gtkcagatca 360
ctgtgtccac tactatgatc ttcgtaacac taaacagcca wtcatggtat tcaaaggaca 420
ccgtwaagca gtctcttatg caaagttttt gagtggtt 458

<210> 5206
<211> 548
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(548)
<223> n = A,T,C or G

<400> 5206
atggtgtttt cacctggaag ctgagaagaa aggggcttta atggaacaaa tagcacatca 60
agctgttgta atgcagttta ttatggaaat ggccaaaaac tgtaatgtgg atccaagagg 120
gtgttttcgt ttatttttcc agaaagccaa agcagaggaa gaaggttatt ttgaagcatt 180
caaaaatgaa cttgaagctt tcaagtcaag agtaagactt tattctcaat cacaaagttt 240
tcaacctatg acagttcaga atcatgttcc ccattctggt gttggatcta taggtttatt 300
agaatcctta ccacagaatc cagattatct tcagtattct atcagtacag ctctctgcag 360
cttaaactcg gtggtacata aagaagatga tgaacccaaa atgatgggac actgtataat 420
ttgggttaag actgctgagg ccaagtgcta ttttgttaca ggaaagggag gaacttgggc 480
tattttcttg gacactttta tgggggtgct ggcactttat tttttgttcc ggtttttgtn 540
ggggnggg 548

<210> 5207
<211> 934
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(934)
<223> n = A,T,C or G

<400> 5207
aaaacataat ttctgtttca tggagatgaa tacaaggctg caagtggaac atcctgttac 60
tgagatgatc acaggaactg acttggtgga gtggcagctt agaattgcag caggagagaa 120
gattcctttg agccaggaag aaataactct gcagggccat gccttcgaag ctagaatata 180
tgcagaagat cctagcaata acttcatgcc tgtggcaggc ccattagtgc acctctctac 240
tcctcgagca gacccttcca ccaggattga aactggagta cggcaaggag acgaagtttc 300
cgtgcattat gaccccatga ttgcgaagtg rntcgtgtgg gcagcagatc gccaggcggc 360
attgacaaaa ctgaggtaca gccttcgtca gtacaatatt gttggactgc mcaccaacat 420
tgacttctta ctcaacctgt ctggccaccc agagtttgaa gctkggaacg tgcacactga 480
tttcatccct caacaccaca aacagttgtt gctcagtcgg aaggctgcag caaagagtct 540
ttatgccagg cagccctggg tctcatcctc aaggagaaag ccatgaccga cactttcact 600
cttcaggcac atgatcaatt ctctccattt tcgtctagca gtggaagaag actgaatatc 660
tcgtatacca gaaacatgac tcttaaagat ggtaaaaaca gttttcgtct cctcggataa 720
tcaaccattt ccatactcat gtaatctagg catactctgg agttattaca ggtttggttc 780
cagaccacta caataaaatg tagccatagc tgtaacgtat aaccatgatg ggtcttatag 840
catgcagatt gaagaaaact ttccaagtcc ttgggtaatc tttacagccg agggagactg 900

cacttacctg aaatgttccg ttaatgggag ttgc 934

<210> 5208
<211> 934
<212> DNA
<213> Homo sapiens

<400> 5208
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ggctgcttct ggtggctatg tgaacatcat caaaatatta ctaaatgcag gagctgagat 120
taactctaga actggtagca aattgggcat ctctcctctg atgttagcag ctatgaatgg 180
gcatacagct gctgttaagc tcctgttaga catgggctct gacataaatg ctcagataga 240
aaccaatcgg aacactgccc ttactttagc ctgcttccaa ggaagaactk aagtggttag 300
tcttctgctt gatagaaaag caaatgttga acacagagct aagactggtc tcacaccayt 360
aatggaggct gcctctggtg gatatgcgga ggtggccgag ttcttttgga taaagatgct 420
gatgttaatg ccctccagtt cctcctcaag agatacagct ttaaccatag cagcagataa 480
gkgcattaca aattctgtga gcttcttatt ggcaggggag ctcatattga tgtacgtaac 540
aagaagggga acactccatt gtggctagca gcaaatggtg gacacctcga tgtggttcag 600
ttactggtgc aagcaggtgc agatgtggat gcagcagata accgcaagat aactcctctt 660
atggcagcat ttagaaaggg tcatgtgaag gtggtgcgct acttagtcaa agaagtcaat 720
cagtttccat cagattctga atgtatgaga tacatagcaa ccatcactga taaggagatg 780
ctgaagaagt gtcatctttg tatggagtca atagtacaag ccaaagatag acaggctgct 840
gaagcaaaca aaaacgccag cattttgtta gaggagttag acttggaaaa gttaagggaa 900
gaaagtcgga ggctggcttt ggctgcgaaa agag 934

<210> 5209
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5209
gcgggcacgg cggtggctcg gtctcccggc tgcgcgcgga gcgggagggc tctcctcaca 60
caagcgcttc cttgccgaga ggctggagct gcggcaccgc aggcctgagc cacccccttct 120
ctgctgtctc cttctcttcc tcagggctcc cgtgtctgct cgccctccga cgctgctcag 180
actatggaaa tgatgttaga caaaaagcaa attcaagtga ttttcttatt caagttcaaa 240
atgggtcata aagcagcaga gacaactcgc agcatcaaca atgcatttgg cccagaaatt 300

<210> 5210
<211> 711
<212> DNA
<213> Homo sapiens

<400> 5210
ccccttcctt ctgtctctgg agacccttga gcttggggaa atatggaggg gtgtgtgtct 60
gcaatcaagg cctctgcagc tcacggctgg cccggtgggc tgggacttcc gtctgaattt 120
taaatactta gggttcattt ttttttctct gggcaacaaa gcttgatgtt ttcactgctt 180
tagtttcctg tttgctggtg ggaggggata cggtctgtga ctctggactt gctctggggg 240
aacagttgtc actgcccccg gggagagggg cagcttgggc tggagaagca cagccagaga 300
cagagcccct cgagagggat ccttggctgc ttcattgtct tccccccagc aagccctgct 360
ctccacaggc acctctgggg tcttggtatg gtccccgctc acctccttcc agagtcctga 420
gtggtgtggg tgtgggtggc acaggatctg gggcatggga ggggttcaga gcttcccaga 480
gccccgtgtc ctggcagact cagctggtgg gctggggtgt taaccccagt cctggcgtag 540
gtttacagac tctcaaggta cgttggccct ggtctcctgg gagagagggg tgagggatgt 600
cccctaccaa agcacaaggt gggatcaggc tgcctcctgg gttgggtgtc gggggagctg 660
tccggcagcc tggcagggag atgcaagggc taaagtaaaa ttttgtcaag t 711

<210> 5211
<211> 839
<212> DNA
<213> Homo sapiens

<400> 5211
tcaaggccta cgaacaggtg atgcactacc ccggctacgg ttcccccatg cctggcagct 60
tggccatggg cccggtcacg aacaaaacgg gcctggacgc ctcgcccctg gccgcagata 120
ccttcctact accaggggggt gtactcccgg ccccatttat gaactcctct taagaagacg 180
acggcttcag gcccggctaa ctctggcacc ccggatcgag gayaagtgag agagcaagtg 240
ggggtcgaga ctttggggag acggtgttgc agagacgcaa gggagaagaa atccataaca 300
cccccacccc aacaccccca agacagcagt cttccttcac ccgctgcagc ygttccgtcc 360
caaacagagg gccacacaga taccccacgt tctatataag gaggaaaacg ggaaagaata 420
taaagttaaa aaaaagcctc cggtttccac tactgtgtag actcctgctt cttcaagcac 480
ctgcagattc tgatttttt gttgttgttg ttctcctcca ttgctgttgt tgcagggaag 540
tcttacttaa aaaaaaaaaa aaattttgtg agtgactcgg tgtaaaacca tgtagtttta 600
acagaaccag agggttgtac tattgtttaa aaacaggaaa aaaaataatg taagggtctg 660
ttgtaaatga ccaagaaaaa gaaaaaaaaa gcattcccaa tcttgacacg gtgaaatcca 720
ggtctcgggt ccgattaatt tatggtttct gcgtgcttta tttatggctt ataaatgtgt 780
attctggctg caagggccag agttccacaa atctatatta aagtgttata cccggtttt 839

<210> 5212
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(603)
<223> n = A,T,C or G

<400> 5212
agaaagtgct agcacagttt gtgttgtgga tttgctactt ccatagttta cttgacatgg 60
ttcagactga ccaatgcatt tttttcagtg acagtctgta gcagttgaag ctgtgaatgt 120
gctaggggca agcatttgtc tttgtatgtg gtgaattttt tcagtgtaac aacattatct 180
gaccaatagt acacacacag acacaaagtt taactggtac ttgaaacata cagtatatgt 240
taacgaaata accaagactc gaaatgagat tattttggta caccttttctt tttagtgtct 300
tatcagtggg ctgattcatt ttctacnttn aancagnggg ttttctgacc angaatatgg 360
ctnggatttt ttngaaagta caaaangcca catagttttt ccagaaaggt ttcaaaactc 420
ccaaagatta acttccaact tataagtttg ttttttatttt caatctatga cttgactggg 480
tattaaagcc gctatttgga tagtaattaa atatggtggt cattgatata aaccngtttg 540
gggtcagcaa accaacctaa atggatggcn aagaccgngg gtttaatttt cccggtgggg 600
gtg 603

<210> 5213
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5213
ccaaggcgca gcccgattct gccccctacg attggttcgg ggacttctcc tccttccgtg 60
ccctcctaga gccggagctg cggcccgagg accgtatcct tgtgctakgt tgcgggaaca 120
gtgccctgag ctacgagctg ttcctcggag gcttccctaa tgtgaccagt gtggactact 180
catcagtcgt ggtggctgcc atgcaggctc gctatgccca tgtgccgcag ctgcgctggg 240
agaccattga tgtgcggaag ctggacttcc ccagtgcttc ttttgatgtg gtgctcgaga 300

<210> 5214
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

<400> 5214
gagaagctga ccttggacct gacggtgctc ctgggtgtgc tgcaggggca acagcagagc 60
ctacagcagg gggcacactc caccggctcc agccgcctgc acgacctcta ctggcaggcc 120
atgaaaaccc tgggagtcca gcgccccaag ttggagaaga aggatgccaa ggagatcccc 180
agtgccaccc agagccccat cagtaagaag cggaagaaaa agggattctt gccagagacg 240
aagaagcgca agaaacgcaa gtcagaggat ggcacgccag cggaggatgg cacacctgca 300
gccaccggcg ggagccagcc ccncagcatg ggcaggaaga agaggaacag gacaaaggct 360
aaggtcccag cccaggcaaa cgggacgcca accaccaaga gtccagcccc tggcgcccnc 420
acccggagcc ccagcacccc tgccaaatcc ccaaaactgc agaagaaaaa ccagaagccg 480
tcccaggtga at 492

<210> 5215
<211> 1011
<212> DNA
<213> Homo sapiens

<400> 5215
gcaaggcgcc gggggacacg ttggctgcgt tttcggcgga ctggccgggt acaaaaatgg 60
ctgtggctag cgatttctac ctgcgctact acgtagggca caagggcaag tttgggcacg 120
agtttctgga gttcgaattt cggccggacg gaaagcttag atatgccaac aacagcaatt 180
acaaaaatga tgtgatgatc agaaaagagg cttatgtgca caagagtgta atggaagaac 240
tgaagagaat tattgatgac agtgaaatta caaaagaaga tgatgctttg tggcctcccc 300
ctgatagggt tggccgacag agcttgaaat tgtaattgga gatgagcaca tatcttttac 360
cacatcaaaa ataggttctc ttattgatgt aaatcagtca aaggatcctg aaggccttcg 420
agtattttac tatttggtac aagacttgaa atgtttagtt ttcagtctta ttggattaca 480
cttcaagatt aaaccaattt aaattgtatg ttttcaggct gtttgtatat ttaattaagg 540
gatgggaggg gttatttgtc atttacagta ttggggtttt tatgaatgtg aagcaaacaa 600
aaaaaatttg tatgtaaact gaaaataaga aaatacatta gcaagcttaa tggttatcct 660
tacttgagtc cacatgggtt ggacagtccc cacacacatt aaattctgta aatgaaagcc 720
acctttttgtt aaaaatttgc tctaataaaa cataccaaat cctggttgca gagtagtttt 780
ttgtttttttc caggaggcta tgtctctaat tcactttaga gataataaga aattgttctg 840
gtagatatat cctgtgacag aagatacttt aggtggaact atgtagccag attcccatcc 900
atgaaaggca agtgtagatt gtcccttatt tccttcatac atgattggat ttaattttgg 960
ggggcttata caaggtctag ttttttttta cagttatgac aaacccctca g 1011

<210> 5216
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5216
gcaacgtgtg cggtcgggcg attccggagc ccctgcgtgg aggaactgct gggcgggagg 60
agacgccggc ggctcgggcg atggctgacc gcacacgttg ccaccctgag gtctttctgg 120
aagtggatat ctactcagac agtaagaatt ataagagctg taagagctca ttttggagga 180
ataatggatg aaccatctcc cttggcccaa cctctggagc tgaaccagca ctctcgattc 240
ataataggtt ctgtgtctga agataactca caggatgaga tcagcaacct ggtgaagttg 300

<210> 5217
<211> 1544
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1544)
<223> n = A,T,C or G

<400> 5217
cgggactggt accaccgcat cgaccccacc gtgctgctgg gcgcgctgcg cgttgcggag 60
cttgacgcgc cagctggtac aggacgagaa cgtgcgcggg gtgatcacca tgaacgagga 120
gtacgagacg aggttcctgt gcaactcttc acaggagtgg aagagactag gagtcgagca 180
gckgcrscgw srgcacagta gacatgactg ggatccccac cttggacaac ctccagaagg 240
gagtccaatt tgctctcaag taccagtcgc tgggccagtg tgtttacgtg cattgtaagg 300
ctgggcgctc caggagtncc actatggtgg cagcatacct gattcaggtg cacaaatgga 360
gtccagagga ggctgtaaga gccatcgcca agatccggtc atacatccac atcaggcctg 420
gccagctgga tgttcttaaa gagttccaca agcagattac tgcacgggca acaaaggatg 480
ggacttttgt catttcaaag acatgatgta tggggattag aaagaactca agacactcct 540
gcttgataca gaacaaaaag agcttaacag gaccaacang gcttaagccc agacttgacg 600
taacagaaat gtgccaatag gtaataggta atttttcttt ctctgacttg ttttgttttc 660
ttgaaataac actgttgtgt ggctagaaag gaaaagattt agtgtggctt gtattcaygg 720
gatacaggac agggatgggg ctatcatctt ttcttgaata gggctaaaga agtattttaa 780
caaaaatcta ttatgtacct aatattgtgc ctaataatat ttagcaccac aactcaaaaa 840
acatttagca cttgaaaaaa ggagactcac ctctggctct ttgccactgt cagaatctga 900
atctcactgg ccctgtggag tagggatcct atctggagaa gtgggagcat gggctgcagt 960
caggactgct gcagactgag ccatgtgatg gtacgtaatg agttcccctg agggaatgaa 1020
acacccccct cacccttca aagtcacccc tttggaattc aacacagaca cacatatccc 1080
ttcaaaaact tttatttgta tcaacagttc ctagctcttg acttagctta gagcttttaa 1140
aagagcagac accttatata tttgagattg aaaaagtttc tgctattaat cagaaataat 1200
catttctatt ttctggctta ccccttggaa taagccaaaa ataaaaccaa agttacattt 1260
cctgacagat ggctaagaaa acaatagaag gaacatcctg aattctagag ttgactcttg 1320
ctggtgaagt acaccttcag gcttaggtcc attctcctaa gtaaagcctg aaggaaaact 1380
cttaacacct aattctttgt gggaaaaatg atcaactagg ccatttcaca ggctwtagaa 1440
cmaaagtacm attgggcatc tttccytatg tcckgggatc aggggwgctt acatttaaca 1500
ttgatcaggt aaagaggaga ggctgtgcta aggtctgaga aaag 1544

<210> 5218
<211> 948
<212> DNA
<213> Homo sapiens

<400> 5218
ggctagcgat ttctacctgc gctactacgt agggcacaag ggcaagtttg ggcacgagtt 60
tctggagttc gaatttcggc cggacggaaa gcttagatat gccaacaaca gcaattacaa 120
aaatgatgtg atgatcagaa aagaggctta tgtgcacaag agtgtaatgg aagaactgaa 180
gagaattatt gatgacagtg aaattacaaa agaagatgat gctttgtggc ctccccctga 240
tagggttggc cgacaggagc ttgaaattgt aattggagat gagcacatat cttttaccac 300
atcaaaaata ggttctctta ttgatgtaaa tcagtcaaag gatcctgaag gccttcgagt 360
attttactat ttggtacaag acttgaaatg tttagttttc agtcttattg gattacactt 420
caagattaaa ccaatttaaa ttgtatgttt tcaggctgtt tgtatattta attaagggat 480
gggaggggtt atttgtcatt tacagtattg gggtttttat gaatgtgaag caaacaaaaa 540
aaatttgtat gtaaactgaa aataagaaaa tacattagca agcttaatgg ttatccttac 600
ttgagtccac atgggttgga cagtccccac acacattaaa ttctgtaaat gaaagccacc 660
ttttgttaaa aatttgctct aataaaacat accaaatcct ggttgcagag tagtttttg 720

tttttccag gaggctatgt ctctaattca ctttagagat aataagaaat tgttctggta 780
gatatatcct gtgacagaag atactttagg tggaactatg tagccagatt cccatccatg 840
aaaggcaagt gtagattgtc ccttatttcc ttcatacatg attggattta attttggggg 900
gcttatacaa ggtctagttt ttttttacag ttatgacaaa cccctcag 948

<210> 5219
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5219
gctgggagta taggctgagt taggaagatt gcttgagccc ggaaggcaga agttgcagtg 60
agccaagatc gcgccactgc actcccaact ggacgacaaa gcgagatact gggagtatag 120
gcattcgcca ccctgggcaa catagcaaga ccctgtgtct acaaaaaatt taaaaaaaat 180
tagcctgtag ccctagctat gcaggaggtg gaggtgggag aattgcttga acccaggagt 240
ttgaggttac agcgagctgt gatagcacca ctgcactcca gcctgggcca cagagcaaga 300

<210> 5220
<211> 1043
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1043)
<223> n = A,T,C or G

<400> 5220
taaaaaacca ccttttgttc gaaactccct ggagcgacgc agcgtccgga tgaagcggcc 60
gtccccaccc ccacatcctt cctcggtcaa gtcgctgcgc tccgagcgtc tgatccgtac 120
ctcgctggac ctggagttag ascwssaggc gacaagaacc tggcacagcc aattgaccca 180
ggagatctcg gtgctgaakg agctcaagga gcagctggaa caagccaaga gccacgggga 240
gaaggagctg ccacagtggt tgcgtgagga ckagcgtttc cgcctgctgc tgaggatgct 300
ggagaagcgg cagatggacc gagcggacac aagggtgagc ttcagacaga caagatgatg 360
agggcagctg ccaaggatgt gcacaggctc cgaggccaga gctgtaagga acccccagaa 420
gttcagtctt tcagggagaa gatggcattt ttcacccggc ctcggatgaa tatcccagct 480
ctctctgcag atgacgtcta atcgccagaa aagtatttcc tttkttccay tgaccaggct 540
gtgaacattg actgtggcta aagttattta tgtggtgtta tatgaaggta ctgagtcaca 600
agtcctctag tgctcttgtt ggtttgaaga tgaaccgact ttttagtttg ggtcctactg 660
ttgttattaa aaacagaaca aaaacaaaac acacacacac acaaaaacag aaacaaaaaa 720
aaccagcatt aaaataataa gattgtatag tttgtatatt taggagtgta tttttgggaa 780
agaaaattta aatgaactaa agcagtattg agttgctgct cttcttaaaa tcgtttagat 840
tttyytsgtt gtacagctcc acctttttaga ggtcttactg caataagaag taatgcctgg 900
gggacggtaa tcctaatagg acgtcccgca cttgtcacag tacagctaat ttttcctagt 960
taacaatttg tcatattamm mmntgcacag ammaccattg gggggggattc agaggtgcat 1020
ccacccggn tcttcttgag ctg 1043

<210> 5221
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(796)
<223> n = A,T,C or G

<400> 5221
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cgaggaacac agctctgggg gaatggtgtc atccwcstgc gytttaaaaa taagcacatg 120
atggctgggc accgtggctc acgcctgtaa tcccagcact ttgggaggct gaggcgggtg 180
gwtcacctga ggtcgggagt ttgagaccag cctggccaac atggtgaaac cccatcgcta 240
ctaaaawtat aaaaaattag ctgggcatgg tggcgcacgy ctgtagttcc agctactcag 300
gaggctgagg caggagaatc gcttgaaccc gggaggtgga ggttgcagtg agctgagatc 360
gcaccattgc actcccacct gggcaacaaa gagtgaaact tggtctcaga aacgaaacaa 420
aacacaaaaa cctttctcag tcccagcata tgtggagcag cctcattctt catagctgtg 480
tgtcattccg ttgcgtgatg gggtcacaga gcacagacct ggtgcccttt tccttttaa 540
tatgtggaaa cccctccatg ctttccaaag cctacaagta cagcagcccc aagtttaggg 600
tgagcagcag tggtcagagc tctttactat tacttttggg caaacgcaag ccaggctggc 660
aaccaccact gccgccgagg ggagatacaa gcaggccagt ttcacactyt gggacktta 720
gtttctttct tacatctaga aggtgggcct ctkgttattc cantttaaag gcagcccaag 780
ggaantgttc agnaaa 796

<210> 5222
<211> 328
<212> DNA
<213> Homo sapiens

<400> 5222
ataaggcagt ctctcaaaag tcatactgcc agagtctcta gggcaaggag aaacaactag 60
ctggacaata ctcaattcac aacttagcat tttgccatct gaagcttggc aaactagtat 120
ctgctgtaaa acaacctata tggtatgtga accgtagtat tcctgagcaa aacgtggctt 180
tcatcgcttt gtaaaaattt gcatctgttt agaaactagc ctataaaata tcaccattgg 240
atgtagatat ggagagaaaa gaaatatgtt gggtttattg cttagcgaaa tattctcttt 300
ttatttaaat aaaatgttct tcattgtg 328

<210> 5223
<211> 302
<212> DNA
<213> Homo sapiens

<400> 5223
ggaagagctc gtcttggagt ccaagctttt gccacttcaa ttgcaccagc tccaggaacc 60
atacaaccat cttcaatkgc atttttgata gcacgaagtc catctcttat ggcatccttg 120
acttgtgtga gagtcatgct ttatttggtc ctttaaccaa caaggtaaca gagcaagggt 180
taacacactc ctcaataaaa gtgaactttt cttcacctaa tgtatactca tacacaagac 240
cagcatgtcc caagcaatct acagtgagat cttcaaaaga attcacggcc attccaccac 300
aa 302

<210> 5224
<211> 551
<212> DNA
<213> Homo sapiens

<400> 5224
gcagtacgtg tgccgtgagg ctcatagttg atgagggact ttccctgctc caccgtcact 60
cccccaactc tgcccgcctc tgtccccgcc tcagtccccg cctccatccc cgcctctgtc 120
ccctggcctt ggcggctatt tttgccacct gccttgggtg cccaggagtc ccctactgct 180
gtgggctggg gttgggggca cagcagcccc aagcctgaga ggctggagcc catggctagt 240
ggctcatccc castgcattc tccccctgac acagagaagg ggccttggta tttatattta 300
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gccagacacc acccccccacc ccactgtcgt ggtggcccca gatctctgta attttatgta 480

gagtttgagc tgaagccccg tatatttaat ttattttgtt aaacatgaaa gtgcatcctt 540
tccctccaaa a 551

<210> 5225
<211> 555
<212> DNA
<213> Homo sapiens

<400> 5225
gctctgtgac acccttttg tgatcttcag tgctgttttt atggttacac gactaggaat 60
ctatccattc tggattctga acacgaccct ctttgagagt tgggagataa tcgggcctta 120
tgcttcatgg tggctcctca atggcctgct gctgacccta cagcttctgc atgtcatctg 180
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aggaaggatk agwcscwgtr mtgtssactc tttsmkcasc tcmkwsswwk wwkmtrtgmc 300
cgcgggasct gsacarwwws atctcttgca tgtatcgaag gatgatcgca gtgatgtgga 360
gagcagctca gaggaagaag atgtgaccac ctgcacaaaa agtccctgtg acagtagctc 420
cagcaatggt gccaatcggg tgaatggtca catgggaggc agctactggg ctgaagagta 480
aggtggttgc tatagggact tcagcacaca tggactttgt agggccactg gcaaacaata 540
ctcctcttgg gccct 555

<210> 5226
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

<400> 5226
attcaagatg agatttgggt ggggacacag ccaaacccta tcggttgcca acatttacag 60
taacagtgtt aggtgaacag ttgtccagtc tcctgttttg tcggacactg tttctagcac 120
cttccaggca gaatctcatg tatccttcac tttcgaawts ggwacgagka tttcatcccc 180
acttttatca atgagaaact aaagctcgaa gaggtcaagt aagttcctgg ccaaggtcag 240
ctagcaggct ctagaggcct cgttctcctt agaggcaagc cttgccaggg cccaggcttg 300
gcaggctgca gggcaggtgc gggcatgcca tggtagaggt gggaccattg aggctcagag 360
agggtaagtg atgancctg gnacacagcg gggtgggtcc agagtccggc ctgcatcttc 420
tggagctggc cagtggacag gcctttcccg ttcacaagcc cggggctgct gttcccacca 480
agggggggaat gttgccta 498

<210> 5227
<211> 537
<212> DNA
<213> Homo sapiens

<400> 5227
ggatgggtgc cctggagcca ggcaaggcag gaggccccag aaacttggtg ggggagataa 60
cggaggggat ggagcaggag gaatcctgaa aaccggactg ggagagatgk grccsagtgg 120
asgakkyccr staysasmkg gcgtmtgaga ckgaaacatt aattctgaag aagaagaaac 180
tagacagtca gacctccagg actaagatga agtgagccga gaggagatcg tatcataaga 240
atgcttctgt cgttagccgg gtgcagtgct gtgtgtatct agttccagct acttgagagg 300
ctgaggcagg aggattgctt gagtccagaa agtggcagtt gcagtgagtg gagatcgtgc 360
cactgctcwc cagcctgggt ggcagarcga gaccctgtct caaaaaaata acaaaaacaa 420
aatgcttctg tcagttaaca atctttatta gagggttttt agtctttctt tctcagctgt 480
atgttaagtt ggttgacaaa tgcaaataaa cgtctttatt atcctttctt tctgaaa 537

<210> 5228
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(735)
<223> n = A,T,C or G

<400> 5228
ggggcctgag gtgccagggt tcacagacag ggtttcccac cagccacacg caccagctct 60
atttgggggа agtgtagtga ggaggagccc agaggacccc aggggagtga ggagggagaa 120
cttggaaggg tgcagcccac ttccagactc tcccctctcc cacccttcta ccctgtgaag 180
ggaaatgagg gctttagttt cctgggcagg gaggggcagc ttctgaggtt gccaaaggcc 240
cccactggat ggaacctgtt agctgctcct ctccgcagcc agaaatgctg ccggctgcac 300
ccagaggagc agtgaggcag gacagatgga caggttcctc ctgcgctgta attccctgct 360
ccctggagac tgggaaaagg ccgcagnacg ggggactggg cggtggtggc tggtggttta 420
aaggttgaac tttctctgaa gctcctttcc cctttgctct tggtccctgc cccngcaang 480
caaacctgcc ccctctgcct cccagtgcac ccaatgaccc cccttccccc tggggcggac 540
ttcctgattg aagcacaact ccccccgcaag gancccccaag cccacaaggg ttggccataa 600
tttggggcag tttccaagtc ctgtnggctt cggctaatcn tgggggganga agatttttng 660
ggtcttggat ttcccttggg aaattgggtc cttgggcttg gaatntttтc cctaaggggg 720
ccctcttant tcctt 735

<210> 5229
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

<400> 5229
ggctgcctgg ggaaggagaa atctgagcca agacctgaca aatgaatagg agtaagctaa 60
ggaaagtgac tggggtgagt gagttccaaa tggagggaac tgcatgtgca gaggcctgga 120
ggtgagggga acctgggcac attccaggag ctgaagggtt tgttgtggct ggaacataaa 180
gagccaaagg gggccaagca gtgcttcaca cctgtaatcc cagcrctctg ggaggcygag 240
gtgggcagat cacctgaggt caggagttca agaccagcct ggtcaacgtg gtgaaaccct 300
gtctctactn aaaatac 317

<210> 5230
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5230
ggccactccg cctcttccct cccttcgtcc cttcttcctc tccctttttt ccttcttcct 60
tcccctcctc gccgccaccg cccaggaccg ccggccgggg gacgagctcg gagcagcagc 120
caggtagaac tttagacttc atagcactga attaacctgc actgaaagct gtttacctgc 180
atttgttcac ttttgttgaa agtgaccatg tctcaagttc aagtgcaagt tcagaaccca 240
tctgctgctc tctcagggag ccaaatactg aacaagaacc agtctcttct ctcacagcct 300

<210> 5231

<211> 300
<212> DNA
<213> Homo sapiens

<400> 5231
atcagtatga actcttaaaa catgcagaag caactctagg aagtgggaat ctgagacaag 60
ctgttatgtt gcctgaggga gaggatctca atgaatggat tgctgtgaac actgtggatt 120
tctttaacca gatcaacatg ttatatggaa ctattacaga attctgcact gaagcaagct 180
gtccagtcat gtctgcaggt ccgagatatg aatatcactg ggcagatggt actaatatta 240
aaaagccaat caaatgttct gcaccaaaat acattgacta tttgatgact tgggttcaag 300

<210> 5232
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5232
ccggcggctc tggctgcccg gcggttgaga gcatggcctc tccaggggca ggtagggcgc 60
ctccggagtt accggagcgg aactgcgggt accgcgaagt cgagtactgg gatcagcgct 120
accaaggcgc agccgattct gccccctacg attggttcgg ggacttctcc tccttccgtg 180
ccctcctaga gccggagctg cggcccgagg accgtatcct tgtgctakgt tgcgggaaca 240
gtgccctgag ctacgagctg ttcctcggag gcttccctaa tgtgaccagt gtggactact 300

<210> 5233
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(564)
<223> n = A,T,C or G

<400> 5233
gcagcagctc ccaggatgaa ctggttgcag tggctgctgc tgctgcgggg gcgctgagag 60
gacacgagct ctatgccttt ccggctgctc atcccgctcg gcctcctgtg ygcgctgctg 120
cctcagcacc atggtgcgcc aggtcccgac ggctccgcgc cagatcccgc ccactacagg 180
gagcgagtca aggccatgtt ctaccacgcc tacgacagct acctggagaa tgcctttccc 240
ttcgatgagc tgcgacctct cacctgtgac gggcacgaca cctggggcag ttttttctctg 300
actctaattg atgcactgga caccttgctg attttgggga atgtctcaga attccaaaga 360
gtggttgaag tgctccaggg acagcgtggg actttgatat tgatgtgaac gcctctgtgt 420
ttgaaacaaa cattcgagtg gtagggagga ctcctgtctt gttcatctgc ttttccaaga 480
aggctggggt gggaagtaga ggctggatgg gcctgtttcc ggggcttttc cttgagaatt 540
ggctnaggan ggcggcccga aaat 564

<210> 5234
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(596)
<223> n = A,T,C or G

<400> 5234

actcaaagac acgtacatgt tgtccagcac cgtctcctcc aaaatcttgc gggccattgc 60
cttaaaggaa ggttttcatt ttgaggaaac attaactggc tttaagtgga tgggaaacag 120
agccaaacag ctaatagacc aggggaaaac tgttttattt gcatttgaag aagctattgg 180
atacatgtgc tgccctttg ttctggacaa agatggagtc agtgccgctg tcataagtgc 240
agagttggct agcttcctag caaccaagaa tttgtctttg tctcagcaac taaaggccat 300
ttatgtggag tatggctacc atattactaa agcttcctat tttatctgcc atgatcaaga 360
aaccattaag aaattatttg aaaacctcag aaactacgat ggaaaaaata attatccaaa 420
agcttgtggc aaatttgaaa tttctgccat tagggacctt acaactggct atgatgatag 480
ccaacctgat aaaaaaagct gttctttccc acttagttaa aaggcaggcc aaatggattc 540
accttcacct ttggctaatg ggagggcgtg ggcaccntgc ggcaccagtg gggacn 596

<210> 5235
<211> 732
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(732)
<223> n = A,T,C or G

<400> 5235
gcttcgtgtg ctactgcgaa ggggaggaaa gcggggaggg ggaccgcggc ggcttcaacc 60
tctacgtgac cgacgccgcg gagctttgga gcacctgctt cacgccggac agcctggcgg 120
ccctcgtggg taactgggcg ggtctgggag ccgccacacc cctccttgca gtgcagatcg 180
tctatggggc gacagacatc tgggattccc cagaaggctc tgacaccctc tgcccgccct 240
gtagctgtag tcctcccatt ggctagggct cttggggtcg ggcaggtttc gggtgccccc 300
agtggcctcg ggttccaggc agctcgtgac aagcccctgt gctctctaga aagcccgttt 360
tggcctgagt gcggctgagg acatcacccc ccggttcagg gcagcctgtg agcagcaagc 420
tgtggctctg actctgcagg aggacagagc atccctgacg ctttcagggg ggccctcgga 480
ctggcctttg acctctccaa ggtaccaggc ccagaggcag cccccaggct gtgggcgctg 540
acactgggcc tggcaaaacg cgtgtggagc ctggagcgkc gactkgcagc tgcagaagag 600
acagctgtca gcccgaggaa gagcccccgg cctgcagggc ttcagctctt cttaccagac 660
ccagatcccc agagaggttg ccctggacct nggagtcagg atgncggttt ccaggagaat 720
tcgttcatcn aa 732

<210> 5236
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 5236
ctgaaacagg gtcgggatgc cgatgccggc ttggagttag agrkkmgwca ccgctgagag 60
cagctgcagt agctgagyag tggcagcaga gaggcagacg tgagctgagg gcgcagaggc 120
aggcagcatc tctgagggtc cccaaggagc atggctggga gccgtgaggt ggtggccatg 180
gactgcgaga tggtggggct ggggcccacn gggnagagtg gcctggctcg ttgcagcctc 240
gtgaacgtcc acggtgctgt gctgtacgac aagttcatcc ggcctgaggg agagatcacc 300
gattacagaa cccgggtcag cggggtcacc cctcagcaca tggtgggggc cacaccattt 360
gccgtggcca ggctagagat cctgcagctc ctgaaaggca agctggtggt gggtcatgac 420
ctgaagcacg acttccaggc actgaaagag gacatgagcg gctacacaat ctacgacacg 480
tccactgaca ggctgttgtg gcgtgaggcc aagctggacc actgcaggcg tgtctcctgc 540

gggtgctgag tgagcgcctc ctgcacaaga gcatccagaa cagcctgctt ggacacagct 600
cggtggaaga tgcgagggca acgatggagc tctatcaaat ctcccagaga atccgagccc 660
gccgagggct gccccgcctg gctgtgtcag actgaagccc catccagccc gttccgcagg 720
gactagaggc tttcggcttt ttgggacagc aactaccttg cttttggaaa atacattttt 780
aatagtaaag tggctctata ttttctctac gccaaa 816

<210> 5237
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

<400> 5237
agacagagta ctgattggag gggatgaaac tccagagggc cagagagctg tgcaggccct 60
gtgtgctgta tatgagcact gggttcccag agaaaagatc ctcaccacta atacttggtc 120
ttcagagctt tccaaactgg cagcaaatgc ttttcttgcc cagagaataa gcagcattaa 180
ctccataagt gctctgtgtg aagcaacagg agctgatgta gaagaggtag caacagcgat 240
tggaatggac cagagaattg gaaacaagtt tctaaaagcc agtgttgggt ttggtgggag 300
ctgyttccaa aaggatgttc tgaatttggt ttatctctgt gaggctctga atttgccaga 360
agtagctcgt tattggcagc aggtcataga catgaatgac taccagagga ggaggtttgc 420
ttcccggatc atagatagtc tgtttaatac agtaactgat aagaagatag ctattktggg 480
atttgcattc aaaaaggaca ctggtgatac aagagaatct tctagtatat atattagcaa 540
atatttgatg gatgaaggtg cacatctaca tatatatgat ccaaaagtac ctaggggaac 600
aaatagttgt gggatctttc tcatccaggg tgtttcagag ggatgaccaa gtgtccccgg 660
cttcgtgacc atttccaagg atccatatgg aaggcatgtg atgggtgccc catgctgttg 720
tttattttgc actgagtggg gacatgtttt aaggggattt gggattattg gaccgcattc 780
cattaaaaaa atggcttaag nccagccctt tatnctt 817

<210> 5238
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(337)
<223> n = A,T,C or G

<400> 5238
gtgcaccgga gggtgaagac agccctcgcg akgamkgwgg aggcctggkg agcaggcctg 60
accctgtgry rswrcwksag gctgcggtga agcgggccga ccacctggag gagctgctgg 120
agcarmmcag gaggcccacg mcaagtacca agtgaccagg gatgccggga acactgtcga 180
agaacggaag gcagaggaca gaggctggac gttggcccag agcagagaga cgnccacctg 240
ccccccacag aggctggtgg ttnagatgcc cacggttaag cacctgtggc ttgcattttt 300
aaacagttaa aaggaggccg ttgttttcag cgccttt 337

<210> 5239
<211> 570
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(570)
<223> n = A,T,C or G

<400> 5239
gacttctgaa gaacatgaag caagcagaag ggtgaaagcg gagctgctgg ttcagatgga 60
tggtgttgga ggtacttctg aaaatgatga cccttccaaa atggttatgg ttctggcagc 120
tactaatttt ccctgggata tagatgaggc tttaagacga cgccttgaga aacgaatcta 180
tattcctttg ccgtcagcaa aaggcaggga ggagctatta cgaataagtc tacgtgagtt 240
ggaattggct gatgatgttg accttgcaag tatagcagaa aacatggaag gttattcagg 300
tgcggacatt accaacgtgt gcagggatgc gtccttgatg gcaatgagaa ggcgcattga 360
aggtttgact ccagaggaaa tccgaaatct ttccaaagaa gaaatgcaca tgcctacaac 420
tatgggagga tttcgagatg gctttaaaaa aggtttctaa gtncagtgtt cttgctggca 480
gacatttgaa aggttacggg gaatgggtat tttgagtttg ggtccntgct aaatttntca 540
cctgtaaact gttgaggaat gtgccttaag 570

<210> 5240
<211> 907
<212> DNA
<213> Homo sapiens

<400> 5240
agccaatgtg cttgcaagtg tacagatctg tgtagaggaa tgtgtgtata tttacctctt 60
cgtttgctca aacatgagtg ggtatttttt tgtttggttt ttttgttgtt gttgtttttg 120
aggcgcgtct caccctgttg cccaggctgg agtgcaatgg cgcgttctct gctcactaca 180
gcacccgctt cccaggttga agtgattctc ttgcctcagc ctcccgagta gctgggatta 240
caggtgccca ccaccgcgcc cagctaattt tttaattttt agtrgagaca gggttttacc 300
atgttgscca ggctggyctt gaactcctga ccctcaagtg atctgcccac cttggcctcc 360
ctaagtgctg ggattatags cgtgagccac catgctcagc cattaaggta ttttgttaag 420
aactttaagt ttagggtaag aagaatgaaa atgatccaga aaaatgcaag caagtccaca 480
tggagatttg gaggacactg gttaaagaat ttatttcttt gtatagtata ctatgttcat 540
ggtgcagata ctacaacatt gtggcatttt agactcgttg agtttcttgg gcactcccaa 600
gggcgttggg gtcataagga gactataact ctacagattg tgaatatatt tattttcaag 660
ttgcattctt tgtcttttta agcaatcaga tttcaagaga gctcaagctt tcagaagtca 720
atgtgaaaat tccttcctag gctgtcccac agtctttgct gcccttagat gaagccactt 780
gtttcaagat gactactttg gggttgggtt ttcatctaaa cacatttttc cagtcttatt 840
agataaatta gtccatatgg ttggttaatc aagagccttc tgggtttggt ttggtggcat 900
taaatgg 907

<210> 5241
<211> 1184
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1184)
<223> n = A,T,C or G

<400> 5241
gcaagatccc tccacctgtc attatggtgc aaaatgtgag cttcaagtat acaaaagatg 60
ggccttgcat ctacaataat ctagaatttg gaattgacct tgacacacga gtggctctgg 120
tagggcccaa tggagcaggg aagtcaactc ttctgaagct gctaactgga gagctactac 180
ccacagatgg catgatccga aaacactctc atgtcaagat agggcgttac catcagcatt 240
tacaagagca gctggactta gatstmtcrc ctttggagta catgatgaag tgctacccag 300
agataaagga gaaggaagaa atgaggaaga tcattgggcg atacggtctn actgggaaac 360

aacaggtgag cccaatccgg aacttgtcag acgggcagaa gtgccgagtg tgtctggcct 420
ggctggctgg cagaaccccc acatgctctt cctggatgaa cccaccaatc acctggatat 480
cgagaccatc gacgccctgg cagatgccat caatgagttt gagggtggta tgatgctggt 540
cagccatgac ttcagactca ttcagcaggt tgcacaggaa atttgggtct gtgagaagca 600
gacaatcacc aagtggcctg ggagacatcc tggcttacaa ggagcacctc aagtccaagc 660
tggtggattg aggagcccca gctcaccaag agkacccaca acgtgtgagc cytytacctg 720
ggttcgggtc aggagctcca tcntgggaac taacagctgc taacctgacc agccgctcag 780
gacaggaccc tggggctaca ctcctgcatt gctgcaatac tgctccccca gcctctcccc 840
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tcctgtcctc cttccagtta catctgtcca tgtctggact cggctggccg ttccctccag 960
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agggggccc aactgatttg gcctgcggag gagcttagga tcctcgtttt ctgggttttg 1080
gtgatgttgg aggagtaccc cccagcccac cgccccgatt ccttttgct tctggtttgg 1140
agctccggac caggaccttc gtcctggtna gtttttaaat aatt 1184

<210> 5242
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

<400> 5242
gtaaaccttc cccagtccta tcagagcaaa ctttctgggg ttgcatcccc tcagaaaccc 60
atttggggcc caatctcaat gcacatatca gtgcgcaaag cactaaaatt ccaggcaaca 120
ctttgtattg agagaagcca aaattttggt cmsgccctgg gacatctaaa gtcaccaatg 180
taactacacc atacagatta aaccctcaca tgatcatgta agctatgcag ttacccaagc 240
tgcatcattt agaaaacctg tacagttttt atggaaacca tccctagtca aggacacttt 300
aaatatatag tctaaatacc gttaaggtag gcccactagc tgtgttcaca ttttcccttg 360
gncaccttac caggggactt tta 383

<210> 5243
<211> 1278
<212> DNA
<213> Homo sapiens

<400> 5243
cacctgtgct tgcagccagg tcaggcccag ctgcagccca ggcaggagca gtcgcctttc 60
ccacccacag cgctggccac agggctccct gcagggtcag ggaccagacc acgcccagag 120
gaggggaggc actggccccc gccacaggac tggagacgca agaacaaaaa gaaccaagta 180
gagagagtgg agctgcttta ttgcccttgg agcccgcgct ctcggaggct gtcttctgtc 240
gccaagggtc ccggaccgag tacacagtgg cagctggctt agttggtgga cggcytggss 300
cactcgacgt tgaggatgag gtggtcgtag ccaaagccgg acaccccggc aatggcacgc 360
gcagsatcct cgcggcggtg gaagctgatg aaggcraagc ccttggattg gccagtggtc 420
ttgtccttag ccaggtagat gcgggagatg gagccgaaag gcsggaagag ctcctgcagg 480
tcggtctcac gcgtgtcctc tgacaagttg gtgacacgga tggtggcgtt gtcgtcggct 540
ctgcggttgg gctgcatgga ctccccgcgg cggctggccc cgtcgcgmag gctcggcggm 600
acatacttcc ctgtcttgtt ctgcgtggcc tgcacgggct ctagctctcc cggcagcttc 660
tccttctcgc cagtaracag gcccagctgc tcggccagct ccttctgcat gggccccagc 720
gtatccttgt aggggcagcg ggtggtccag tggtcgccct tgcagatgcg gcaggacacg 780
atcttctggc ccttgagttt gttcataggg tcctcctcct cctggcagtt caggtcctct 840
ttgctggtga tgaacgtcat agagacatcg tcactgacag tggtggtggc cacattgggt 900
ccgggggggt caaactctga gttcccgaac ttcttccagt tcttcctcct tgcgacagcc 960

tttgaagcct tccgggtctc aatcctgaag gtgcggacaa tcttgaactt cttgccatcc 1020
tcatttttcta tcttgtactc tgtcactgtc tttatgtttc cgttgatgac ctccttggga 1080
ggcggcagtg gagctcccgg cagtagctct ggctctgggc tggtgtcacc tgtggccaga 1140
gggatcccct tgaggagctc gctggtgaca catttgtcgt cctccccctc ctcctccacc 1200
tggtcggccc aactgggctt cgaatyaaag tctccagtag gcatcgcaaa aagtattctc 1260
cacgcagccc aagcccgg 1278

<210> 5244
<211> 300
<212> DNA
<213> Homo sapiens

<400> 5244
ttgagacgga gtttcaccat gttggccagg atggtcttca acttctaact tcgtgatcca 60
cgctgctggg attacaggtg tgagccaccg cgtgtggcct ctgggcacct tttgaagctg 120
aagcagagag agaaggcggc aggcatcagc gttttcttct atgaacttat aagatcaaag 180
actttaagac tttcactatt tcttctaccg ctatctacta cgaacttcaa agaggaacca 240
ggagtacgga aggagcatga aagtggacaa ggaacgtgac cattgaagca ccacagggag 300

<210> 5245
<211> 496
<212> DNA
<213> Homo sapiens

<400> 5245
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INTERNATIONAL SEARCH REPORT

Int tional Application No
PCT/US 99/01619

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/12 C07K14/47 C07K16/18 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12N C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CARMECI ET AL: "Identification of a gene (GPR30) with homolgy to the G-protein -coupled receptor superfamily associated with estrogen receptor expression in breast cancer" GENOMICS, vol. 45, no. 3, 1 November 1997 (1997-11-01), pages 607-617 17, XP002099963 see page 608, left-hand column, paragraph 3 abstract --- -/--	1-8

[X] Further documents are listed in the continuation of box C. [ ] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
2 July 1999	08. 11 99
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lonnoy, O

3

Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YEATMAN ET AL: "Identification of genetic alterations associated with the process of human experimental colon cancer liver metastasis in the nude mouse" CLINICAL & EXPERIMENTAL METASTASIS, vol. 14, no. 3, May 1996 (1996-05), pages 246-252 252, XP002099961 abstract	1-8

X	YEATMAN T ET AL: "Identification of a differentially-expressed message associated with colon cancer liver metastasis using an improved method of differential display" NUCLEIC ACIDS RESEARCH, vol. 23, no. 19, 1995, pages 4007-4008, XP002099962 the whole document	1-8

A	RADINSKY ET AL: "Level and function of epidermal growth factor receptor predict the metastatic potential of human colon carcinoma cells" CLINICAL CANCER RESEARCH, vol. 1, no. 1, January 1995 (1995-01), pages 19-31 31, XP002099964 the whole document	

A	BALDI ET AL: "Differential expression of the retinoblastoma gene family members pRb/p105, p107, and pRb2/p130 in lung cancer" CLINICAL CANCER RESEARCH, vol. 2, no. 2, July 1996 (1996-07), pages 1239-1245 45, XP002099965 the whole document	

A	OKAMURA K ET AL: "Endogenous basic fibroblast growth factor-dependent induction of collagenase and interleukin-6 in tumor necrosis factor-treated human microvascular endothelial cells" JOURNAL OF BIOLOGICAL CHEMISTRY., vol. 266, no. 29, 15 October 1991 (1991-10-15), pages 19162-19165, XP002108129 figure 5	

INTERNATIONAL SEARCH REPORT

ırnational application No.
PCT/US 99/01619

Box I bservations where certain claims were found unsearchable (Continuation of item 1 f first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION SHEET

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
see invention 1.

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Invention 1: claims 1-8
A library of polynucleotides comprising the sequence information of at least one of the sequences 1-3544, 3546-4510, 4512-4725, 4727-4748 and 4750-5252.

2. Invention 2: claims 9, 11-14 all partially
The isolated nucleic acid with SeqIdNo:1, sequences with at least 90% sequence identity therewith and degenerate variants thereof, host comprising said nucleic acid, peptide encoded by said nucleic acid, antibody against said protein, vector comprising said nucleic acid.

3. Inventions 3-5253: claims 9-21, all partially, as far as applicable
As invention 2, and, when applicable, a method for detecting the differential expression of said nucleic acid, but limited respectively to the SeqIdNo:2-5252.